

GV STRATUS 5.0 (SP1)

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Release Notes

GV STRATUS Version 5.0 (SP1)

- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 5.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.
 - Updates for MOS Redirection workflow in GV STRATUS Operation section. For more details, refer to [Using GV STRATUS with ENPS](#) on page 1071 and [Configuring MOS Redirection workflow with ENPS](#) on page 1078.
 - Updates to GV STRATUS Control Panel settings reference section. For more details, refer to [Audio Tag Management settings](#) on page 298.

GV STRATUS Version 5.0

- **Quotas** — GV STRATUS supports the ability to view disk space quotas that had been reserved for specific K2 bins. For more details, refer to [The Dashboard tool](#) on page 337 and [About application status](#) on page 758.
- **Live Advanced Logging** — Add markers instantly to still recording assets via Live Mode in the Advanced Logging tool. For more info, refer to [Logging assets in Live Mode](#) on page 1040.
- **64 channels Audio Support** — GV STRATUS supports the media workflow of assets up to 64 audio tracks on high resolution clients. For more info, refer to [Using the Audio Overlay](#) on page 934.
- **Audio Tags and scalable Audio Meters** — The display of audio tags and audio meters can be configured and customized for the GV STRATUS system. For more info, refer to [Mapping audio channels](#) on page 1145 and [Configuring Player User Preferences](#) on page 808.
- **Copy of metadata** — GV STRATUS supports the copy of asset's metadata for users assigned with the Copy Metadata role. For more info, refer to [Copying asset metadata](#) on page 816.
- **Import of Thumbnails** — GV STRATUS supports the import of thumbnails for assets. For more info, refer to [Importing image file as thumbnail of an asset](#) on page 810.
- **Assignable High Resolution Thumbnails** — High resolution thumbnails can be assigned to assets in the GV STRATUS application. For more info, refer to [Changing the thumbnail of an asset](#) on page 810.
- **Restore assets from keywords** — GV STRATUS supports the restore of archived assets from keywords. For more info, refer to [Restoring assets from keywords](#) on page 920.
- **GV Log Viewer** — A new Grass Valley log monitoring application with the capability to view and monitor all GV STRATUS machines. For more info, refer to [Working with GV Log Viewer](#) on page 429.
- **Move growing files** — GV STRATUS supports the move of growing files between K2 Summit bins. For more info, refer to [Transferring between bins using drag and drop](#) on page 904.
- **Export EDIUS Markers and Keywords** — EDIUS supports the ability to export markers and keywords into GV STRATUS. For more details, refer to [Sending EDIUS sequences with markers and keywords to GV STRATUS](#) on page 980.

- **Restore of archived asset in EDIUS Workgroup** — EDIUS Workgroup supports the ability to restore archived assets from GV STRATUS system. For more details, refer to [Restoring archived assets in EDIUS](#) on page 977.
- **Custom metadata for Markers and Keywords** — GV STRATUS supports custom metadata for markers and keywords in the GV STRATUS plug-in for Adobe® Premiere® Pro CC . For more details, refer to [Viewing asset metadata](#) on page 1011.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 5.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.

Not supported in this GV STRATUS release

The following devices and functionality are not supported with this version of GV STRATUS software. Check with your Grass Valley representative regarding availability.

- **Missing Material List role** — This role in GV STRATUS Control Panel License Management settings is for use by Grass Valley personnel for testing purposes only. Do not assign this role to users or groups.
- **ProRes, H.264 and 1080p formats** — GV STRATUS does not support the media workflow of assets in ProRes, H.264 and 1080p formats in this release.
- **Quota for EDIUS** — Quota limit on K2 Summit system is only applicable for the K2 media folders.
- **Archive/Restore for assets with 64 audio tracks** — Archive/Restore and partial file restore operations are not supported for assets with 64 audio tracks for these archive vendors:
 - SGL FlashNet
 - Masstech (for GXF format)

Changes and features in previous releases

The following sections describe changes and features in past releases.

GV STRATUS Version 4.8 (SP2)

- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 4.8 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.

GV STRATUS Version 4.8 (SP1)

- **RMI support of XDCAM XAVC format** — GV STRATUS supports the ability to ingest assets in XDCAM XAVC format via the RMI tool. For more details, refer to [RMI format specifications](#) on page 854.
- **Audio mapping with K2 Summit 9.6** — GV STRATUS supports audio mapping of K2 Summit channels via the AppCenter. For more details, refer to [Mapping audio channels](#) on page 1145.
- **Support for .NET 4.6 and Visual Studio 2015** — GV STRATUS requires the installation of .NET 4.6 and Visual Studio 2015. For more details, refer to [Upgrade .NET](#) on page 86 and [Upgrade Microsoft Visual C++ Redistributable for VS 2015](#) on page 86.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 4.8 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to install and upgrade topics of GV STRATUS plug-in for Adobe Premiere Pro application. The **Extension Manager Command Line** tool must be used to install GV STRATUS plug-in for Adobe Premiere Pro version 9.0 and above. For more details, refer to [Installing Adobe Premiere Pro CC and GV STRATUS plug-in](#) on page 995 and [Upgrading Adobe Premiere Pro CC and GV STRATUS plug-in](#) on page 1002.

GV STRATUS Version 4.8

- **Metadata Access Control** — GV STRATUS supports Metadata Access Control with this release. For more details, refer to [Permissions settings](#) on page 271.
- **Security enhancement for Markers and Segments** — GV STRATUS supports enhanced access control on markers and segments. Full permissions are needed to create, update, or delete markers and segments. For more details, refer to [Setting security in Inspector](#) on page 406.
- **EDIUS Field Editing enhancement** — The **STRATUS Send for WAN Editing** option is available in EDIUS to enhance field editing operation. For more details, refer to [Sending the field EDIUS project to the home GV STRATUS system](#) on page 990.
- **Common RESTful Archive MDI** — GV STRATUS supports the Common RESTful Archive system with this release. You can configure up to 2 Common RESTful Archive MDIs in the GV STRATUS Control Panel. For more details, refer to [Common RESTful Archive MDI settings](#) on page 265.
- **K2 Central configuration enhancement** — K2 Central system deployment and configuration are enhanced with this release. For more details, refer to [K2 Central Storage configuration](#) on page 747.
- **GV SMB Storage configuration enhancement** — Grass Valley SMB Storage system deployment and configuration are enhanced with this release. For more details, refer to [GV STRATUS Control Panel configuration for SMB storage](#) on page 743.
- **Proxy Configuration** — GV STRATUS supports the ability to define custom proxy configuration. For more details, refer to [Proxy Quality settings](#) on page 295.
- **Custom metadata for Markers and Keywords** — GV STRATUS supports the configuration of custom metadata for markers and keywords. Only users assigned with the Media Manager role are allowed to create the custom metadata. For more details, refer to [Custom Metadata settings](#) on page 267.

- **Support for .NET 4.6 and Visual Studio 2015** — GV STRATUS requires the installation of .NET 4.6 and Visual Studio 2015. For more details, refer to [Upgrade .NET](#) on page 86 and [Upgrade Microsoft Visual C++ Redistributable for VS 2015](#) on page 86.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 4.8 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.

GV STRATUS Version 4.5.2

- **K2 Central TX Shared Storage support** — GV STRATUS supports K2 Central TX Shared Storage with this release. For more details, refer to [K2 Central Storage configuration](#) on page 747.
- **K2 Summit 9.6 support** — GV STRATUS supports K2 Summit version 9.6 with this release. For more details, refer to [Grass Valley products compatible with GV STRATUS](#) on page 46.
- **EDIUS Project Migration tool** — The EDIUS Project Migration tool is required to migrate existing EDIUS projects created before your upgrade to the GV STRATUS 4.5 system. For more details, refer to [Using the EDIUS Project Migration tool](#) on page 122.
- **New location of EDIUS cab file** — The EDIUS cab file is now included in the GrassValley_STRATUSClient cab file. For more details, refer to [Add software package to deployment group for EDIUS clients and Render Engine server](#) on page 109 and [Installing EDIUS software with SiteConfig](#) on page 231.
- **Audio track mapping on import and export to Avid** — GV STRATUS supports audio track mapping on import and export to Avid with this release. For more details, refer to [Adding an Avid import rule](#) on page 556, [Configure Avid Media Composer send destinations](#) on page 545, [Configure Avid ISIS send destinations](#) on page 547, and [Configure Avid Interplay send destinations](#) on page 550.
- **Adobe Premiere Pro 9.2 support** — For GV STRATUS plug-in to work in the Adobe Premiere Pro 9.2 application, the self-signed GV STRATUS security certificate must be manually installed. For more details, refer to [Installing the self-signed GV STRATUS security certificate for Adobe Premiere Pro](#) on page 997.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following changes have been updated to the GV STRATUS 4.5 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to [Adding an archive rule](#) on page 508 topic to support partial transfers in the archive rule.

GV STRATUS Version 4.5

- **Render Engine replaces Proxy Encoder** — The GV Render Engine now supports Proxy Encoder functionality.
 - H.264 proxy supported.
 - Proxy quality can be configured with low, medium, and high resolution.
 - Systems with existing Proxy Encoder servers must convert to Render Engine servers.
- **Scheduled Transfer** — The new tool in GV STRATUS application to schedule asset transfers into a repository.
- **Resource Management** — The new utility in GV STRATUS Control Panel to monitor and manage available resources.
- **MEWS Service enhancements:**
 - Support for multiple MEWS engines, each of them providing 3 simultaneous transfer streams.
 - Using the GV STRATUS rules engine, transfer of growing files from GV STRATUS / K2 into Avid, and edit-while-transfer.
 - MEWS transcoding of media files upon transfer from GV STRATUS to Avid or export from Avid to GV STRATUS. This is a licensed option.
 - Send from GV STRATUS / K2 into Avid ISIS / Interplay, checking asset and all pre-configured metadata (including custom metadata fields) into Interplay.
- **EDIUS Project Management** — Addition of EDIUS Projects directory in the GV STRATUS application and STRATUS Browser to ease project management and workflow in EDIUS.
- **EDIUS Workgroup** — The EDIUS Elite product has been rebranded and renamed as the EDIUS Workgroup.
- **User interface enhancements:**
 - Revamp of the whole GV STRATUS user interface with new look and feel.
 - Movable overlay controls in Inspector and Source Viewer.
 - Scrub Bar Zoom to navigate and zoom in Inspector and other Viewers.
- **ENPS workflow enhancements** — The MOS item workflow by inserting assets directly as MOS items into ENPS scripts.
- **Dyno workflow enhancements** — Browse camera angles in Asset Lists.
- **K2 Summit 9.5 support** — GV STRATUS supports K2 Summit version 9.5 with this release. SNFS (StoreNext File System) version 4.7.2 is required. For more details, refer to [Compatible K2 Summit/Solo components](#) and the "Upgrading K2 systems" section of the K2 Topic Library.
- **K2 Dyno 3.5 support** — GV STRATUS supports K2 Dyno S Replay Controller version 3.5 with this release. For more details, refer to [K2 Dyno S 3.5 Topic Library](#).

GV STRATUS Version 4.0.8

- **K2 Summit 9.5 support** — GV STRATUS supports K2 Summit version 9.5 with this release. SNFS (StoreNext File System) version 4.7.2 is required. For more details, refer to [Compatible K2 Summit/Solo components](#) and the "Upgrading K2 systems" section of the K2 Topic Library.
- **K2 Dyno 3.5 support** — GV STRATUS supports K2 Dyno S Replay Controller version 3.5 with this release. For more details, refer to [K2 Dyno S 3.5 Topic Library](#).
- **Important Windows Updates required** — GV STRATUS requires the installation of Important Windows Updates on all GV STRATUS client and server devices. For more details, refer to [Install Important Windows updates \(recommended\)](#) on page 65.

- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.
 - Updates to [Printing asset metadata](#) on page 817 and [Modifying an event](#) on page 846 topics in the "GV STRATUS Operation" section.
 - Updates to [GV STRATUS VTR applications client PC components](#) on page 390 topic in the "GV STRATUS Installation and Service" section.

GV STRATUS Version 4.0.7

- **Important Windows Updates required** — GV STRATUS requires the installation of Important Windows Updates on all GV STRATUS client and server devices. For more details, refer to [Install Important Windows updates \(recommended\)](#) on page 65.
- **Ingest Database setting required** — The Auto Close feature must be disabled if upgrading the Ingest Database. For more details, refer to [Disabling the Auto Close feature in Ingest Database](#) on page 74.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.
 - Updated [Summary of upgrade from version 3.5 to version 4.0](#) on page 172 in the "GV STRATUS Upgrade" section.
 - Updated [GV STRATUS Operation considerations](#) on page 41 in the "Release Notes" section.
 - Updated [Browsing assets](#) on page 782 in the "GV STRATUS Operation" section.

GV STRATUS Version 4.0.6

- **Important Windows Updates required** — GV STRATUS requires the installation of Important Windows Updates on all GV STRATUS client and server devices. For more details, refer to [Install Important Windows updates \(recommended\)](#) on page 65.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.

- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.
 - Added [Set firewall for application ports](#) on page 207 in the "Client PC set up process" section.
 - Updated [Summary of upgrade from version 3.1 to version 4.0](#) on page 171 in the "GV STRATUS Upgrade" section.
 - Updates to Octopus configuration topics. For more details, refer to [Configuring the MOS Device for Octopus](#) on page 38 and [Creating an ActiveX Device for Octopus](#) on page 41.
 - Updates to Adobe Premiere Pro topics. For more details, refer to [Exporting Adobe Premiere sequences to GV STRATUS](#) on page 1015 and [Upgrading Adobe Premiere Pro CC and GV STRATUS plug-in](#) on page 1002.

GV STRATUS Version 4.0.5

- **Important Windows Updates required** — GV STRATUS version 4.0.5 requires the installation of Important Windows Updates on all GV STRATUS client and server devices. For more details, refer to [Install Important Windows updates \(recommended\)](#) on page 65.
- **Bug fixes** — This release consists of bug fixes to improve the reliability and performance of the GV STRATUS application.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to GV STRATUS list of known problems. For more details, refer to [GV STRATUS Known Problems](#) on page 55.
 - Updated "Using EDIUS with GV STRATUS application" section with this new topic — [Applying User Settings to multiple EDIUS users](#) on page 961
 - Republished GV STRATUS 4.0 Topic Library on 20150813.

GV STRATUS Version 4.0.4

- **Important Windows Updates required** — GV STRATUS version 4.0.4 requires the installation of Important Windows Updates on all GV STRATUS client and server devices. For more details, refer to [Install Important Windows updates \(recommended\)](#) on page 65.
- **Bug fixes** — This release consists of bug fixes to improve reliability and performance of the GV STRATUS application.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in the "Release Notes" section. For more details, refer to [GV STRATUS Version compatibility](#) on page 43.
 - Updates to the [Access K2 storage from workstation](#) on page 1004 topic for the GV STRATUS integration with Adobe Premiere Pro.
 - Republished GV STRATUS 4.0 Topic Library on 20150723.

GV STRATUS Version 4.0.3

- **Scheduler tool enhancement** — Optimization of Scheduler's reliability and performance.
- **Send workflow** — Support of transactional copy to GV STRATUS remote destinations. For more details, refer to [Transferring an asset to a remote site](#) on page 909.
- **Dashboard role** — Dashboard role is available in all licenses except for Newsroom Basic. It is recommended that a maximum of 5 users assigned to the Dashboard role. For more details, refer to [GV STRATUS roles matrix](#) on page 158.
- **Thumbnail extraction** — Thumbnails can now be extracted via the Export rule. An export thumbnail is defined by a **tn** marker on the asset. For more details, refer to [Adding a thumbnail marker](#) on page 534.
- **SQL server memory setting** — To prevent low memory issues, the SQL server memory limit can be set on the GV STRATUS Core server. For more details, refer to [Setting the SQL server memory limit](#) on page 75.
- **Conformed asset timecode setting** — For all conform jobs, the start timecode of the resultant simple clip is based on EDIUS XS Start Timecode setting in the GV STRATUS Control Panel. For more details, refer to [EDIUS Project Settings](#) on page 117.
- **EDIUS lock enhancement** — When an EDIUS project is being edited, the project and its included sequences and clips are locked in the GV STRATUS application. For more details, refer to [Adding GV STRATUS assets to EDIUS timeline](#) on page 975.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - Updates to GV STRATUS compatibility tables in "Release Notes" section.
 - Information added on High Priority Windows Updates for EDIUS and GV Render Engine server. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.
 - Republished GV STRATUS 4.0 Topic Library on 20150604.

GV STRATUS Version 4.0.1

- **Avid/MEWS workflow enhancements:**
 - Locations configuration to support Avid ISIS.
- **Import and export rules enhancements**
- **User interface enhancements:**
 - Show/hide detailed transcode jobs in Jobs Monitor.
- **Documentation** — The following additional changes have been made to the GV STRATUS 4.0 Topic Library:
 - "About This Release" section renamed "Release Notes" and moved to top of Topic Library.
 - Updates to topics in "Fully qualified domain configuration" section.
 - Information added about K2 Summit system QuickTime FTP support.

GV STRATUS Version 4.0

- **Security** — When GV STRATUS Security is enforced, the Security Manager role allows you to set access permissions and assign ownership to assets and bins. Also, a security certificate installed on the GV STRATUS Core server enhances the security of the GV STRATUS system.
- GV STRATUS software installation automatically creates and installs a security certificate on the GV STRATUS Core server. No manual steps are required.
- **Metadata Mapping** — For material imported with the RMI tool, metadata can be mapped to GV STRATUS metadata.
- **Send Message** — Advanced Logging Tool panels can be sent via the Send Message tool.
- **Camera angles** — Angles can be selected in Inspector and Channel Panel, for clips that are a part of a K2 Dyno camera angle set or a GV STRATUS gang record set.
- **Conform and clean** — When deleting an asset, options are available to conform associated lists and subclips.
- **EDIUS for GV STRATUS** — EDIUS Elite and EDIUS XS launch mode combined.
- **Ingest Schedule Monitor** — The schedule can be displayed on a large screen for viewing by a group of people.
- **Workflow Engine** — Aspera Server supported in GV STRATUS Rules.
- **Documentation** — The following organization and structural changes have been made to the GV STRATUS Topic Library:
 - Release note and upgrade sections for GV STRATUS Rundown and GV STRATUS VTR Ingest consolidated with sections for GV STRATUS.
 - Added master list of Grass Valley ports.
 - Added sections for fully qualified domain and CIFS storage.
 - Removed Director tool sections.

GV STRATUS Version 3.5.1

- **Wide Area News field editing integration with EDIUS Elite** — Grass Valley's Wide Area News toolset has been created to provide news operations the utmost flexibility in allocating resources between field and newsroom operations. Wide Area News removes the distance barrier, giving field personnel an editing experience identical to the one they would enjoy in the newsroom with the same access to central newsroom content. By mixing newsroom proxy with locally shot full resolution clips the field user can create finished product with no missing scenes of "black holes". There is no need to transfer full resolution content to the field since a smart conform server at the home base will automatically find the full resolution content for any shots covered by proxy in the field.

The following specific GV STRATUS 3.5 enhancements enable Grass Valley Wide Area News:

- Support for mixed full resolution/proxy timeline in EDIUS Elite in the field to support mixing local full resolution content in timeline with "home base" proxies
- New "Home/Field" project setting in EDIUS Elite
- Send partially rendered project to home base for final render where proxies are replaced with full resolution

GV STRATUS Version 3.5

- **GV STRATUS Digital Media Platform (DMP)** — GV STRATUS DMP is the industry's most highly integrated and powerful toolset for content delivery to the full spectrum of digital destinations. In a shift from a technology-centric approach to business-driven workflows, users can create a set of properties that accompany content throughout the production and preparation processes, and new properties can be created at each stage. These properties eventually determine to which media the content is sent, how it must be transcoded or reformatted to be suitable to those destinations, special instructions for content embargoes depending on the specific destination medium, and content replacement instructions for both files and live streams added either manually or automatically via an Ignite Production Automation system.

The following specific GV STRATUS 3.5 enhancements enable the GV STRATUS Digital Media Platform:

- New custom metadata type
- Metadata categories (Tabs)
- Segmentation tool improvements
- Segment template metadata back to NRCS for markup
- Search for segments
- Online Video Platform (Brightcove) interface
- Additional live encoding and file transcoding interface - Elemental Technologies
- Rules Engine enhancements
 - Export support for multiple transcode profiles in one rule
 - Force metadata value on export
 - Force lower or UPPER case extension on export
 - E-mail notifications on export failure/success
 - Elemental file encoder support
 - Faster and better CC extraction with K2 Summit for SCC and TTML

NOTE: Rules based CC extraction through 3rd party transcode products is no longer supported.

- **Rule-based Import of content and metadata** — Import Rules provide broad ability for importing virtually all file types including user generated content, syndicated "store and forward" file delivery systems, and still images.
 - Configure rules in GV STRATUS Control Panel
 - Rules will act on combinations of folder locations and file extensions
 - Accompanying metadata can be mapped to GV STRATUS database and imported
- **Enhanced K2 Dyno integration with support for scheduled multicam recording** — Consistent with the K2 Dyno environment, with GV STRATUS you can now access and work with multicam angle assets in same way as standard clips.

- **Various other significant capabilities** — Numerous additional enhancements in version 3.5 are applicable to the GV STRATUS Digital Media Platform and/or add new functionality to existing GV STRATUS workflows:
 - Support for Evoxe NIS5 newsroom computer system
 - GV STRATUS Render Engine replaces GV STRATUS Conform and GV STRATUS XRE
 - GV STRATUS VTR Ingest application (GV STRATUS enabled version of Aurora VTR Ingest)
 - GV STRATUS VTR Controller application (GV STRATUS enabled version of Aurora VTR Controller)
 - Subclips preserve original clip metadata including markers when in range
 - User roles:
 - Move - to enable/disable users to move assets
 - Rename bin - to enable/disable users to rename bin
 - Queue management - to enable/disable users to manage job queues (cancel etc.)
 - Force delete assets for media manager - bypass protection by association
 - F11 send dialog box enhancements
 - You can now add a description on send
 - Description is added to placeholder when saved
 - Description is added to clip when "Send" is done
 - Partial file transfer from remote to local site.
 - Search enhancements
 - Search for segments
 - Use "quotes" in search to search for characters like _-+*/= and for exact match searches
 - EDIUS enhancements:
 - You can do audio mapping including AC3 and Dolby E
 - Audio mixer available on sources
 - Audio monitoring setting (mono/stereo/custom)
 Refer to EDIUS product documentation for more information.
 - Adobe® Premiere® Pro CC enhancements
 - Support for Mac OS
 - F11 send dialog export box including link to NRCS placeholders
 - Advanced searches
 - Sorting
 - Avid transfers without DHM and without Avid Transfer Manager powered by Marquis MEWS API services
 - GV STRATUS User Interface enhancements
 - Scroll dates by year and months in calendar views
 - New color scheme with choices of 4 different themes with purple or green highlights
 - ALP displays creation date for placeholder
 - "Favorite" enhancements: Now you can add anything in Favorites, including segment templates

- **Documentation** — PDF manuals are replaced by an online HTML format Topic Library. Refer to [Topic Library replaces PDF manuals](#) on page 28.
- **About product naming** — Effective with GV STRATUS 3.5 version and as part of the introduction of cloud enabled GV STRATUS Payout for play-to-air workflows, two existing applications have been adapted for use in GV STRATUS installations:
 - Version of Aurora Payout application modified for GV STRATUS environment is introduced under the name of GV STRATUS Rundown. No new nomenclature or ordering information is associated with this introduction as the product remains activated by GV STRATUS Elite licenses.
 - Version of Aurora VTR Ingest modified for GV STRATUS environment is introduced under the name of GV STRATUS VTR Ingest, with new nomenclature STRATUS-VTR-ING. Other than an updated GUI color scheme, the GV STRATUS VTR Ingest application has identical specifications as the Aurora VTR Ingest product.

Both Aurora Payout and Aurora VTR Ingest applications are still available for deployments in non-GV STRATUS installations, such as in standalone configurations or with Aurora Suite.

GV STRATUS Version 3.1

- **Search** — Enhanced search features provide an advanced query syntax for searching one or more words and for using boolean operators. This changes the behavior of a simple search. Previously, a simple search of multiple words, with no syntax, was a phrase search only. Now you must use the advanced query syntax to specify a phrase search.
- **Internal system account** — You can change the internal system account from the default GVAdmin account to a different account, if required by your site's policies.

NOTE: *Do not change internal system account except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.*
- **Rules** — Support for Harmonic® Workflow System (WFS™), conform, priority, and other enhancements.
- **Adobe® Premiere® Pro CC** — A GV STRATUS plug-in to Adobe® Premiere® Pro CC provides edit-in-place and enhanced workflow.
- **Documentation** — Use K2/STRATUS Documentation Set 071-8910-02 December 2013. The following manuals have been revised:
 - "GV STRATUS Installation and Service Manual" 071-8814-07
 - "FT Server Instruction Manual" 071-8852-03

The following manual has been revised to support the GV STRATUS plug-in to Adobe® Premiere® Pro CC . Use this version of the manual rather than the version on K2/STRATUS Documentation Set 071-8910-02.

- "GV STRATUS User Manual" 071-8813-08

In addition to the documentation listed above, use these release notes and "GV STRATUS Upgrade Instructions" 071-8853-09.

GV STRATUS Version 3.0

- **Multisite** — Enables remote browsing of proxy media and transfer of media across distributed facilities or from field locations.

- **HTTP server** — Provides access to proxy media, replacing the CIFS mount access in previous versions.
- **Search indexing service** — Enables faster search across assets.
- **Rules enhancements** — Includes the following:
 - Archive rule
 - Restore rule
 - Export rule exports metadata only
 - Export SCC close captioning when using 3rd party transcoders
 - Thumbnail export
 - Integration with Telestream® Vantage™ 3rd party transcoding engine
- **DataMover Engine** — Supports transfers between devices outside the GV STRATUS system.
- **Full Screen** — Provides full screen playback and timecode selection.
- **Playback ganged clips** — Clips recorded as a gang are associated for playback.
- **Inspector improvements** — Simplified tabs and the ability to reorder properties provide improved access to information.
- **OpenMedia News Room Computer System** — Support for MOS integration with the Annova OpenMedia NRCS.
- **Trim Rights** — Restricts the trim operation to designated user accounts.
- **Metadata** — Reordering of metadata and printing of metadata report card.
- **Event Viewer** — An improved GV Event Viewer application provides easier access to system information.
- **Documentation** — Use K2/STRATUS Documentation Set 071-8910-01 September 2013. The following manuals have been revised:
 - "GV STRATUS User Manual" 071-8813-06
 - "GV STRATUS Installation and Service Manual" 071-8814-06
 - "FT Server Instruction Manual" 071-8852-02

In addition to the manuals on the Documentation Set, use these release notes and "GV STRATUS Upgrade Instructions" 071-8853-08.

GV STRATUS Rundown Version 8.2

- **Aurora Playout name change to GV STRATUS Rundown** — The Aurora Playout product is rebranded as GV STRATUS Rundown to reflect its workflow in the news environment with the GV STRATUS 3.5 application.
- **Audible countdown before a playback** — Support for audible countdown setting before the start of a playback. The audible countdown audio file can be selected in the Playback setting of the GV STRATUS Rundown application. Refer to [Setting Playback options](#) on page 1169 for more information about this setting.
- **NIS5 NRCS support** — Support for Evoxe NIS5 newsroom computer system.
- **GV STRATUS 3.5 support** — The GV STRATUS Rundown application supports the workflow with GV STRATUS 3.5 Media Workflow Application Framework.
- **Documentation** — PDF manuals are replaced by an online HTML format Topic Library. Refer to [Topic Library replaces PDF manuals](#) on page 28.

GV STRATUS Rundown Version 8.1

- **Sealevel GPIO 8004e PCI Express card support** — Support for the Sealevel GPIO 8004e PCI Express card to connect and control the GV STRATUS Rundown application. The card is compatible with Windows 7, Vista, and XP operating systems.
- **GPO command for Embargo status** — Support for Embargo status that can be set to stories in Avid iNEWS newsroom computer system. This is to ensure that stories with Embargo status are to be played on-air only, while stories without the Embargo status can be played to air and streamed via other media options. The GPO command can be configured in the GPIO Configuration tab in the GV STRATUS Rundown application.
- **GV STRATUS 3.1 support** — The GV STRATUS Rundown application supports the workflow with GV STRATUS 3.1 Media Workflow Application Framework.
- **Documentation for this release** — In addition to these release notes, use the following document for this release of GV STRATUS Rundown software:

- GV STRATUS Rundown User Manual v8.1 — 071-8516-08 — December, 2013

You can search for the document at <http://www.grassvalley.com/docs>.

GV STRATUS Rundown Version 8.0

- **OpenMedia NRCS support** — Support for MOS integration with the Annova OpenMedia News Room Computer System.
- **New setting in Cue and Chain options** — With the new **Prevent Auto Recue above first cued item** setting in the GV STRATUS Rundown application, you can avoid automatic recue of clips above the first cued clip in the playlist. However, clips can still be cued manually above the first cued item by operators. Refer to the this Topic Library for more information about this setting.
- **GV STRATUS ActiveX Plug-in** — GV STRATUS ActiveX Plug-in is available within the GV STRATUS Rundown application. With the plug-in, playback operators can search, add, edit assets for broadcast, and preview assets via the Source Viewer or the Inspector without taking up a channel on the playout server. In order to use GV STRATUS within GV STRATUS Rundown, the STRATUS-ELITE license is needed on the GV STRATUS Core Services server.
- **New GV STRATUS Database setting in SDB Server** — With this new setting, GV STRATUS database can be accessed via the GV STRATUS ActiveX Plug-in within GV STRATUS Rundown, and proxy paths of assets are available to the newsroom computer system.
- **Documentation for this release** — In addition to these release notes, use the following document for this release of GV STRATUS Rundown software:

- GV STRATUS Rundown User Manual v8.0 — 071-8516-07 — April, 2013

You can search for the document at <http://www.grassvalley.com/docs>.

GV STRATUS Rundown Version 7.1.1

- **GV STRATUS support** — GV STRATUS Rundown is compatible with the GV STRATUS Media Workflow Application Suite. For GV STRATUS Rundown to work in the GV STRATUS environment, STRATUS Elite licence needs to be installed on GV STRATUS Rundown machines.
- **MOS channel update** — GV STRATUS Rundown supports the option to update the Newsroom Computer System (NRCS) of assigned playout channels. Refer to [Setting General options](#) on page 1167 for more information in these release notes.

- **Essence path to NRCS** — The GV STRATUS Rundown allows FTP path of an essence clip to be reported to the NRCS.
- **New setting in GV STRATUS Rundown** — If the new setting **Prevent Stop Cue Delay on Post Roll** is enabled, the Stop Cue Delay period does not take effect when a clip goes into post roll mode (either by a play next or tally off-air). Refer to [Setting Playback options](#) on page 1169 for more information in these release notes.
- **New column in Housekeeper** — The Clip Import tab in the Housekeeper application now has the **Created** column in the asset list; to display the creation date of the asset.
- **Removal of separate licensing for SDB and XMOS servers** — SDB and XMOS servers no longer need licenses to operate.
- **Removal of skinning** — User-interface skinning using a third-party product has been removed from the Assignment List Plugin and Housekeeper application.
- **Documentation for this release** — As a minor release, this constitutes the revision of release notes only and not the whole customer documentation set. In addition to these release notes, use the following document for this release of GV STRATUS Rundown software:
 - GV STRATUS Rundown User Guide v7.0 — 071-8516-05 — April, 2010

The document is on GV STRATUS Rundown 7.0 Software CD with part number 063-8267-10 or you can also search for the document at <http://www.grassvalley.com/docs>.

GV STRATUS Rundown Version 7.1

- **Windows 7 support** — GV STRATUS Rundown supports the Windows 7 operating system for 32-bit and 64-bit versions.
- **Documentation for this release** — In addition to these release notes, use the following document for this release of GV STRATUS Rundown software:
 - GV STRATUS Rundown User Guide v7.0 — 071-8516-05 — April, 2010

The document is on GV STRATUS Rundown 7.0 Software CD with part number 063-8267-10 or you can also search for the document at <http://www.grassvalley.com/docs>.

GV STRATUS Rundown Version 7.0.0.33

- **New Look** — The look and feel of the GV STRATUS Rundown has been changed to match the rest of the Grass Valley product lines.
- **New terminology** — The MediaFrame server will now be referred to as K2 BaseCamp. (The scaled-down version of the Aurora Browse/MediaFrame system is still referred to as K2 BaseCamp Express.)
- **Enhanced MOS Workflow** — With this workflow, assets will be embedded with MOS Object IDs and seen as MOS objects throughout ENPS. Therefore, a search in ENPS can easily get the script, rundown and video assets. In addition to the ability to attach these video elements to scripts on ENPS, users can also display a list of current MOS Object IDs for raw feeds in the Assignment List Plug-in. So, journalists and editors now have a direct search link between wire information within ENPS and video assets within Grass Valley.
- **Multi-Tiered Bins in K2 Summit** — GV STRATUS Rundown supports the ability to configure playout destinations into K2 Summit's multi-level bin hierarchy feature. The configuration needs to be set up within the SDB Server component.

- **Use Configured Web Proxy Settings** — You can set MediaFrame to use proxy settings configured in your web browser to communicate with MediaFrame services. For example, the proxy configured in Internet Explorer under Tools > Options > Connections > LAN Settings > Proxy Server.
- **User Setting to Disallow Trimming within ALP** — When launched under Administrator control, the operator has the option of disabling trim capabilities.

GV STRATUS VTR Ingest Version 9.5

- **Security** — Support for GV STRATUS security.

GV STRATUS VTR Ingest Version 8.5.0.29

- **Aurora VTR Ingest name change to GV STRATUS VTR Ingest** — The name change is to reflect the revamping of Aurora VTR Ingest application into the GV STRATUS workflow.
- **GV STRATUS 3.5 support** — The GV STRATUS VTR Ingest application supports the workflow with GV STRATUS 3.5 Media Workflow Application Framework.
- **Video capture device support** — The GV STRATUS VTR Ingest application supports the following video capture devices:
 - Hauppauge! WinTV-HVR-1150
 - BlackMagic DeckLink SDI 4K
 - BlackMagic UltraStudio SDI
- **Documentation** — PDF manuals are replaced by an online HTML format Topic Library. Refer to [Topic Library replaces PDF manuals](#) on page 28.

Additional notes

The following sections contain additional information about this release.

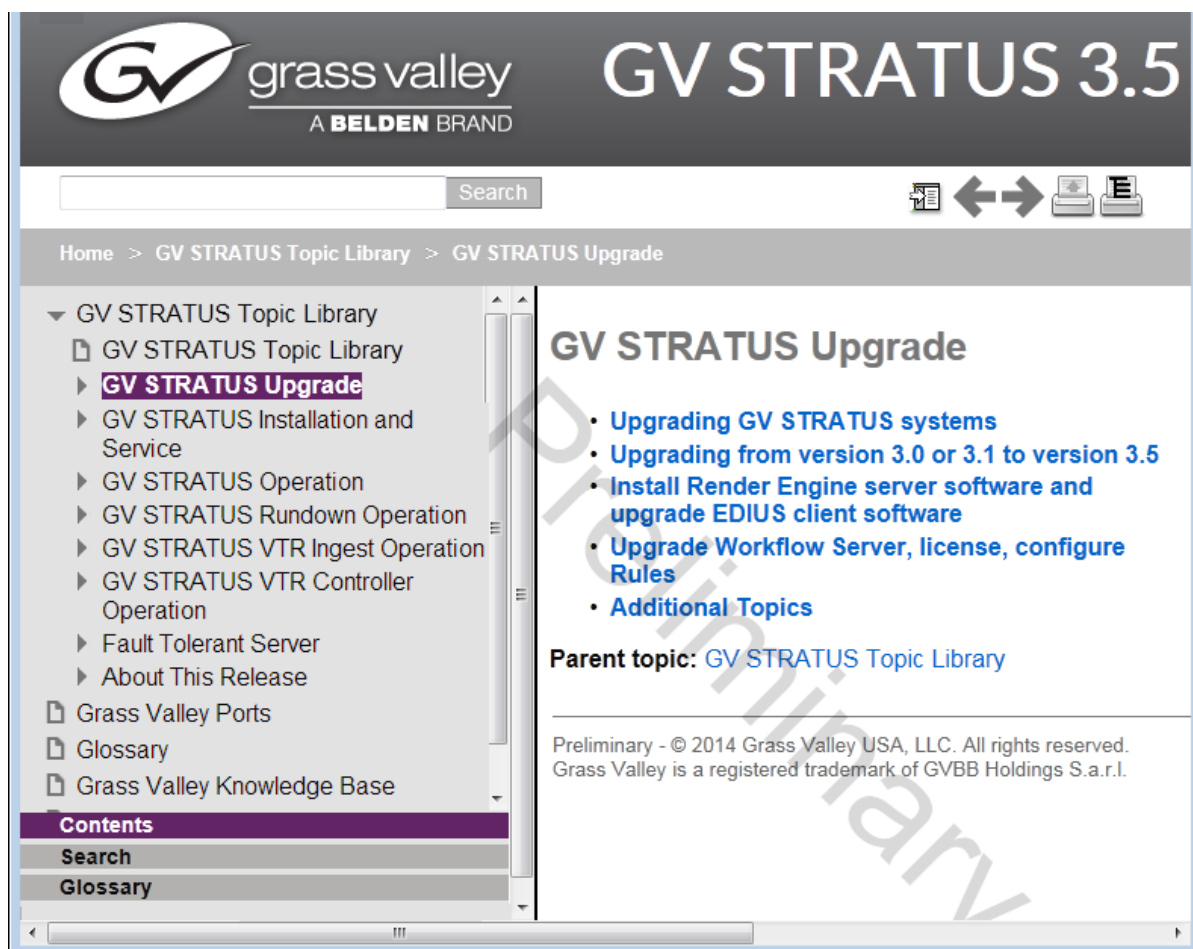
Topic Library replaces PDF manuals

Customer documentation for select Grass Valley products is now delivered as an online HTML format Topic Library, rather than as PDF manuals, with the following benefits:

- A unified search tool finds information anywhere in a product's documentation set. It is no longer necessary to search multiple PDF manuals.
- Extended workflows can be linked, even when the scope crosses multiple installation and operational scenarios. It is no longer necessary to jump between PDF manuals to follow the complete workflow.
- Other usability enhancements.

Information previously found in PDF manuals is now found in the Topic Library. The content of a PDF manual is an expandable section in the Topic Library tree-view.

For example, the content of the "GV STRATUS Upgrade Instructions" PDF manual is in the Topic Library section highlighted in the following illustration.





For the GV STRATUS product, find information as follows:

Information from this PDF manual...	Is in this Topic Library section:
"GV STRATUS Upgrade Instructions"	GV STRATUS Upgrade
"GV STRATUS Release Notes", "Aurora Payout Release Notes", "Aurora Ingest Release Notes"	Release Notes
"GV STRATUS Installation and Service Manual"	GV STRATUS Installation and Service
"GV STRATUS User Manual"	GV STRATUS Operation
"Aurora Payout User Manual"	GV STRATUS Rundown Operation
"Aurora Ingest System Guide" Using VTR Ingest	GV STRATUS VTR Ingest Operation
"Aurora Ingest System Guide" Using VTR Controller	GV STRATUS VTR Controller Operation
"FT Server Instruction Manual"	Fault Tolerant Server

A Topic Library is hosted online on the Grass Valley website. Access to a Topic Library is available at the same location as PDF manuals. For example, if a reader is accustomed to downloading PDF

manuals on the Grass Valley website from a Product Software Download page or from a Product Documentation Library page, a link to the Topic Library is provided on the same page.

A Topic Library provides several options for accessing information offline, as follows:

- Print a single topic or a group of topics with **Print topic**  or **Print topic and sub-topics**  toolbar buttons. If your printer options support creating a PDF file, you can create a PDF file rather than printing.

About groups and users on a GV STRATUS system

If your GV STRATUS system is on a domain, all servers and client PCs on that system that have any interaction with Grass Valley components must be logged on to Windows with a domain user account. Do not use a local user account.

GV STRATUS licensing and roles are applied to Windows operating system groups and users. Any groups or users to which you assign GV STRATUS licenses or roles must be available for authentication on the GV STRATUS server with role of Common Services, which is typically the GV STRATUS Core server, and on all K2 devices that are part of your GV STRATUS system. This includes the following devices:

- GV STRATUS servers
- K2 Summit standalone systems
- K2 Summit SAN-attached systems
- K2 Media Servers

Groups and/or user accounts are not authorized on the GV STRATUS client PC itself. When you log on to an application from a client PC, you are authorized against the roles assigned to the accounts available on the GV STRATUS Core server as follows:

- GV STRATUS application — If you are using a domain, the log on accounts are on the domain server and are managed by the domain so the GV STRATUS Core server must be on the domain. If you are using a workgroup, the log on accounts must be a part of the workgroup on the GV STRATUS Core server.
- GV STRATUS Control Panel application — You must log on with Windows administrator credentials in order to have access to all the configuration settings in the GV STRATUS Control Panel application. The log on account must be a part of the local Windows administrator account on the GV STRATUS Core server. This is required whether you are using a domain or a workgroup. If you are using a domain, you can additionally add the log on account to the domain administrators group.

If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

Grass Valley Recommended Deployment and Monitoring Solutions

To maximize up-time, a maintenance strategy must provide the ability to easily identify the root cause of an unanticipated hardware or software failure and to quickly compile failure data. The ability to proactively predict failures and to quickly notify those who can rectify them makes the maintenance strategy even more powerful. Grass Valley has a long history of building the necessary

functionality into critical broadcast products. With Grass Valley's next generation tool, GV GUARDIAN, remote monitoring and proactive predictive failure analysis are important contributors to Grass Valley system solutions. GV GUARDIAN runs on commercial off-the-shelf server PCs, such as the K2 system control point PC, and is also available as an all-in-one turnkey product. Grass Valley and 3rd party devices report status via Window Messaging, Simple Network Management Protocol (SNMP), or syslog to GV GUARDIAN. The tool provides easy to use, fully autonomous remote monitoring to predict errors, provide proactive notifications, and centrally consolidate error logs and hardware failure information. With GV GUARDIAN you can maximize your up-time with less manpower, as compared to manual system monitoring. Watching for indicator lights, physically scanning logs, and other manual monitoring is far more time consuming, more error-prone, and much less accurate. Grass Valley recommends using GV GUARDIAN as your remote monitoring tool.

Passwords and security on Grass Valley systems

To provide a basic level of security, Grass Valley systems recognize three different security levels based on Windows users and groups, and the systems ship from the factory with accounts pre-configured accordingly. To access the system you must log on with the user name and password for one of the pre-configured accounts.

The following table shows the different types of users and their privileges.

	Windows administrator	Grass Valley product administrator	K2 product administrator	Grass Valley product user
User name	Administrator	GVAdmin	K2Admin	GVUser
AppCenter Configuration Manager	Full access	Full access	Full access	Can view
AppCenter	Full access	Full access	Full access	Full access; requires an account on the K2 Summit/Solo system
Storage Utility	Full access	Full access	Full access	Can't access
K2Config	Full access	Full access	Full access	Can't access
Server Control Panel	Full access	Full access	Can view	Can view
Windows Operating System	Full access	Full access	Limited access (based on Windows user account privileges).	Limited access (based on Windows user account privileges)

To support legacy FTP and security features, K2 systems also have *movie*, *mxfmovie*, *mpgmovie*, and *video_fs* accounts. Do not use these accounts to log in to the Windows operating system on K2 systems.

Related Topics

[About credentials in SiteConfig](#) on page 32

[Set credentials](#) on page 216

[Changing passwords](#) on page 587

[GV STRATUS servers logon account](#) on page 198

About application security on the K2 SAN

The K2Config application and the Storage Utility application both require that you be logged in to the application with administrator privileges in order to modify any settings. These privileges are based on the Windows account that you use when you log in to the K2Config application. When you open Storage Utility from within the K2Config application, the account information is passed to Storage Utility, so you do not need to log in separately to Storage Utility.

In SiteConfig you configure global and/or device-type credentials for device access. These credentials are likewise based on Windows accounts.

You must use a Windows account that has local administrator privileges on the machine to be configured. For example, when you are on a control point PC and you run the K2Config application for the purpose of configuring a K2 Media Server, the account with which you log in to the K2Config application must be present on the K2 Media Server and must have administrator privileges on the K2 Media Server.

For initial setup and configuration, you can use the default Windows Administrator username and password to log in to applications and machines as you work on your K2 SAN. However, for ongoing security you should change the username/password and/or create unique accounts with similar privileges. When you do this, you must ensure that the accounts are present locally on all K2 SAN machines, including control point PCs, K2 Media Servers, K2 Media Clients, K2 Summit Production Clients, and other iSCSI clients.

Grass Valley recommends mapping the SNMP manager administrator with product administrator accounts for your K2 and other Grass Valley products. This allows you to log on to the SNMP manager as administrator using the product administrator logon.

Refer to related topics about Grass Valley recommended deployment and monitoring solutions in the "Release Notes" section of the K2 Topic Library.

About credentials in SiteConfig

SiteConfig requires administrative privileges on devices in order to perform most of the network configuration and deployment tasks. For known devices types, SiteConfig has a default administrator account and password. These default credentials depend on the SiteConfig version, so check your SiteConfig Release Notes for any changes. When you add a device based on a known device type, SiteConfig references the default administrator account and password. Then, when you use remote desktop or perform software deployment to the device, SiteConfig automatically uses these

credentials. These credentials are called "global" credentials for the device since the same credentials are used on all devices of that type in the system.

You can choose to override the default credentials for a given device type. For example, if you have specified a different administrator account or a different password on the devices when commissioning the system, then you want SiteConfig to use these modified credentials.

It is possible to also override the default credentials for a single device.

Related Topics

[Understanding credentials](#) on page 357

[Changing passwords](#) on page 587

Disabling User Account Control for GV STRATUS Rundown on Windows 7 clients

You need to disable the User Account Control on Windows 7 in order to configure **Tools | Options** settings in GV STRATUS Rundown.

1. Go to **Start | Control Panel | User Accounts**.
2. Click on the **Change User Account Control settings** link.
3. Drag the slider bar to the lowest value that shows **Never notify**.
4. Click **OK**.
5. Restart your computer for the change to take effect.

Setting up AMP control for GV STRATUS Rundown on a K2 Client

K2 Media Client and K2 Summit Production Client are controlled via AMP Protocol over Ethernet.

To set up AMP control of a K2 Client:

1. On AppCenter of the client, click the **Options** button for the desired panel.
2. Set the Control setting to either **Remote Only** or **Remote and Local** and the Protocol setting to **AMP**. Repeat this step for each panel that will be controlled remotely.
3. In the SDB Server application, go to **Tools | Options | Media**, click the Add button to add the media server and add the name of the client.
4. In the GV STRATUS Rundown application, go to **Tools | Options | Channel Configuration** and select channel from the dropdown list. To configure the channel, add the channel name, media server and channel server name.

NOTE: *Each K2/Summit channel should be connected to either Aurora Ingest or GV STRATUS Rundown only. Connecting to both applications at the same time will cause channel conflicts.*

Installing GV STRATUS Rundown software manually

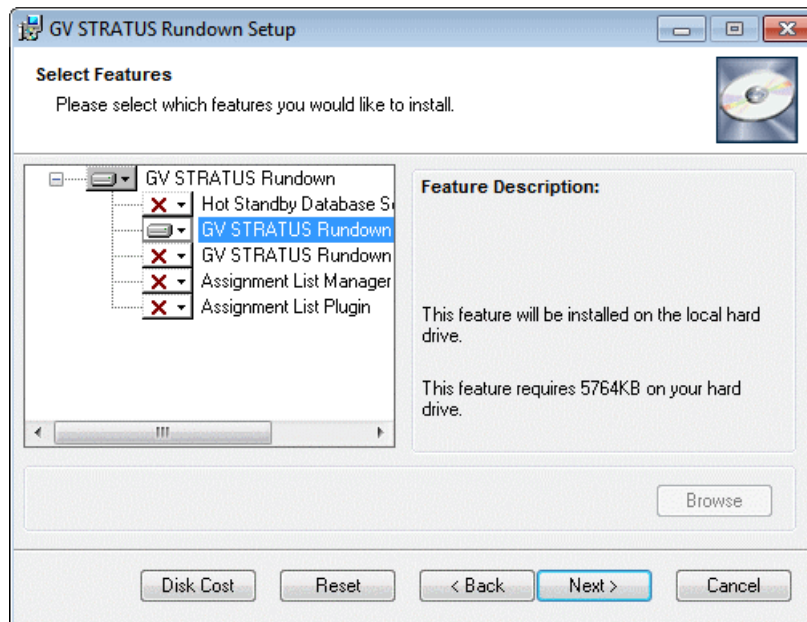
Because you must configure some components with the locations of other components, you should plan your overall installation before you begin.

If you don't have SiteConfig within your operation, you can install GV STRATUS Rundown software using the GV STRATUS Rundown installation file that you received from Grass Valley.

The various GV STRATUS Rundown components reside on multiple computers. Using the GV STRATUS Rundown installer, you can choose which component to install on a particular computer.

Component	Machine where you install it...
GV STRATUS Rundown application	GV STRATUS Rundown computer. NOTE: It is recommended that GV STRATUS Rundown is run at a display resolution of 1280 x 1024.
GV STRATUS Rundown Server Components: XMOS Server / SDB Server	Recommend installing on a separate computer even though they are allowed to be on GV STRATUS Rundown computer. NOTE: When the XMOS Server application is running on a Windows XP system, it is recommended that the “Windows Firewall” feature be turned off, as it can adversely affect the speed of MOS communication with the newsroom computer system.
Assignment List Manager (standalone version)	Non-NCS computers, usually used by Newsroom Producers.
Assignment List Plug-in	All NCS client computers.
Hot Standby Database Server	Optional; install on a PC on the same network as the GV STRATUS Rundown computer.

1. Navigate to and double-click **Setup.exe**.
2. Click **Next** until you reach the Select Features screen.



3. At the Select Features screen, select the component(s) that you want to install.
4. Click **Next** to start the installation.
5. Click **Finish** at the Installation Complete screen.

Setting up ENPS for GV STRATUS Rundown

To set up ENPS for use with GV STRATUS Rundown, you need to modify your ENPS configuration.

1. On the ENPS server, find the *enps.ini* file and add the following to the **[ENPS]** section:

```
QTMediaExtensions=.mov, .mp4
```

2. On an ENPS client, log on as the administrator and start up ENPS.
3. From the ENPS folder, select **System Maintenance | Groups | New** and create a new group with these parameters:

ID	KXYZGVG
Description	GV Clips
Server	Select the name of your ENPS server from the drop-down list

4. Click **Save** and close ENPS on the workstation.
5. Close the News Object Manager and it should restart automatically. After the NOM has started, restart the ENPS client.
6. From the ENPS folder, select **System Maintenance | MOS Configuration | New** and create a new MOS entry with these parameters:

ID	The MOS ID; this value is case sensitive and must match the MOS ID configured in the XMOS Server Options. The recommended format is <family>.<machine>.<location>.<enterprise>.mos. Standard practice is to use station call letters for location and station group abbreviation for enterprise.
Description	GV STRATUS - for operation with GV STRATUS. GV Assignment List - for GV STRATUS Rundown operation only.
IP	The IP address or host name of the machine hosting the SDB Server and the XMOS Server.
ActiveX	GV.STRATUS.1 - for operation with GV STRATUS. GVG.XMOSCtrl.1 - for GV STRATUS Rundown operation only.
Default Settings	Leave blank. These settings are configured during installation.
Program	The group ID you configured in step 3.
MOS Version	2.6 or 2.8.2
Local DragDrop	Off
Auto Create	On
Story Send	On

7. From the ENPS folder, select **System Maintenance | Global Configuration Options**, add a new property named `AddMOSObjDuration` and set its value to **1**.

NOTE: *AddMOSObjDuration is the optional setting that allows the duration of clips to be automatically included in the rundown timing. If you prefer to manually enter the duration of your story and clips, do not activate this setting.*

8. Add **mp4** to the `MOSBrowseMediaExtensions` property, as can be seen below:

```
MOSBrowseMediaExtensions=bmp,jpg,jpeg,mp4,3gp,wmv,wav,sdp,ts
```

9. Restart the ENPS client application.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Setting ENPS MOS ready to air

If you want producers to have the ability to indicate to the GV STRATUS Rundown operation when a rundown is ready, use the ENPS MOS Ready to Air feature.

To set the feature:

- Set the ENPS rundown property “Ready to air” to ON.

A corresponding READY flag is set to ON in the GV STRATUS Rundown rundown window Status column.

Setting up iNEWS for GV STRATUS Rundown

To set up iNEWS for use with GV STRATUS Rundown, you need to add a new MOS device to the iNEWS configuration file:

1. On the MOS gateway machine, open the file `C:\Program Files\Avid\MOSGateway\mosconfig.xml`.

2. Modify the following lines of the file, adding values for your location:

Value	Description
ncs id	Your Newsroom Computer System name; this value is case sensitive and must match the NCS ID configuration in the XMOS Server options.
host	The hostname of the iNEWS server.
mos	Your MOS ID; this value is case sensitive and must match the MOS ID configuration in the XMOS Server options.
amcp	The tag displayed in iNEWS scripts for placeholders embedded in scripts. This value should match the device name that appears in the iNEWS SYSTEM.MAP file.
network	The hostname of the machine running the XMOS Server.

NOTE: With iNEWS, *<handlesRoItemLevelCommands>* default setting could cause stories to drop to the bottom of the playlist when they are newly inserted, or when their channel assignment is changed. Therefore, *<handlesRoItemLevelCommands>* value should be set to **NO** in the *mosconfig.xml* file.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Configuring status translations for iNEWS

To ensure correct status reporting between GV STRATUS Rundown and iNEWS server, you need to edit the status translation table in the iNEWS configuration file.

- The status translation table within the *mosconfig.xml* file should appear as below:

```
<statusTranslations>
  <statusUnavailable>NOT READY</statusUnavailable>
  <statusCueing>CUEING</statusCueing>
  <statusAvailable>READY</statusAvailable>
  <statusCued>STAND BY</statusCued>
  <statusPlaying>PLAY</statusPlaying>
  <statusPaused>STOPPED</statusPaused>
  <statusStopped>END</statusStopped>
  <statusUnknown>DISCONNECTED</statusUnknown>
</statusTranslations>
```


- On the iNEWS server, your MCS dictionary (located at /site/dict/mcs) would typically contain these lines:

```
A_EVERR           /5ERROR
A_CAFRZ           /END
A_CATREL          /2STANDBY
A_CATHRD          /THREAD
A_CACUING          /2CUEING
A_CACUED           /2CUED
A_CANOTAPE        /4NOT_READY
A_CABIN           /READY
A_CAPLAY          /3PLAY
A_CAPAUSE         /3STOPPED
A_CAREW           /REWIND
A_CAEJECT         /EJECT
A_CAINCMPLT       /TRANSFER
```

NOTE: *Since the statuses that appear in this dictionary can be customized, the values shown in the right column of your MCS dictionary may vary slightly from the ones shown here.*

To ensure correct configuration with iNEWS, a sample of the mosconfig.xml file is provided in the appendix section.

Setting up Octopus for GV STRATUS Rundown

In order to use Octopus with GV STRATUS Rundown, you need to configure it first.

To configure Octopus for GV STRATUS Rundown, you need to create an ActiveX device, and modify the MOS Devices configuration.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Configuring the MOS Device for Octopus

You need to configure the MOS Device before using Octopus with GV STRATUS.

1. Launch the Octopus client, and click the **Devices** button.

The **Devices** page opens.

2. Click the **New** button on the toolbar.

The **Device** window opens.

3. Configure the Basic tab as follows:

mosID	These values must match those set for the XMOS Server.
ncsID	
Version	This value must match with the version set for the XMOS Server.
Disabled	Unchecked
Media host	Name or IP address of machine hosting the SDB Server.
Media port	SDB Server port (normally won't change from default setting)
Rundown host	Name or IP address of machine hosting the XMOS Server.
Rundown port	XMOS Server port (normally won't change from default setting)

4. Configure the Stories tab as follows:

Option	Setting
Send empty stories	✓
Send production requirements	✓
Send story custom fields	✓
Use standard ed times	✓

5. Configure the Rundowns tab as follows:

Refresh method	roReplace
Send roMetadataReplace	✓
Send broadcast channel name in roChannel	✓
roSlug pattern	%TYPE% %START%

6. Configure the Prompting tab as follows:

Send story text	✓
Keep sending roStoryReplace or roElementAction	✓

7. Configure the Status tab as follows:

Accepts on-air status	✓
Accept status for slugs in not-ready rundowns	✓

a) Create these status categories (these are the suggested names and order):

DISCONNECTED		None	<input checked="" type="checkbox"/>
PLAY		None	<input checked="" type="checkbox"/>
NOT READY		None	<input checked="" type="checkbox"/>
STAND BY		None	<input checked="" type="checkbox"/>
STOPPED		None	<input checked="" type="checkbox"/>
POST ROLL		None	<input checked="" type="checkbox"/>
END		None	<input checked="" type="checkbox"/>
READY		None	<input checked="" type="checkbox"/>

Buttons: New, Move up, Move down, Delete

8. Configure the MOS Objects tab as follows:

Update private objects	✓
Translate redirected IDs	✓
Supports mosListAll	✓
Display name instead of jobID	✓

9. Configure the Placeholders tab as follows:

Allow MOS object creation	✓
Default MOS object creation device	✓
Allow automatic MOS object creation	✓
Use the <mosObjCreate> message	✓
Default duration of created MOS objects	00:00:00:00
Naming pattern of created MOS objects	%NAME

10. On the Other tab, configure as follows:

Send and receive times in UTC	✓
-------------------------------	---

11. Click **OK**.

Creating an ActiveX Device for Octopus

You need to create an ActiveX device before using Octopus with GV STRATUS.

1. Launch the Octopus client, and click the **Devices** button.

The **Devices** page opens.

2. Highlight the MOS ID for GV STRATUS.
3. Click the **Edit** button on the toolbar.

The **Device** window opens.

4. Select the **Plugins** tab, and click **Add**.

The **Plugin** window opens.

5. Configure the device as follows:

Option	Setting
Short Name	User preference (e.g., GV Plug-in)
Long Name	User preference (e.g., GV STRATUS Plug-in)
Size	800 width x 600 height
Type	Player (ActiveX)
Version	1.0 ENPS
Platform	ActiveX
Placement	Modeless
Implementation	GV.STRATUS.1

6. Click **OK** twice.

GV STRATUS Operation considerations

- On the K2/STRATUS system do not exceed the following maximum amounts:
 - Maximum bin depth: 9
 - Maximum number of markers/asset: 100
 - Maximum number of assets/page: 2500 in the 32-bit application, 10000 in the 64-bit application
 - Maximum number of search results: 2000 in the 32-bit application, 5000 in the 64-bit application
 - Maximum number of jobs monitored: 2000 in the 32-bit application, 5000 in the 64-bit application
 - Maximum K2 database size: 80 MB

- If a Dell server that is a GV STRATUS "Engine" server is on a redundant K2 SAN, Grass Valley recommends two media network (iSCSI) connections on the server, one to the A side of the K2 SAN and one to the B side of the K2 SAN. If such a server is connected to just one side of a redundant K2 SAN and a failover occurs on the K2 SAN, you must shut down the server if it is on the "failed" side of the K2 SAN.
- The Render Engine generates proxy media for high-resolution clips with one video track. Clips with more than one video track are not supported.
- Rename bins with careful considerations. A bin containing a large number of assets can consume system resources for an extended period of time while the rename operation is applied. To rename bins, you must be assigned **Rename Bin Rights** in GV STRATUS Control Panel. If GV STRATUS security settings are enforced, you must have adequate permissions. If not, menu selections are disabled. Rename operation also cannot be completed if assets in the bin are locked or in-use.

GV STRATUS Rundown Operation considerations

- For GV STRATUS Rundown to work in Windows 7, you need to disable the User Account Control in your machine. Refer to [Disabling User Account Control for GV STRATUS Rundown on Windows 7 clients](#) on page 33 for more information in these release notes.
- It is not possible for GV STRATUS Control Panel running on Windows Server 2008 or Windows 7 machine to remotely write into the registry of SDB or XMOS machine running on Windows XP. This is due to a Microsoft .NET Framework limitation. So, users with SDB and XMOS running on Windows XP machines need to configure their SDB and XMOS servers manually.
- For GV STRATUS Control Panel to successfully configure SDB and XMOS servers, the same administrator login account need to exist on GV STRATUS Control Panel machine and SDB / XMOS machines.
- The graphics workflow with Orad's Maestro On Air Graphics System and Aurora Edit is only supported in GV STRATUS Rundown (formerly known as Aurora Layout) version 7.1.1 and below.
- Windows 2000 that was supported in previous versions of GV STRATUS Rundown software is no longer supported.

GV STRATUS VTR Ingest Operation considerations

- If multiple clients are pointed to the same VTR, each client will report a successful connection. When operating the VTRs, however, the multiple clients may interfere with each other. It is important to allocate VTRs properly so collisions of this nature do not occur.
- Records have a frame accuracy recording window of +/- 3 frames for the GV STRATUS VTR Ingest with K2.
- When controlling a VTR that is in 720p mode, transport commands, such as single frame and ten frame advances may not be frame accurate.

GV STRATUS Version compatibility

Versions qualified for compatibility with this version of GV STRATUS software are summarized in the following sections.

System requirements for GV STRATUS client PC

All systems require one or more GV STRATUS client PCs. Verify that all GV STRATUS client PCs meet system requirements.

Virtual Machines, Remote Desktop, and other modes of remote access are not supported. Lack of robust video/graphic support can cause video display problems.

GV STRATUS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running one or more of the following:

- The GV STRATUS application with a proxy media workflow.
- The GV STRATUS Control Panel application.
- The SiteConfig application.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 32-bit or 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS/EDIUS XS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running the following:

- The GV STRATUS application and the EDIUS XS application, with a proxy media workflow.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better

Characteristic	Specification
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit NOTE: 64-bit required for EDIUS XS
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS high-resolution workstation

These requirements apply to a PC running the following:

- The GV STRATUS application with a high-resolution media workflow. This requires access to high-resolution assets.
- The EDIUS Workgroup application with a high-resolution media workflow. This requires access to high-resolution assets.

Characteristic	Specification
Processor	Two Intel Xeon 5410 Quad Core 2.33GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	100GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Dual Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

Compatible GV STRATUS components

The following components are part of GV STRATUS products. Components are compatible with this release of GV STRATUS software as listed in the following table. Compatible versions are pre-installed on GV STRATUS Servers when you receive them new from Grass Valley.

Component versions

Component	5.0 Compatible	5.0 (SP1) Compatible	Comments
GV STRATUS Application	5.0.0.370	5.0.0.378	—
GV STRATUS Control Panel	5.0.0.326	5.0.0.331	—
GV STRATUS Control Panel Service	5.0.0.3738	5.0.0.3777	—
GV STRATUS Databases	5.0.0.249	5.0.0.253	—
Common Services	5.0.0.4428	5.0.0.4476	—
Ingest Services	5.0.0.3677	5.0.0.3712	—
GV STRATUS Traffic Gateway Service	5.0.0.2665	5.0.0.2699	—
GV STRATUS HTTP Handler	5.0.0.4428	5.0.0.4476	—
Core Services	5.0.0.4428	5.0.0.4476	—
GV STRATUS Summit Services	5.0.0.4428	5.0.0.4476	—
Summit, Generic FTP, FlashNet, DIVA, Masstech MDI, and CRArchive MDI	5.0.0.4428	5.0.0.4476	—
Render Engine	8.2.5.1162	8.2.5.1420	—
GV STRATUS Mediaflow Engine	5.0.0.3059	5.0.0.3098	—
GV STRATUS Rules Engine	5.0.0.2907	5.0.0.2942	—
GV STRATUS Xcode Engine	5.0.0.2909	5.0.0.2947	—
GV STRATUS DataMover Engine	5.0.0.2916	5.0.0.2963	—
GV STRATUS Scheduled Transfer Engine	5.0.0.1607	5.0.0.1644	—

Component	5.0 Compatible	5.0 (SP1) Compatible	Comments
GV STRATUS Event Viewer	5.0.0.2621	5.0.0.2655	—
GV Log Manager	5.0.0.279	5.0.0.289	—
GV Log Viewer	5.0.0.326	5.0.0.331	—
GV Embedded Security Manager	1.0.0.19	1.0.0.19	—
GrassValley_STRATUSClient cab file	5.0.0.303	5.0.1.308	Contains compatible software install cab files for GV STRATUS client PCs
GrassValley_CoreServer cab file	5.0.0.303	5.0.1.308	Contains compatible software install cab files for GV STRATUS servers
GrassValley_K2system cab file	5.0.0.303	5.0.1.308	Contains compatible software install cab files for K2 systems

Grass Valley products compatible with GV STRATUS

Grass Valley products are compatible with this release of GV STRATUS software as follows:

Product	5.0 Compatibility	5.0 (SP1) Compatibility	Comments
K2 Summit/SAN system software	9.7.0.2445	9.7.0.2445	With compatible version of SNFS. Refer to the "Release Notes" section of the K2 Topic Library.
GV STRATUS Rundown	10.0.0.7	10.0.0.7	—
GV STRATUS VTR Ingest	10.0.0.5	10.0.0.5	—
EDIUS	8.2.5.1162	8.2.5.1420	—
K2 FCP Connect	2.3.0.71	2.3.0.71	—
SiteConfig	2.1.1.625 and higher	2.1.1.625 and higher	—
SiteConfig Discovery Agent	2.1.1.202	2.1.1.202	—
Grass Valley Prerequisite Files	2.0	2.0	Required by SiteConfig to support software installation of GV STRATUS Rundown.
K2 Dyno Replay Controller	3.7.0.489	3.7.0.489	—
K2 Dyno PA	2.0.2.1870	2.0.2.1870	—
NetCentral	5.2.2.10 and higher	5.2.2.10 and higher	—

Product	5.0 Compatibility	5.0 (SP1) Compatibility	Comments
K2 TimeDelay	9.2.0.23	9.2.0.23	—
SabreTooth	2.7.1.12	2.7.1.12	—
K2 Avid	7.0.0.199	7.0.0.199	With Interplay Engine v3.5
Adobe® Premiere® Pro CC plug-in extension	5.0.0.30 with Adobe® Premiere® Pro CC (2015)	5.0.0.30 with Adobe® Premiere® Pro CC (2015)	—
	5.0.0.31 with Adobe® Premiere® Pro CC (2017)	5.0.0.31 with Adobe® Premiere® Pro CC (2017)	
Ignite	7.7.8	7.7.8	—

Third party products compatible with GV STRATUS

Products by manufacturers other than Grass Valley are compatible with this release of software as follows:

Product	5.0 Compatibility	5.0 (SP1) Compatibility	Comments
ENPS Server	8.0.0.203	8.0.0.203	—
ENPS Client	8.0.0.203	8.0.0.203	—
iNEWS Server/Client/MOS Gateway	5.4.0.32 / 5.4.0.76 / 4.2.1.21	5.4.0.32 / 5.4.0.76 / 4.2.1.21	—
Octopus	8.0	8.0	—
NIS Web client	5.6.6	5.6.6	—
OpenMedia Server/Client	4.2.1917	4.2.1917	—
Netia	8.2	8.2	—
Inception	9.3.0	9.3.0	—
MOS	2.8.2	2.8.2	—
Aspera Enterprise Server	3.5.4.100599	3.5.4.100599	—
Harmonic ProMedia™ Carbon (formerly Carbon Coder™)	3.24.0.48292	3.24.0.48292	—
Telestream Vantage™	6.3.56.139227	6.3.56.139227	—

Product	5.0 Compatibility	5.0 (SP1) Compatibility	Comments
Harmonic WFS	2.2.0.6	2.2.0.6	—
Elemental	2.2.1.22	2.2.1.22	—
MEWS	3.1.0.314	3.1.0.314	—
Front Porch Digital DIVArchive software	7.3.1.109	7.3.1.109	Check with your Grass Valley representative.
SGL FlashNet software	6.7.0.2 6.8.01.011	6.8.01.011	—
Masstech	8.0.1.7	8.0.1.7	—
Generic FTP	0.9.57	0.9.57	Generic FTP archive with FileZilla and a nearline K2 SAN is supported. Other generic FTP archive configurations are not supported.
Final Cut Pro	7.0.3 with Mac OS X 10.10.5	7.0.3 with Mac OS X 10.10.5	—
Avid Media Composer	8.5.3	8.5.3	—
Adobe® Premiere® Pro CC (2015)	10.4.0 (30) with Windows and Mac OS X 10.11.4	10.4.0 (30) with Windows and Mac OS X 10.11.4	Grass Valley regularly qualifies new versions. Check with your Grass Valley representative for updates.
Adobe® Premiere® Pro CC (2017)	11.0.1 (6) with Windows and Mac OS X 10.11.6	11.0.1 (6) with Windows and Mac OS X 10.11.6	To install the GV STRATUS security certificate, please refer to: <i>Installing GV STRATUS security certificate for Adobe Premiere Pro</i>
Extension Manager Command Line tool for Adobe® Premiere® Pro CC	7.3.2.146 for Windows 7.3.2.145 for Mac	7.3.2.146 for Windows 7.3.2.145 for Mac	—
McAfee Solidifier	6.1.1.369	6.1.1.369	—

GV STRATUS archive support

Features and formats supported for integration with archive systems are as follows:

Table 1: Partial file restore

Supported	SGL FlashNet	Front Porch Digital DIVA	Masstech	Generic FTP
GXF	Yes	Yes	No	No
MXF	Yes	Yes	Yes. Check with your Grass Valley representative for supported video codecs. Partial file restore is not supported for XAVC format.	No
		NOTE: 64 audio tracks are not supported for partial file restore of MXF on 720p format for DIVA.		
		NOTE: Audio tags are not supported for partial file restore in MXF format for Masstech.		

NOTE: Audio tags are not supported for partial file restore in GXF format for all archive vendors.

GV STRATUS Rundown Version compatibility

Versions qualified for compatibility with this release of software are summarized in the following sections.

GV STRATUS Rundown System specifications

This section describes the hardware requirements that customers should use when purchasing equipment for this release. The minimum spec describes the bare minimum requirement for running GV STRATUS Rundown, which may reduce the quality of user experience, depending on the task. The expected lifespan of minimum spec equipment is also less than that of recommended spec equipment, since it lacks head room for future growth.

NOTE: Minimum specs for SD configurations are provided only for existing SD customers upgrading to this release. New customers should use HD configurations.

GV STRATUS Rundown

	MINIMUM Spec	RECOMMENDED Spec
Processor	Intel Core 2 Dual Core 2.3 GHz	Intel Core i3-2120 3.3GHz
Memory	1 GB (for 32 bit OS)	2 GB (for 32 bit OS)
	2 GB (for 64 bit OS)	4 GB (for 64 bit OS)

	MINIMUM Spec	RECOMMENDED Spec
Graphics	Integrated or discrete graphics with 128 MB of memory and support for Direct3D 9 and Shader Model 3.0	Discrete graphics with 128 MB of dedicated memory and support for Direct3D 9 and Shader Model 3.0
System Drive	80 GB 7200 RPM SATA	80 GB 7200 RPM SATA
Optical Drive	CD/DVD	CD/DVD
Network	Gigabit Ethernet (2)	Gigabit Ethernet (2)
Operating System	Microsoft Windows 7 SP1 (32/64-bit)	Microsoft Windows 7 SP1 (32/64-bit)
Notes	It is the customer's responsibility to ensure that the system has sufficient number and type of expansion slots to meet the intended use. GV STRATUS Rundown requires one free PCI slot for each Control 422 and Sealevel GPIO board.	

Grass Valley products compatible with GV STRATUS Rundown

Grass Valley products are compatible with this release of software as follows:

Product	Compatibility with GV STRATUS 5.0	Compatibility with GV STRATUS 5.0 (SP1)	Comments
EDIUS	8.2.5.1162	8.2.5.1420	—
Generic iSCSI Installer	3.3.2.1401 or 7.4.3.x or 8.1.9.x or 9.7.0.2445	3.3.2.1401 or 7.4.3.x or 8.1.9.x or 9.7.0.2445	—
GVG_MLib Installer	3.3.2.1401 or 7.4.3.x or 8.1.9.x or 9.7.0.2445	3.3.2.1401 or 7.4.3.x or 8.1.9.x or 9.7.0.2445	—
K2 system software	3.3.2.1401 for K2 Media Client	3.3.2.1401 for K2 Media Client	With compatible version of SNFS.
	7.4.3.x for K2 Summit Production Client	7.4.3.x for K2 Summit Production Client	
	8.1.9.x for K2 Summit Production Client	8.1.9.x for K2 Summit Production Client	
	9.7.0.2445 for K2 Summit 3G Production Client	9.7.0.2445 for K2 Summit 3G Production Client	
GV STRATUS application	5.0.0.370	5.0.0.378	—
SiteConfig application	2.1.1.625 and higher	2.1.1.625 and higher	—
SiteConfig Discovery Agent	2.1.1.202	2.1.1.202	—

Product	Compatibility with GV STRATUS 5.0	Compatibility with GV STRATUS 5.0 (SP1)	Comments
Grass Valley Prerequisite Files	2.0	2.0	Required by SiteConfig to support software installation of GV STRATUS Rundown.

Third party products compatible with GV STRATUS Rundown

Products by manufacturers other than Grass Valley are compatible with this release of software as follows:

Product	Compatibility with GV STRATUS 5.0	Compatibility with GV STRATUS 5.0 (SP1)	Comments
ENPS Server	8.0.0.203	8.0.0.203	—
ENPS Client	8.0.0.203	8.0.0.203	—
iNEWS Server/Client/MOS Gateway	5.4.0.32 / 5.4.0.76 / 4.2.1.21	5.4.0.32 / 5.4.0.76 / 4.2.1.21	—
Netia	8.2	8.2	—
Octopus	8.0	8.0	—
Inception	9.3.0	9.3.0	—
NIS Web client	5.6.6	5.6.6	—
OpenMedia Server/Client	4.2.1917	4.2.1917	—
MOS	2.8.2	2.8.2	—

GV STRATUS VTR Ingest Version compatibility

For compatible Grass Valley products and third party products, refer to related topics in this Topic Library.

GV STRATUS VTR Ingest system specifications

This section describes the hardware requirements that customers should use when purchasing equipment for this release. The minimum spec describes the bare minimum requirement for running GV STRATUS VTR Ingest and GV STRATUS VTR Controller, which may reduce the quality of user experience, depending on the task. The expected lifespan of minimum spec equipment is also less than that of recommended spec equipment, since it lacks head room for future growth.

NOTE: *Minimum specs for SD configurations are provided only for existing SD customers upgrading to this release. New customers should use HD configurations.*

GV STRATUS VTR Ingest and GV STRATUS VTR Controller

	MINIMUM Spec	RECOMMENDED Spec
Processor	Intel Core i3-2120 3.3GHz	Two Intel Xeon 5410 Quad Core 2.33GHz
Memory	4GB RAM	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better	Integrated or discrete graphics with Direct 3D 9 or better
System Drive	80GB 7200RPM hard drive	100GB 7200RPM hard drive
Optical Drive	CD-ROM drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface	Dual Ethernet 1000 Base-T network interface
OS	Microsoft Windows 7 32-bit or 64-bit	Microsoft Windows 7 64-bit
Other support	DirectX 9 compatible	DirectX 9 compatible

Licensing GV STRATUS products

The following sections contain instructions for managing GV STRATUS product licenses.

Licensing a GV STRATUS system

Licenses are requested through email and managed through the SabreTooth License Manager, which is installed on the Grass Valley product with the Grass Valley software. The SabreTooth License Manager must be located on the Grass Valley product.

License information is stored in XML files that you can manage just like any other file on your system. Node-locked licenses are unique to the system for which they are requested and cannot be used on any other machine. A floating license can be used on multiple machines, one at a time. You should back up the license text files to a separate drive or as part of a recovery image.

Licenses are based on your system's unique identifier, which is partially derived from your system's Media Access Control (MAC) address. If you change your system's MAC address by performing operations such as changing the System Processor card, you must obtain a new license based on the new MAC address.

To license a GV STRATUS system, one or more licenses must be installed on the GV STRATUS server with role of Common Services. If the system has a server that does proxy encoding, one or more licenses for proxy encoding must be installed on that server as well.

Related Topics

Devices components: Roles, cab files, services, and licenses on page 375

About GV STRATUS Rundown software licensing

If you want to use the GV STRATUS application within GV STRATUS Rundown, you need to install the STRATUS-ELITE license on the GV STRATUS Core Services server. The GV STRATUS Rundown application checks for the STRATUS-ELITE license in order for you to operate in both GV STRATUS and GV STRATUS Rundown environments.

Licenses are requested through email and managed through the SabreTooth License Manager, which is installed on the Grass Valley product with the Grass Valley software. The SabreTooth License Manager must be located on the Grass Valley product.

License information is stored in XML files that you can manage just like any other file on your system. Node-locked licenses are unique to the system for which they are requested and cannot be used on any other machine. A floating license can be used on multiple machines, one at a time. You should back up the license text files to a separate drive or as part of a recovery image.

Licenses are based on your system's unique identifier, which is partially derived from your system's Media Access Control (MAC) address. If you change your system's MAC address by performing operations such as changing the System Processor card, you must obtain a new license based on the new MAC address.

GV STRATUS Rundown licenses

The Grass Valley licenses available at the time of this writing that can be installed on GV STRATUS Rundown are as follows. Contact your Grass Valley representative for more information about licenses.

GV STRATUS Rundown licenses

License	License type
Aurora GFX	SabreTooth
STRATUS-ELITE	SabreTooth

GV STRATUS VTR Ingest licenses

The Grass Valley licenses available at the time of this writing that can be installed on GV STRATUS VTR Ingest are as follows. Contact your Grass Valley representative for more information about licenses.

GV STRATUS VTR Ingest licenses

License	License type
STRATUS-VTR-ING	SabreTooth

NOTE: The licensing is based on per concurrent user. A single license permits the use of GV STRATUS VTR Ingest application by a single user at a time. For multiple concurrent sessions, you must purchase multiple licenses.

Licensing EDIUS

If using EDIUS XS or EDIUS Workgroup with GV STRATUS, you must ensure the appropriate licenses are in place, as follows:

- EDIUS XS: This license is installed on GV STRATUS Core server and managed by GV STRATUS Sabretooth license management. The GV STRATUS system must have a Flex, Pro, or Elite license.
- EDIUS Workgroup: Three licenses are required to be installed on the client PC that hosts the GV STRATUS and EDIUS Workgroup applications. These licenses are managed by EDIUS license management, rather than GV STRATUS Sabretooth license management.
 - EDIUS Workgroup license
 - EDIUS K2 Option license
 - EDIUS STRATUS Option license

On client PCs, only one EDIUS license type is supported. Do not install both EDIUS XS and EDIUS Workgroup on the same PC.

Requesting a license

Features for your GV STRATUS system are enabled by SabreTooth licenses. For each server you are licensing, you must provide a generated unique ID to Grass Valley. Grass Valley uses the ID to create your unique license.

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. Generate a unique ID of the device where you will install software, as follows:
 - a) Double click on the License Manager icon on the Windows Desktop.
The SabreTooth License Manager opens.
 - b) Choose **File | Generate Unique Id** the License Manager.
 - c) Click **Copy to clipboard** to copy the generated ID, and **OK** to exit.
3. Prepare an email that includes the following information:
 - Customer Name
 - Customer Email
 - Sales Order Number
 - Unique ID of the device where you will install software.
 - The license types you are requesting.
4. Send the email to GrassValleyLicensing@grassvalley.com.

The SabreTooth license number will be emailed to the email address you specified.

Next add the license to the SabreTooth License Manager.

Adding a license

Your software license, *Licenses_<SalesNumber>.txt*, is provided as a text file. Use the License Manager to add this file to your system and enable the desired feature.

1. Double click on the License Manager icon on the Windows Desktop.
The SabreTooth License Manager opens.
2. Do one of the following:
 - Choose **File | Import License** and navigate to the file location to open the text file.
 - Drag and drop the text file onto the License Manager.

You will now see the permanent license in SabreTooth, as well as any other licenses, permanent or temporary, that have been installed on this machine.

You should archive the permanent license to a backup system.

Deleting licenses

Deleting a license disables the feature that it enabled. You might want to delete a temporary license prior to its expiry if you have decided not to purchase the feature. You can delete a temporary license after the permanent license has been installed without disabling the licensed product.

1. Select the license in the SabreTooth License Manager.
2. Use the Delete key on your keyboard or right click with your mouse and select **Delete**.

Archiving licenses

You can archive your licenses to a secure external location. This allows you to quickly re-install a license should it be deleted or should you have to downgrade and then re-license the software. You can archive multiple licenses at the same time.

NOTE: *If you downgrade to an earlier version of the licensed software, make sure to archive the licenses first.*

1. In the SabreTooth License Manager, select the license or licenses.
2. Choose **File | Export License** to open the Save As dialog box.
3. Assign a meaningful name to the file, and save it to the desired location. Grass Valley recommends saving the license file to a USB drive or other external location.

GV STRATUS Known Problems

The following limitations are present in this release of software. If you wish to obtain more information about these limitations, please mention the reference numbers.

DE207	Description:	Channel Panel record stops after a few seconds when K2 Summit/SAN storage is full. The GV STRATUS application does not indicate that storage is full.
ncb00061909		
STR-6691	Workaround:	Create free space in K2 Summit/SAN storage before recording.

DE487 ncb00038625 STR-6425	Description:	An undocked panel, when located on a GV STRATUS client PC's secondary monitor, does not remain maximized if the GV STRATUS application is minimized then restored.
	Workaround:	After minimizing/restoring the GV STRATUS application, adjust undocked panels on secondary monitors.
DE543 ncb00061357 STR-6373	Description:	In the GV STRATUS application there is no indicator that identifies a clip as a Super Slo-Mo clip.
	Workaround:	View clips in the K2 AppCenter application to identify Super Slo-Mo clips.
DE550 ncb00061426 STR-6366	Description:	In a list details mode, applying a column filter can make scroll bars disappear, resulting in the inability to scroll to the desired location in the list. This occurs if the list is large enough to require scroll bars and then scrolling to the right to apply a column filter. If the filter yields an empty list that does not require scroll bars, there is no scroll bar available to scroll back to the left.
	Workaround:	Right-click the list, select Filters , and in the dialog box that opens modify the filters.
DE963 ncb00074829 STR-6064	Description:	In the Navigator panel, moving or copying files between folders on the local STRATUS client PC fails.
	Workaround:	Use Windows Explorer to move or copy files on the local PC.
DE992 ncb00074841 STR-6035	Description:	When using the K2 AppCenter Consolidate Media feature, the resulting change to the asset is not displayed in the GV STRATUS application.
	Workaround:	Do not use the Consolidate Media feature on assets you intend to use in the GV STRATUS application.
DE1077 ncb00074817 STR-5960	Description:	When viewing a Jobs list of transfers, some transfer job thumbnails are not displayed. This occurs when applying refresh and if the source or destination asset is moved or if the transfer is aborted/cancelled.
	Workaround:	None. This behavior is expected, since the thumbnail is obtained from the source or destination asset.
DE1281 ncb00074834 STR-5771	Description:	Proxy media does not load after regenerating proxy if the asset remains open in Inspector.
	Workaround:	<ol style="list-style-type: none"> 1. Load an asset into Inspector that does not have proxy media. 2. Regenerate proxy for that asset. 3. Load a different asset into Inspector. 4. Load the asset for which you regenerated proxy. Now the proxy media loads.
DE1323 ncb00074846 STR-5731	Description:	Renaming a bin removes the bin from the Favorites node.
	Workaround:	Add the renamed bin to the Favorites node again.

DE1878 ncb00075564 STR-5259	Description:	Assets deleted on K2 Dyno appear in the GV STRATUS Lost and Found bin.
	Workaround:	Delete the assets from the GV STRATUS Lost and Found bin.
DE1957 ncb00075565 STR-5195	Description:	A change to the router source is not shown in Scheduler tool.
	Workaround:	Restart the GV STRATUS application after changing the router source.
DE2709 ncb00076221 STR-4693	Description:	Wrong Mark In/Out display on Asset List for the merged import of trimmed clips via the RMI tool.
	Workaround:	Drag the imported clip into the Inspector and select Relationships Markers tab to view the correct Mark In/Out display in the Inspector panel.
DE2998 ncb00076113 STR-4462	Description:	The new name is not displayed in GV STRATUS Control Panel Authorization Manager when renaming a group or user.
	Workaround:	Restart the GV STRATUS Control Panel application.
DE3074 ncb00076116 STR-4397	Description:	In SiteConfig, when doing the "Check Software" operation on a SAN-attached K2 Summit system, the operation can fail with RTP error 5.
	Workaround:	Put the SAN-attached K2 Summit system in Update Mode before doing the "Check Software" operation.
DE3130 ncb00076120 STR-4358	Description:	The default value for the maximum amount of loaded Workflows in the Workflow Engine is set to -1 (unlimited).
	Workaround:	You can change this configuration to limit the max number of concurrent workflows, if necessary to achieve the desired performance at a customer site.
DE3542 ncb00076390 STR-4158	Description:	A custom metadata field appears in an Asset List and cannot be removed. This occurs when a custom metadata field is added that has the same name as a field that was previously deleted.
	Workaround:	Before deleting a custom metadata field, rename it to a name that you will not use again.
DE3571 ncb00076391 STR-4141	Description:	GV STRATUS is unable to play legacy proxy that has 44.1kHz audio.
	Workaround:	To get audio, the video should be restored from archive and the proxy should be regenerated..
DE3811 ncb00076395 STR-4005	Description:	MXF and QuickTime export fails when exporting a list created in Storyboard Editor. This occurs if one or more clips in the list have no ancillary data track and fewer than four audio tracks, which creates empty tracks that are not compatible with the export format.
	Workaround:	Ensure clips have an ancillary data track and four or more audio tracks.

DE3853 ncb00076397 STR-3988	Description:	Removing channels in Ingest configuration with auto-assigned events still scheduled on that channel will cause the events to start recording on other channels during the event start time.
	Workaround:	Remove all events that have been set to Auto-Assign before removing the channel.
DE4389 ncb00076566 STR-3786	Description:	An asset cannot be added to a Storyboard list, conformed, or used to generate proxy. This occurs if the clip has one or more video, audio, or data track modified in K2 AppCenter. This can change the clip to a "Sequence" asset in the GV STRATUS application and limit its use.
	Workaround:	Use EDIUS to modify asset tracks.
DE4576 ncb00076634 STR-3687	Description:	When deleting an asset from a location, if the asset has multiple high-resolution associations, all high-resolution associations in all locations are deleted. For more information refer to the related topic about asset copies and deletions in this Topic Library.
	Workaround:	To delete a high-resolution association, do the following: <ol style="list-style-type: none"> 1. Load the asset into the Inspector. 2. Click on the Associations tab. 3. Select and delete the desired high-resolution association from the tab.
DE4577 ncb00076634 STR-3686	Description:	Copying assets back and forth between the same locations on different K2 storage systems results in unexpected behavior. Automatic rename and overwrite features do not produce the expected asset names and associations.
	Workaround:	Once an asset is copied to a different K2 storage location, do not copy it back to its original location.
DE5183 ncb00076807 STR-3367	Description:	Transfers and sends between local and remote GV STRATUS sites have unexpected results if a transferred asset already exists at the destination. The destination asset is overwritten with no warning. This applies to transfer and to Send Destination.
	Workaround:	Delete or rename assets so that assets to be transferred or sent do not exist at the destination.
DE5250 ncb00076805 STR-3324	Description:	A playlist has no thumbnail and is empty. This occurs if the playlist was created, then deleted, on a connected K2 Dyno Replay Controller.
	Workaround:	In the GV STRATUS application, delete the playlist.
DE5301 ncb00076803 STR-3290	Description:	"Video Playback Is Not Available" displays in Inspector when attempting to play a subclip with no proxy association. This can occur when using a high-resolution workflow to create subclips, such as on high-resolution GV STRATUS client, editor, or a K2 Dyno Reply Controller, and the parent clip has no proxy association.

	Workaround:	Make sure the high-resolution parent clip has a proxy association by using a clip recorded on a K2 Summit channel that immediately creates proxy files, or by waiting until a GV STRATUS Proxy Encoder generates proxy files for the high-resolution parent clip.
DE5394 ncb00076829 STR-3229	Description:	Local proxy video is missing and cannot be generated for an asset transferred from a remote site to the local site. This occurs if the asset is not of type "Clip", such as a subclip or a list.
	Workaround:	Export/import MXF or MOV formats rather than remote transfer. Or, once transferred, conform the asset. Both of these workarounds result an asset of type "Clip".
DE6605 ncb00077068 STR-2729	Description:	When the Conform Engine renders a complex MPEG2 asset, the resulting simple clip is in a higher video format (bitrate) than that specified in GV STRATUS Control Panel Format settings.
	Workaround:	This is as designed. The bitrate is increased to the minimum required to avoid encoding issues.
DE10959 STR-385	Description:	When recording in Scheduler with a set duration, the resultant clip is shorter than the duration set. This occurs after changing the NTSC/PAL reference standard in GV STRATUS Control Panel General Format Formats .
	Workaround:	After changing the reference standard, restart the Core/Express server to recalibrate the record duration setting.
DE11592 KT-48	Description:	MOV imports are failing randomly but very often on GV STRATUS ISILON system.
	Workaround:	Use MXF/GXF imports or transcode during import using rules.
STR-40993	Description:	Assets could not be loaded when a Summit MDI is deleted with the "Delete MDI Only" option selected, and then re-added with a different port number.
	Workaround:	Configure the new Summit MDI to use the same port number as the deleted Summit MDI.
STR-42062	Description:	If a Summit MDI is renamed, then all rules configured to that Summit MDI stopped working.
	Workaround:	Change every rule associated with the renamed Summit MDI to point to the new Summit MDI name.
STR-49479	Description:	GV Embedded Security Manager fails to uninstall version 1.0.0.16, which is part of the K2 Summit image.
	Workaround:	Check Software via SiteConfig on each K2 Summit after the failure. The uninstall task of version 1.0.0.16 comes back and works on a second try.
STR-49672	Description:	K2 Central displays as "Unable to connect" on Core Proxy Config Test Connections tab of the GV STRATUS Control Panel.
	Workaround:	Start the GV STRATUS K2 Configuration Service on the K2 Central manually.

GV STRATUS Rundown Known Problems

The following limitations are present in this release of software. If you wish to obtain more information about these limitations, please mention the reference numbers.

GV STRATUS Rundown

CR42885	Description:	If GV STRATUS Rundown doesn't play all the way through your playlist when using the Archive Play feature, there may be a problem with the black clip that is used as filler between clips.
	Workaround:	Make sure that you have a clip called "BLACK" (all uppercase) in the same bin on the Media Server where you send stories for playout (normally the "default" bin). One way to create this clip is to insert 10 seconds of filler into an otherwise empty EDIUS sequence and send it to the playout bin.
CR68152	Description:	A K2 version 3.2 playout system supports a maximum of only eight channeless AMP connections at one time (this is separate from the channeled connections that are used for playback).
	Workaround:	Make sure only eight channeless AMP connections are activated at a time. So, for example, only one SDB Server connection and seven Housekeeper connections to a K2 can be configured at a time.
CR68611	Description:	Problems with updating the Ready status of clips.
	Workaround:	More than one GV STRATUS Rundown system should not be configured to connect to the same channel on a K2 as this can cause problems with updating the Ready status of clips.
PR20458	Description:	When installing GV STRATUS Rundown on Windows 7 clients, a pending SiteConfig dialog can be missed.
	Workaround:	When a dialog is pending, a blinking icon displays on the Windows 7 task bar. Clicking on this indicator brings up the dialog that takes you to the isolated session. If you are logged in via remote desktop, the interactive services detection service sends a notification about the pending dialog. If the notification has been missed, go into Windows Services and stop and restart the Interactive Services Detection Service. This causes the service to send an immediate notification about the pending dialog.
ncb00077242	Description:	Placeholder status in ALP updates slowly or does not update at all.
	Workaround:	<ol style="list-style-type: none">1. Do not put the shortcut into "all users" startup with the installer.2. Do not put the database in the Programs directory.3. Do not allow multiple instances of XMOS and SDB servers to launch.

Newsroom Computer System (NCS)

CR34585	Description:	When working with iNEWS rundowns, the Rundown Bar window in GV STRATUS Rundown will always display "NOT READY" in the Status column.
	Workaround:	This column is designed to work with the "MOS Ready to air" property that is available with ENPS rundowns. Since this feature is not applicable with iNEWS rundowns, you may wish to resize the Status column to its minimum size when connected to an iNEWS system.
CR35882	Description:	The connection between iNEWS rundowns is lost and then re-established (such as by rebooting the iNEWS server).
	Workaround:	Re-monitor your rundowns through iNEWS before they will be available in GV STRATUS Rundown's dropdown list.
CR35932	Description:	When connected to a Newsroom Computer System, channel assignment or status changes that were made through the GV STRATUS Rundown interface will be reset if the item's rundown position is changed on the NCS.
	Workaround:	This is by design. If you wish to keep manual channel assignments when reordering items, you can assign channels through the NCS, rather than through GV STRATUS Rundown.
CR44269	Description:	In ENPS client, the Actual column couldn't be updated with the Editorial Duration set for the GV STRATUS Rundown placeholder.
	Workaround:	In the ENPS client, the script window for a story must be closed before the Actual column will be updated with the Editorial Duration set for the GV STRATUS Rundown placeholder.
CR44677	Description:	When media is sent to a placeholder that is embedded in an iNEWS story, the Clip Duration column in the iNEWS client will not update. This problem is no longer applicable to iNEWS version 4.0 and above, with GV STRATUS Rundown version 8.2 and above.
	Workaround:	The duration will update if the media is first sent to the placeholder and then added to the iNEWS story.
CR49674	Description:	Differences in MOS status reporting could lead to Octopus not operating correctly with GV STRATUS Rundown.
	Workaround:	Octopus users need to make these following changes to the Statuses tab within Admin MOS Devices of the Octopus application: <ol style="list-style-type: none"> 1. Change CUED status to STAND BY. 2. Change PLAYED status to END.
CR63446	Description:	Trimming a clip in a GV STRATUS Rundown channel will not affect the duration that displays on a Newsroom Computer System.
	Workaround:	None.

CR69097	Description:	Status translation table in mosconfig.xml on the iNEWS MOS Gateway system did not operate correctly with GV STRATUS Rundown.
	Workaround:	<p>iNEWS users may need to make the following changes to the status translation table in mosconfig.xml on the iNEWS MOS Gateway system in order to make statuses operate correctly with GV STRATUS Rundown:</p> <ol style="list-style-type: none">1. Change <code><statusCued>CUED</statusCued></code> to <code><statusCued>STAND BY</statusCued></code>.2. Change <code><statusStopped>PLAYED</statusStopped></code> to <code><statusStopped>END</statusStopped></code>.

GV STRATUS VTR Ingest Known Problems

The following limitations are present in this release of software. If you wish to obtain more information about these limitations, please mention the reference numbers.

GV STRATUS VTR Ingest

DE6608	Description:	In the K2 AppCenter, the recorded clip that showed the mark in
KT-479		and mark out do not match with the embedded LTC in the clip.
	Workaround:	None.

GV STRATUS Upgrade

Upgrading GV STRATUS systems

This section contains the tasks necessary for upgrading to this release of GV STRATUS software using the SiteConfig application. Work through the tasks sequentially to complete the upgrade.

NOTE: *These upgrade instructions assume that current software is at version 4.8 or version 4.5. If you have a lower version of software, first follow the upgrade instructions for lower versions of software as appropriate to upgrade to version 4.8 or 4.5. Then upgrade to this release of GV STRATUS software.*

⚠ CAUTION: *If you upgrade a server and then decide you do not want to stay with this version of software, you must use the recovery disk image process to downgrade to your previous version.*

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

The upgrade instructions in this document apply to the following devices:

- GV STRATUS client PC connected on the corporate LAN for low-resolution (proxy) workflow
- GV STRATUS client PC connected on the media (iSCSI) network for high-resolution workflow
- GV STRATUS servers as follows:
 - Express server
 - Core server
 - Proxy server (A1)
 - Proxy Storage file system server (B1, C1)
 - Proxy Encoder - When upgrading, must be converted to Render Engine Server
 - EDIUS XRE Server - When upgrading, must be converted to Render Engine Server
 - Workflow Server
 - Render Engine Server

The following installation tasks provide information specifically for the upgrade to this version of software. Read the information in these sections carefully before attempting any upgrade to software.

Upgrading from version 4.8 to version 5.0

Follow the topics in the section sequentially to perform the upgrade.

Summary of upgrade from version 4.8 to version 5.0

Several upgrade tasks are new or require special consideration with the upgrade from version 4.8 to version 5.0. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - SiteConfig: Before upgrading GV STRATUS, upgrade your SiteConfig application and Discovery Agent to the latest version. For more info, refer to [Grass Valley products compatible with GV STRATUS](#) on page 46.
 - GV STRATUS Database, GV Log Viewer, and GV Log Manager: These new SiteConfig roles must be assigned before upgrading the GV STRATUS system. For more details, refer to [Add software roles for upgrade to version 5.0](#) on page 69.
 - Copy Metadata, and Export Rights: After the upgrade, existing users and groups do not have these new roles assigned, so you must assign the roles if appropriate. If you create new users and groups, some roles are assigned by default, so you must remove those roles if appropriate. For more details, refer to [GV STRATUS roles matrix](#) on page 158.
 - Custom Metadata fields for markers and keywords: After the upgrade, existing users and groups do not have these new fields assigned, so a user with the Media Manager role must assign the fields if appropriate. For more details, refer to **Entity Type** in [Custom Metadata settings](#) on page 267.
 - Internal system account: If the internal system account for your GV STRATUS system is on a fully qualified domain or is not the default GVAdmin account, configure settings at GV STRATUS Control Panel **Core | STRATUS Core Services | Primary Site** as appropriate for your system.
- Systems with Windows 2008 servers:
 - Requires removal of specific Windows updates before the upgrade. For more details, refer to [Uninstall Windows updates on Windows 2008 servers](#) on page 65.
 - Requires the TCP/IP protocol to be enabled. For more details, refer to [Enable TCP/IP protocol on Windows 2008 servers](#) on page 66.
- Systems with Workflow server:
 - Requires the export of existing rules before GV STRATUS upgrade due to relocation of Rules and Workflow databases to the Core Server. For more details, refer to [Export rules for Workflow Server](#) on page 66.
- Systems with K2 Central Shared Storage:
 - Requires the configuration of K2 Summit MDI for the K2 Central system. For more details, refer to [GV STRATUS Control Panel configuration for K2 Central](#) on page 750.
- Systems with Grass Valley SMB Storage:
 - Requires the configuration of K2 Summit MDI for the Grass Valley SMB Storage. For more details, refer to [GV STRATUS Control Panel configuration for SMB storage](#) on page 743.

Make recovery images of servers

Do not do this task if:

- You previously made a recovery image at the current software version for each computer you are upgrading.

Do this task if:

- You do not have a recovery image at the current software version for one or more of the computers you are upgrading.

The recommended procedure is to make a recovery image immediately after a software upgrade. If you neglected to do this when you last upgraded software you should make the recovery image now, before upgrading to the new version.

⚠ CAUTION: *If you upgrade and then decide you do not want to stay with this version of software, you must use the recovery disk image process to downgrade to your previous version.*

Install Important Windows updates (recommended)

Grass Valley recommends the installation of all Microsoft Windows Important updates on all GV STRATUS client and server devices, except as specifically instructed otherwise by Grass Valley.

If a computer does not have the Grass Valley Embedded Security solution one-time initial deployment process applied, do not install any Windows updates. Apply the one-time process before installing Windows updates.

⚠ CAUTION: *Only “Important Updates” should be installed. Do not install other Windows or driver updates unless specifically directed by product documentation or by Grass Valley Support.*

Related Topics

[Deploy Embedded Security solution - One-time process](#)

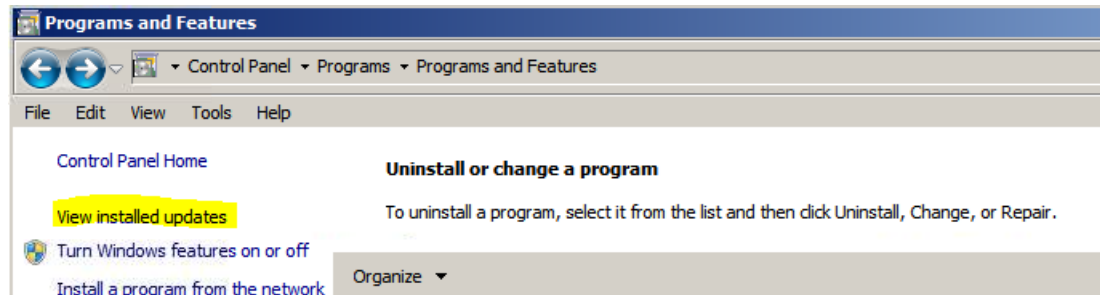
Uninstall Windows updates on Windows 2008 servers

You must uninstall these Microsoft Windows updates if you are upgrading your Dell R610 servers.

1. On Windows 2008 servers, check Windows **Control Panel | Programs and Features** for the following:
 - **KB3045685**
 - **KB3060716**
 - **KB3071756**
 - **KB3088195**
 - **KB3097877**

If these Windows updates are installed, continue with this procedure. If not installed, skip this task.

2. Select those Windows updates, and remove them via Windows **Control Panel | Programs and Features**.



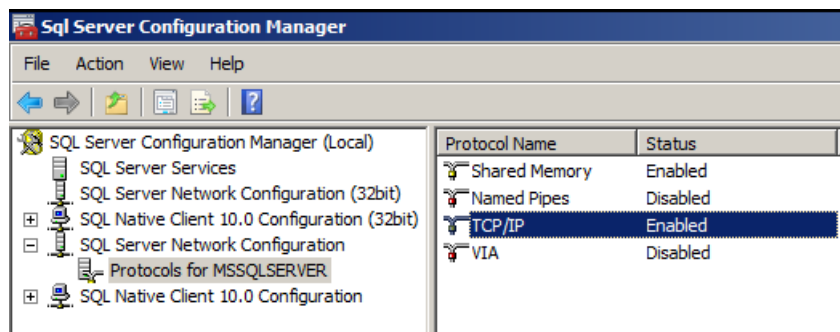
3. Run the following commands under **Start | Run**:
 - `C:\Windows\SysWow64\avsm.exe -z features disable sau`
 - `C:\Windows\SysWow64\avsm.exe -z features disable mp`
4. Restart your servers.

Enable TCP/IP protocol on Windows 2008 servers

You must enable the TCP/IP protocol if you are using Windows 2008 servers in your operation.

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2 | Configuration Tools | Sql Server Configuration**.

The Sql Server Configuration Manager opens.



2. Go to **SQL Server Network Configuration | Protocols for MSSQLSERVER**.
3. Right-click on **TCP/IP** from the list of protocols, and select **Enable**.
The protocol status displays as **Enabled**.
4. Close the Sql Server Configuration Manager and restart your servers.

Export rules for Workflow Server

If you have Rules and Workflow Engines located on a separate Workflow Server, both databases will be relocated to the Core Server machine after the GV STRATUS upgrade.

You must export rules to an XML file to avoid recreation of rules from scratch. After the GV STRATUS system upgrade, you can restore those rules via the GV STRATUS Control Panel.

1. In the GV STRATUS Control Panel application, go to **General | Rules | Rules Monitor**.

The Rules Monitor tab displays.

Workflow Engine

Rules Engine

Xcode Control Engine

DataMover Engine

Rules Monitor

Rule Editor

Name	Description	Status	Scope	Destination	Failed
Export - DMP	DMP		SummitMDI:V:/default	ftp://10.251.53.115/	218
Export - Carbon Cod...			SummitMDI:V:/default	ftp://10.251.53.115/	23
Import - Audio	From NETIA		\\10.251.52.248\outg...	SummitMDI:V:/From...	22
Import - Vantage		Enabled	\\10.251.53.115\ftproot	SummitMDI:V:/FromF...	12
Import2	various transcode for...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	1
Import4	Multiple rule condition...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
Import6	Overwrite		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
LK Import		Enabled	\\10.251.53.115\FTPT...	SummitMDI:V:/0_Imp...	0
Rule2	Rule trigger every me...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	29
Rule4	Dir changed, metadat...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	1
Rule5	Different transcoder d...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	12
Rule3	Apply rule on complet...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	11
Rule1	Rule1 - for automatio...	Enabled	SummitMDI:V:/Dyno...	\\10.251.53.115\FTPT...	155

Add

Modify

Properties

Remove

Enable

Simulate

Refresh

2. Select a rule or multiple rules that you want to export in the Rules Monitor.
3. Right-click on that rule(s) and select **Export to XML | Save selected Rule**.

You can also select **Save all Rules** if you want to export all your configured rules.

4. Browse to select the export location and click **Save**.

The rule is exported as an XML file to the selected location.

To restore those rules after the upgrade, you can go to Rules Monitor tab of the GV STRATUS Control Panel and select **Import from XML** from the context menu.

Prepare for upgrade

Before upgrading, do the following:

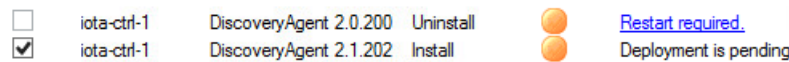
- Procure the software installation files for this release via the appropriate distribution method, such as download, network drive, or external drive.
- Stop all media access on the devices you are upgrading.
- Shut down all applications on the devices you are upgrading.
- Restart all the devices you are upgrading.

- Terminate all users' sessions using the GV STRATUS Control Panel.

Prepare SiteConfig for software deployment

Do the following to prepare SiteConfig for the software upgrade.

1. If a newer version of SiteConfig is available for upgrade and you have not yet upgraded SiteConfig, do the following:
 - a) From Windows **Programs and Features**, uninstall the current version of SiteConfig from the control point PC.
 - b) Install the new version of SiteConfig on the control point PC.
2. If a newer version of Discovery Agent is available, you must upgrade to the latest version. For more info, refer to [Grass Valley products compatible with GV STRATUS](#) on page 46.
3. Set Restart to Complete when the **Restart required** option displays on SiteConfig.



4. Install the new version of Discovery Agent on the control point PC.

Upgrade K2/Summit/SAN systems that are accessed by the GV STRATUS system

- You have procured the necessary software and documentation for the upgrade. Go to http://www.grassvalley.com/dl/k2_summit and refer to the "Release Notes" section of the K2 Topic Library to determine the compatible software versions and documentation required.
- All standalone K2 Summit systems must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again.
- If upgrading a K2 SAN, all SAN clients must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again. Depending on your system design, this could include devices such as SAN-attached K2 Summit systems, GV STRATUS servers, and GV STRATUS Client PCs.

NOTE: When upgrading from a K2 software version lower than 9.x to a K2 software version at 9.x or higher, you must reimage each K2 Summit system. Hardware upgrades might also be required on a K2 Summit system.

1. Upgrade your K2 systems to the compatible version of K2 system software. This includes K2 SAN systems and stand-alone K2 Summit systems.
When upgrading for compatibility with GV STRATUS, use *GrassValley_K2system_x.x.x.cab* file, which contains the required *GrassValley_STRATUS_SummitServices_x.x.x.cab* file.
2. On systems running Embedded Security, do the one-time initial deployment process for the Embedded Security solution, if you have not already done so.

About deploying software for the K2 SAN

You must control the sequence of software deployment tasks and device restarts as you upgrade software across the K2 SAN. The general sequence is to upgrade K2 Media Servers first then the SAN-attached K2 systems. The exact steps can vary from software version to version. Make sure

you follow the task flow in the *K2 Release Notes* for the version of software to which you are upgrading.

Related Topics

[Installing GV STRATUS application with SiteConfig](#) on page 230

Uninstall software packages

- The devices that you are upgrading must be in a deployment group.
 - A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.
1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.
The corresponding software deployment tasks are displayed in the Tasks list view.
 2. For the software you are deploying, select the **Deploy** check box in the row for the uninstall task.
 3. Unselect the **Deploy** check box for all other deployment tasks for all other software.
 4. Click the **Start Deployment** button.
Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns.
 5. Perform manual steps if indicated, such as dismissing a dialog box on the device and/or restarting the device.
 6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Add software roles for upgrade to version 5.0

Before doing this task, make sure devices are added to the SiteConfig system description with the correct family and device type. Refer to [Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148.

SiteConfig roles are new or require special consideration with this software upgrade. Verify and add roles if necessary.

1. As appropriate for your system design and licensing, in your SiteConfig system description, configure roles as follows:
 - For your GV STRATUS Express Server or Core Server, add the new role as follows:
 - GV STRATUS Database
 - For all GV STRATUS Express Server or Core Server, Proxy, Render Engine, and Workflow servers, add the new role as follows:
 - GV Log Manager
 - For the GV STRATUS Control Point PC, add the new role as follows:
 - GV Log Viewer

2. Save SiteConfig and verify in `C:\ProgramData\GrassValley\ConfigurationDataFiles\SiteConfig` that .scsd and .config files are saved to the Core server.

If you want to verify all your currently configured SiteConfig roles, refer to the complete list of roles and software packages.

Add software package to deployment group for GV STRATUS devices

- The GV STRATUS devices to which you are deploying software must have their SiteConfig roles correctly configured.
- The GV STRATUS devices to which you are deploying software must be in a deployment group.

The following software upgrade system cab files apply to GV STRATUS devices.

- `GrassValley_STRATUSClient_X.X.XX.XXXX.cab`
- `GrassValley_CoreServer_X.X.XX.XXXX.cab`
- `GrassValley_K2system_X.X.XX.XXXX.cab`

The recommended best practice is to add all system cab files to all deployment groups and allow SiteConfig to direct software to devices according to configured roles.

Refer to release notes for version information.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. Click the **Add** button.
The Add Package(s) dialog box opens.
3. Do one of the following to select the software package:
 - Select from the list of packages then click **OK**.
 - Click **Browse**, browse to and select the package, then click **Open**.
4. If one or more EULAs are displayed, accept them to proceed. If you do not accept a EULA, the associated software is not assigned to the deployment group.
SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

Related Topics

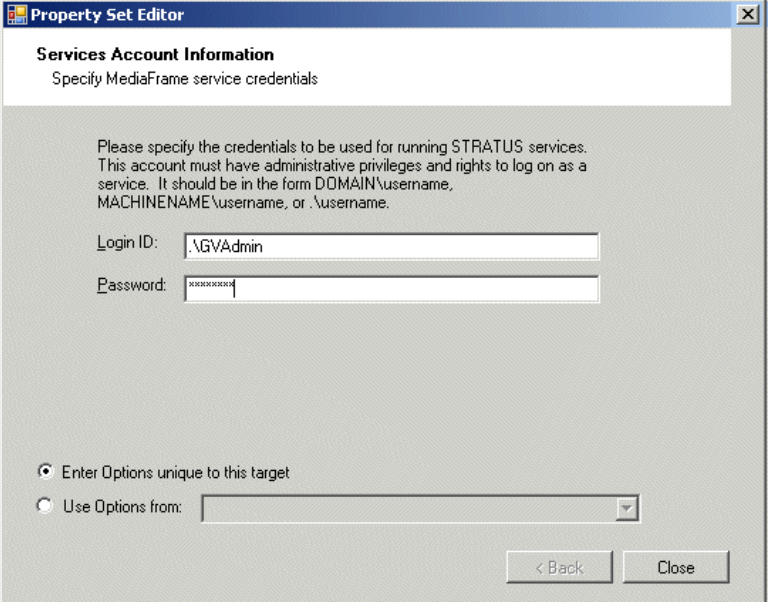
[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.

2. In the Tasks list view, view tasks and determine if you must set deployment options.
Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.
3. Do one of the following to set deployment options:
 - Double-click the task.
 - Select the task and click the **Options** button.
 A wizard opens.
4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Upgrade software on GV STRATUS devices

- The devices that you are upgrading must be in a deployment group.
- For the software you are upgrading, a newer version of that managed software package must be added to the deployment group.
- A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.

If you are upgrading multiple software components for which there is a required sequence, you must check and uncheck tasks and run multiple deployment sessions to control the sequence. For some software components, SiteConfig aids you by enforcing dependencies. For each individual software component, SiteConfig enforces an uninstall of the current version of software before installing the upgrade version. SiteConfig provides uninstall deployment tasks and install deployment tasks to indicate the taskflow. SiteConfig can do the uninstall/install in a single deployment session.

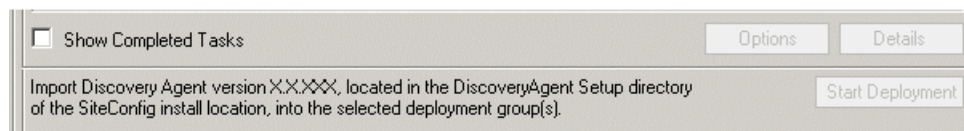
1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.

The corresponding software deployment tasks are displayed in the Tasks list view.

2. For the software you are deploying, do the following:
 - a) Select the **Deploy** check box in the row for the uninstall task.
 - b) Select the **Deploy** check box in the row for the install task.

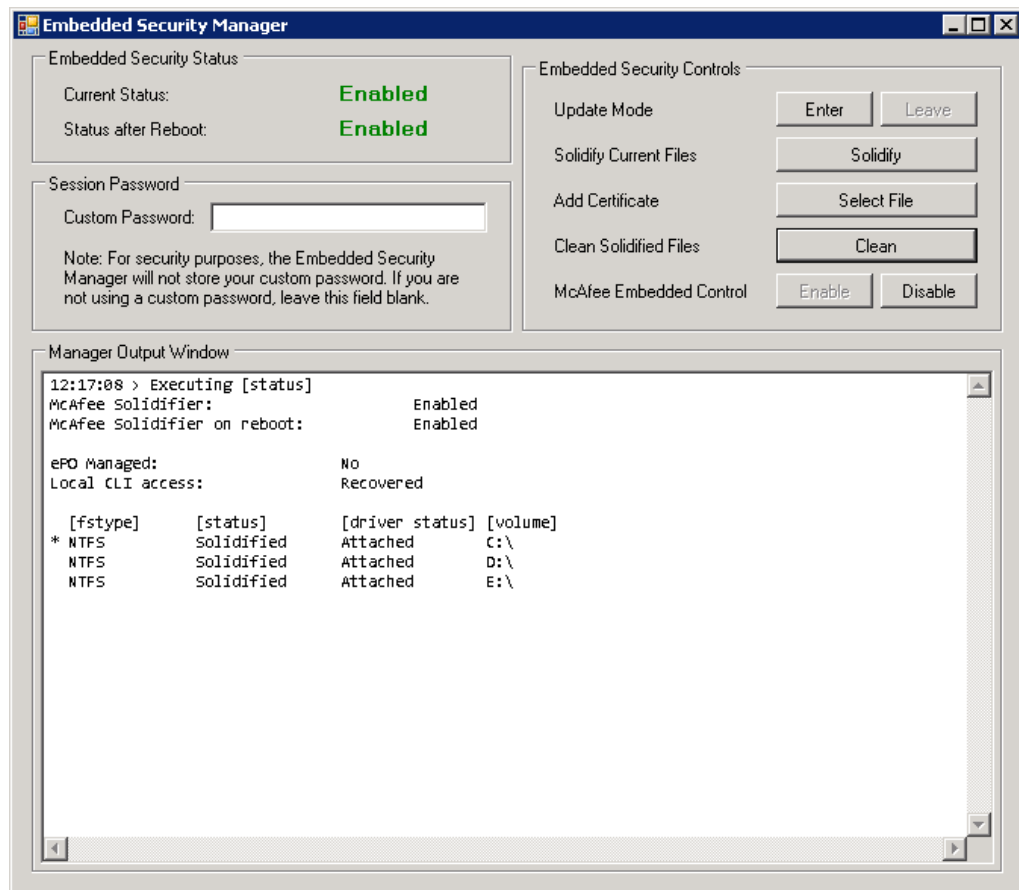
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

3. Check the area next to the Start Deployment button for a message.



If a message instructs you to upgrade the Discovery Agent, on the control point PC go to the directory to which SiteConfig is installed, find the *DiscoveryAgent_x.x.x.x.cab* file, add it to the deployment group, and deploy the Discovery Agent software as well.

- From the Windows desktop, click **Start | All Programs | Grass Valley | Embedded Security Manager**.
Embedded Security Manager opens.



If Current Status is **Enabled**, click **Enter** in the Embedded Security Controls section to put it in Update mode.

- Locate the following file:

C:\Program Files (x86)\Grass Valley\STRATUS Databases\UpgradeDatabase.exe

This file is copied to the GV STRATUS server along with the software upgrade.

- Double-click *UpgradeDatabase.exe* to upgrade the database.
- After the upgrade is completed, click **Leave** in the Embedded Security Manager to change back the status to Enabled mode.
- Reboot the GV STRATUS Core server.

A "The database upgrade completed successfully" message displays.

Next, set the SQL server memory limit.

Disabling the Auto Close feature in Ingest Database

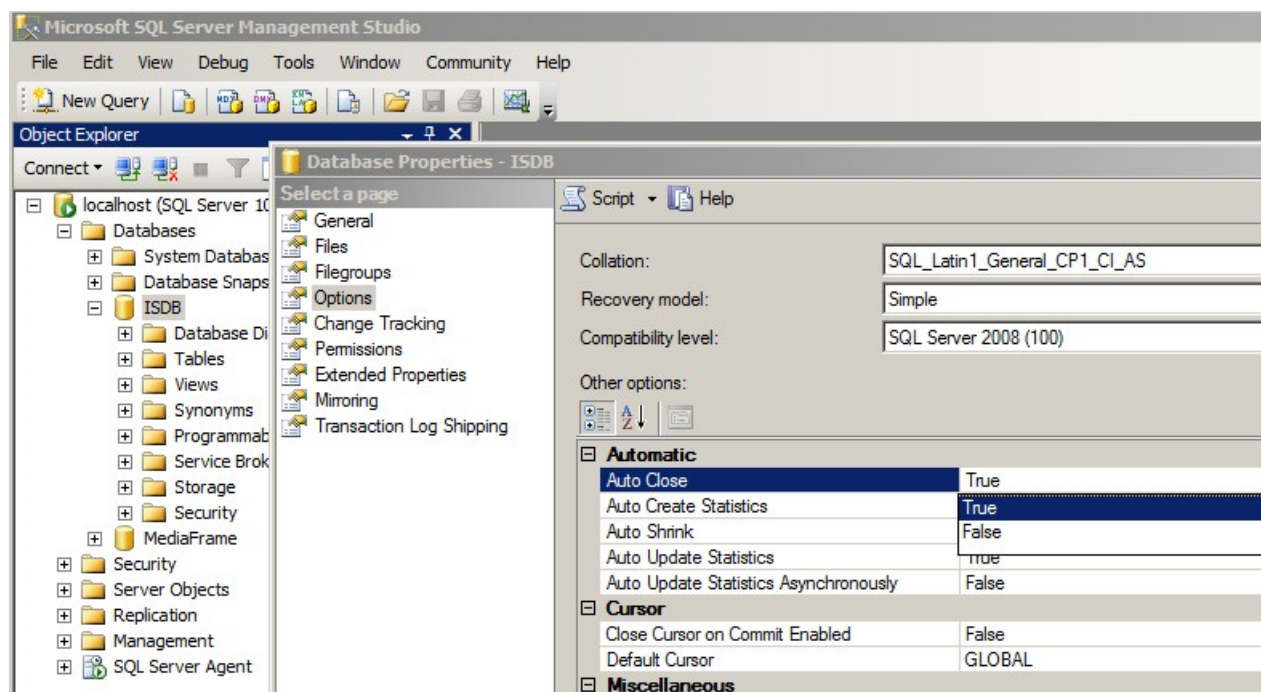
This is only required for an upgrade of the Ingest database.

It is not required on a newly installed Ingest database since it will be set automatically during installation.

The Auto Close feature must be disabled to prevent the Ingest database from going offline automatically.

1. Open and log in to Microsoft SQL Server Management Studio.
2. Go to **Databases** and select **ISDB**.
3. Right-click on **ISDB** and select **Properties**.

The **Database Properties - ISDB** window opens.



4. Select the **Options** page.
5. In the **Automatic** section, select **Auto Close** and set the value to **False**.
6. Click **OK**.

The Auto Close feature for Ingest Database is disabled.

Setting the SQL server memory limit

The SQL server depends on memory to cache information from databases on disk for fast access. If more data exists on disk than can be held in memory, the SQL server performance will degrade.

To avoid low memory issues on the GV STRATUS Core server, the memory that should be assigned to SQL server depends on the memory size of the physical device.

Grass Valley recommends the setting of SQL server memory limit according to the table below:

Physical Memory	SQL server memory limit	Approximate number of assets supported
12 GB	5120 MB	200,000 – 350,000

Physical Memory	SQL server memory limit	Approximate number of assets supported
16 GB	8192 MB	320,000 – 560,000
32 GB	18,432 MB	720,000 – 1,260,000
48 GB	32,768 MB	1,280,000 – 2,240,000
64 GB	47,104 MB	1,900,000 – 3,360,000

Set the SQL server memory limit as follows:

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.

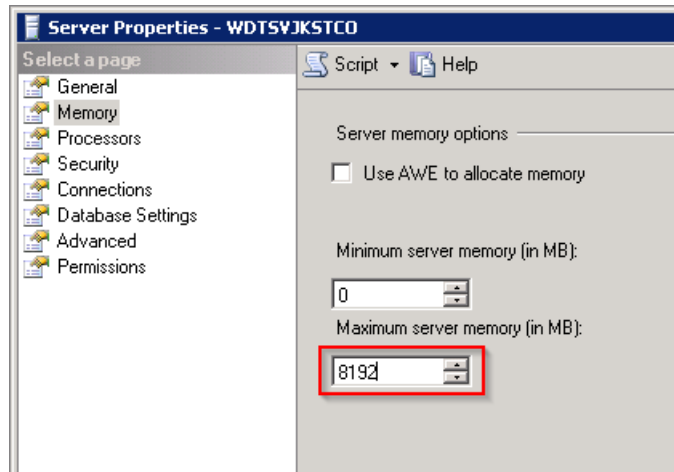
Microsoft SQL Server Management Studio opens.

2. Log on as Administrator.
3. Right-click on the SQL server name and select **Properties** from the context menu.

The **Server Properties** dialog opens.

4. Click **Memory**.

The Memory page opens.



5. In the **Maximum server memory** setting, enter your SQL server memory limit in MB.
6. Click **OK**.

A restart of the server is not necessary, but recommended.

Next, disable the Auto Close feature for Ingest Database.

SabreTooth license process

GV STRATUS licenses are installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.

2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.
4. Repeat steps as appropriate to install licenses on other devices.

Prepare for configuration

Do the following to verify systems and tools are ready for configuration:

- In the GV STRATUS Control Panel, do one or both of the following:
 - If your system has a K2 SAN, click **Core | K2 Storage | K2 SAN Storage** and verify that the information for the K2 SAN is the same information that is in K2Config. If the information is the same, it means that the Control Panel application is correctly reading the information from the K2Config application.
 - If your system has a standalone K2 Summit system, click **Core | K2 Storage | K2 Standalone Storage** and verify that the information for the K2 Summit system is the same information that is in SiteConfig. If the information is the same, it means that the Control Panel application is correctly reading the information from the SiteConfig application.
- From each machine in the GV STRATUS system, verify that you can ping all the devices that the GV STRATUS server needs to communicate with over the control network.
- For the machines that need to communicate with a Proxy server, verify you can log in to that Proxy server using the credentials that the system will be using.

Begin by configuring STRATUS Core Services settings.

Related Topics

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

Configure Proxy Config settings

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

NOTE: *A GV STRATUS system must have only one proxy location and server, so these settings apply to all K2 Summit systems, both standalone and SAN.*

NOTE: *On an operational system, consult with Grass Valley Support before attempting to change Location of Proxy Assets, CIFS Server, or HTTP Server settings. Changing these settings requires a purge of the GV STRATUS database and a new K2 storage file system, which results in a loss of high-resolution and low-resolution media. Grass Valley Support can provide methods to avoid this loss of media.*

To locate these settings, click **Core | Proxy Config**

1. In the Control Panel application, open Proxy Config settings.

The screenshot shows the 'Proxy Settings' window with four tabs: 'Proxy Settings' (selected), 'Proxy Access', 'Test Connections', and 'Proxy Quality'. The 'Proxy Settings' tab contains three sections: 'Proxy Server Settings' with dropdowns for 'Location of Proxy Assets:', 'CIFS Server:', and 'HTTP Server:' (all set to 'KULAS-PROXY-1'); 'K2 Summit Settings' with a checked checkbox 'Enable Proxy Creation'; and 'Proxy Encoder Settings' with a checked checkbox 'Enable Proxy Encoders'. At the bottom are 'Save' and 'Cancel' buttons.

NOTE: GV STRATUS versions lower than 3.0 had only one Proxy Server setting. With version 3.0 and higher, the CIFS Server and HTTP Server settings must be configured to replace the Proxy Server setting.

2. If your GV STRATUS system stores its proxy on a GV STRATUS Express server, configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.

3. If your GV STRATUS system stores its proxy on an online or production K2 SAN (A1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.

4. If your GV STRATUS system stores its proxy on a dedicated Proxy Storage system (B1, C1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.

5. On the **Test Connections** tab, click **Test Connections**.

The GV STRATUS system populates a list of K2 Storage devices. Verify that this list is correct.

6. Select **Enable Proxy Creation**.

This allows K2 Summit systems to create proxy assets when high resolution assets are recorded.

7. Select **Enable Proxy Encoders**.

This allows the system to create proxy assets for any high resolution assets that do not currently have a corresponding low-resolution proxy asset. This setting applies to proxy created by Render Engine servers. If your system instead has Proxy Encoder servers, which are no longer supported, the setting then applies to proxy created by your Proxy Encoder servers.

8. Click **Save**.

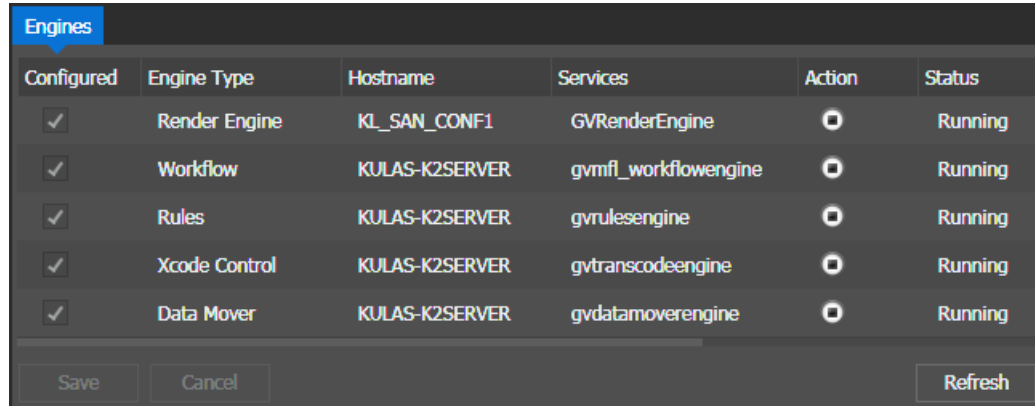
9. If you changed Location of Proxy Assets, CIFS Server, or HTTP Server settings, under supervision of Grass Valley Support, you must purge the GV STRATUS database and make a new K2 storage file system.

If you are configuring K2 Summit MDI settings, you can make those settings first before doing this step. This step provides the required restart after configuring K2 Summit MDI settings.

Verify GV STRATUS Engines are running

After upgrading software, make sure the GV STRATUS Engine services are running. This is especially important if you added a SiteConfig role that installs a type of Engine software or otherwise made a change that could affect Engine software as part of the upgrade.

1. In GV STRATUS Control Panel, click **Core | Engines**.
Engine settings open.



Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmfl_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gvrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gvtranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gvdatamoverengine		Running

Save Cancel Refresh

2. Make sure that in the **Configured** column the Engine is selected.
3. Make sure that in the **Action** column the **Stop** icon is displayed.
This indicates the Engine service is playing.
4. Make sure that the **Status** column reports **Running**.
5. Verify that GV STRATUS servers with role of Render Engine are listed, and that those servers are set to Engine Type **Render Engine**.
6. In the **Configured** column, select each server with role of Render Engine, with Engine Type **Render Engine**.
You must save settings at initial install/config and any time a GV STRATUS server with an Engine Type role is added, removed, or modified in SiteConfig.
7. Click **Save**.
Settings are saved to the selected GV STRATUS servers.

Set GV STRATUS client PC to high-resolution

Only systems with GV STRATUS client PCs that use a high-resolution media workflow require this process. Configure the PC in GV STRATUS Control Panel.

A GV STRATUS client PC that uses a high-resolution media workflow rather than proxy media workflow must have access to the high-resolution media. The following are examples of this high-resolution access:

- High-resolution client PC on K2 media (iSCSI) network — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via the media network to support the workflow. Two connections are required: one to the control network and one to the media network. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.
- Client PC with CIFS mount access to K2 storage — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via a CIFS mount, typically to the v: drive, to support the workflow. Two connections are required: one to the control network and one to the Grass Valley storage. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.

Use these steps to set the PC to high-resolution.

1. In GV STRATUS Control Panel, click **Core | Proxy Config | Proxy Access | Add**.
The Add Host Proxy Access dialog box opens.
2. For Hostname, select the name of the GV STRATUS client PC that you are setting to high-resolution.
3. For Access, select **Hi-Res**.
4. Click **OK** to save settings and close.

Upgrade GV STRATUS Rundown and VTR Ingest systems

- K2 systems must be upgraded to the compatible version of K2 system software.
- GV STRATUS systems must be upgraded to the compatible versions of software.
- Grass Valley Prerequisite Files must be installed on the control point PC.

Upgrade your GV STRATUS Rundown and GV STRATUS VTR Ingest systems to the compatible versions of software. Refer to related topics in GV STRATUS Rundown and GV STRATUS VTR Ingest upgrade procedures.

Related Topics

[Upgrading GV STRATUS Rundown systems](#) on page 127

[Installing and Upgrading GV STRATUS VTR Ingest](#) on page 136

Make recovery images of servers

After you have upgraded software as instructed in these procedures and verified that your system is working properly, you should always make a recovery image of each of your upgraded computers. Use a sequence of tasks similar to those you followed for upgrading software so that as you take systems offline you manage redundancy, servers, and clients, as appropriate for your system.

Refer to the Grass Valley product's *Service Manual* for recovery image procedures.

Upgrading from version 4.5 to version 5.0

Follow the topics in the section sequentially to perform the upgrade.

Summary of upgrade from version 4.5 to version 5.0

Several upgrade tasks are new or require special consideration with the upgrade from version 4.5 to version 5.0. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - SiteConfig: Before upgrading GV STRATUS, upgrade your SiteConfig application and Discovery agent to the latest version. For more info, refer to [Grass Valley products compatible with GV STRATUS](#) on page 46.
 - GV STRATUS Database, GV Log Viewer, and GV Log Manager: These new SiteConfig roles must be assigned before upgrading the GV STRATUS system. For more details, refer to [Add software roles for upgrade to version 5.0](#) on page 69.
 - .NET upgrade: All GV STRATUS servers, K2 Summit systems, and all client PCs hosting a GV STRATUS application and/or an EDIUS application must upgrade to .NET 4.6.1, if that version of .NET is not already installed. For more details, refer to [Upgrade .NET](#) on page 86.
 - Microsoft Visual C++ Redistributable for VS 2015 install: All GV STRATUS servers, K2 Summit systems, and all Windows 64-bit and 32-bit OS client PCs hosting GV STRATUS and EDIUS applications must install Microsoft Visual C++ Redistributable for VS 2015 Update 2. For more details, refer to [Upgrade Microsoft Visual C++ Redistributable for VS 2015](#) on page 86.
 - Bin Creation Rights, Change Thumbnail Rights, Copy Metadata, and Export Rights: After the upgrade, existing users and groups do not have these new roles assigned, so you must assign the roles if appropriate. If you create new users and groups, some roles are assigned by default, so you must remove those roles if appropriate. For more details, refer to [GV STRATUS roles matrix](#) on page 158.
 - Field Permissions for custom metadata: After the upgrade, existing users and groups do not have these new permissions assigned, so you must assign the permissions if appropriate. If you create new users and groups, some permissions are assigned by default, so you must remove those permissions if appropriate. For more details, refer to [Permissions settings](#) on page 271.
 - Custom Metadata fields for markers and keywords: After the upgrade, existing users and groups do not have these new fields assigned, so a user with the Media Manager role must assign the fields if appropriate. For more details, refer to **Entity Type** in [Custom Metadata settings](#) on page 267.
 - Access Permissions for markers and segments: After the upgrade, existing users and groups do not have these new permissions assigned, so a user with the Security Manager role must assign the permissions if appropriate. If you create new users and groups, some permissions are assigned by default, so you must remove those permissions if appropriate. For more details, refer to [Setting security in Inspector](#) on page 406.
 - Common RESTful Archive: After the upgrade, you can add the Common RESTful Archive server to your GV STRATUS system. You can configure up to 2 Common RESTful Archive MDIs in the GV STRATUS Control Panel. For more details, refer to [Common RESTful Archive MDI settings](#) on page 265.
 - Internal system account: If the internal system account for your GV STRATUS system is on a fully qualified domain or is not the default GVAdmin account, configure settings at GV STRATUS Control Panel **Core | STRATUS Core Services | Primary Site** as appropriate for your system.

- Systems with Windows 2008 servers:
 - Requires removal of specific Windows updates before the upgrade. For more details, refer to [Uninstall Windows updates on Windows 2008 servers](#) on page 65.
 - Requires the TCP/IP protocol to be enabled. For more details, refer to [Enable TCP/IP protocol on Windows 2008 servers](#) on page 66.
- Systems with EDIUS and GV Render Engine server:
 - Requires the installation of Windows High Priority updates. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.
- Systems with Workflow server:
 - Requires the export of existing rules before GV STRATUS upgrade due to relocation of Rules and Workflow databases to the Core Server. For more details, refer to [Export rules for Workflow Server](#) on page 66.
- Systems with K2 Central Shared Storage:
 - Before upgrading the K2 Central system, the previously installed software must be uninstalled manually. For more details, refer to [Upgrade K2/Summit/SAN systems that are accessed by the GV STRATUS system](#) on page 91.
 - Any K2 config files must be deleted, and services restarted on the GV STRATUS core server, if originally K2 Central devices had been manually added to these files before configuring K2 Central systems in the GV STRATUS Control Panel.
 - Requires the configuration of K2 Summit MDI for the K2 Central system. For more details, refer to [GV STRATUS Control Panel configuration for K2 Central](#) on page 750.
- Systems with Grass Valley SMB Storage:
 - Requires the configuration of K2 Summit MDI for the Grass Valley SMB Storage. For more details, refer to [GV STRATUS Control Panel configuration for SMB storage](#) on page 743.

Make recovery images of servers


Do not do this task if:

- You previously made a recovery image at the current software version for each computer you are upgrading.

Do this task if:

- You do not have a recovery image at the current software version for one or more of the computers you are upgrading.

The recommended procedure is to make a recovery image immediately after a software upgrade. If you neglected to do this when you last upgraded software you should make the recovery image now, before upgrading to the new version.

 **CAUTION:** *If you upgrade and then decide you do not want to stay with this version of software, you must use the recovery disk image process to downgrade to your previous version.*

Upgrade .NET

Do not do this task if:

- The computer has .NET 4.6.1 installed

Do this task if:

- The computer does not have .NET 4.6.1 installed

This task applies to the following:

- K2 Summit/Solo systems
- All types/roles of K2 Media Servers
- All types/roles of GV STRATUS servers.
- Client PCs hosting one or more of the following:
 - GV STRATUS
 - GV STRATUS Control Panel
 - EDIUS XS

1. On the computer, check Windows Control Panel **Programs and Features** for currently installed .NET version(s), then proceed as follows:
 - If .NET 4.6.1 is installed, skip this task.
 - If .NET 4.6.1 is not installed, continue with this procedure.
2. Procure the .NET 4.6.1 installation file from the [Microsoft software download page](#) or the [GV STRATUS software download page](#).
3. Run the installation file and install .NET as directed by the installation wizard.

Upgrade Microsoft Visual C++ Redistributable for VS 2015

This task applies to the following:

- K2 Summit/Solo systems
- All types/roles of K2 Media Servers
- All types/roles of GV STRATUS servers.

- Client PCs hosting one or more of the following:
 - GV STRATUS
 - GV STRATUS Control Panel
 - EDIUS XS
- 1. From the Windows Start menu navigate to **Control Panel | Programs and Features** and check for the following:
 - Microsoft Visual C++ Redistributable for VS 2015**
 - If Microsoft Visual C++ Redistributable for VS 2015 is already installed, do not do the remainder of this task.
 - If Microsoft Visual C++ Redistributable for VS 2015 is not installed, continue with this procedure.
- 2. Procure the **Microsoft Visual C++ Redistributable for VS 2015 Update 2** installation file from the [GV STRATUS software download page](#).
- 3. Select the installation file(s) as follows:
 - For servers and Windows 64-bit OS client PCs, select the following:
 - vc_redist.x64.exe
 - vc_redist.x86.exe
 - For Windows 32-bit OS client PCs, select the following:
 - vc_redist.x86.exe
- 4. Run the installation file and install as directed by the installation wizard.

Install Important Windows updates (recommended)

Grass Valley recommends the installation of all Microsoft Windows Important updates on all GV STRATUS client and server devices, except as specifically instructed otherwise by Grass Valley.

If a computer does not have the Grass Valley Embedded Security solution one-time initial deployment process applied, do not install any Windows updates. Apply the one-time process before installing Windows updates.

⚠ CAUTION: *Only “Important Updates” should be installed. Do not install other Windows or driver updates unless specifically directed by product documentation or by Grass Valley Support.*

Related Topics

[Deploy Embedded Security solution - One-time process](#)

Uninstall Windows updates on Windows 2008 servers

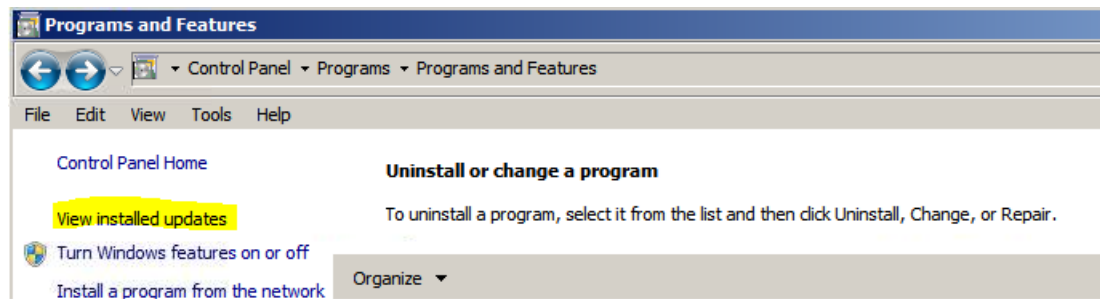
You must uninstall these Microsoft Windows updates if you are upgrading your Dell R610 servers.

1. On Windows 2008 servers, check Windows **Control Panel | Programs and Features** for the following:

- **KB3045685**
- **KB3060716**
- **KB3071756**
- **KB3088195**
- **KB3097877**

If these Windows updates are installed, continue with this procedure. If not installed, skip this task.

2. Select those Windows updates, and remove them via Windows **Control Panel | Programs and Features**.



3. Run the following commands under **Start | Run**:

- `C:\Windows\SysWow64\avsm.exe -z features disable sau`
- `C:\Windows\SysWow64\avsm.exe -z features disable mp`

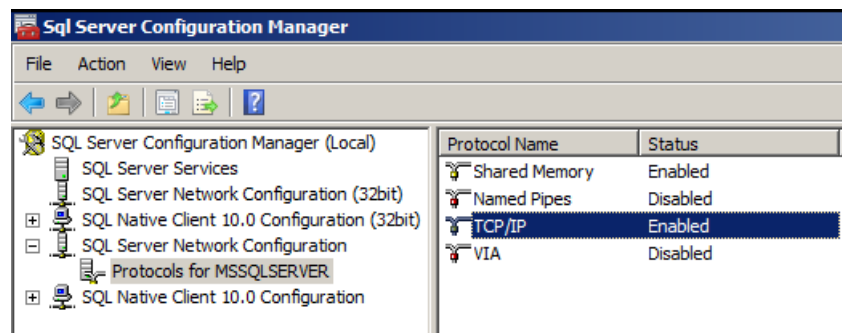
4. Restart your servers.

Enable TCP/IP protocol on Windows 2008 servers

You must enable the TCP/IP protocol if you are using Windows 2008 servers in your operation.

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2 | Configuration Tools | Sql Server Configuration Manager**.

The Sql Server Configuration Manager opens.



2. Go to **SQL Server Network Configuration | Protocols for MSSQLSERVER**.
3. Right-click on **TCP/IP** from the list of protocols, and select **Enable**.
The protocol status displays as **Enabled**.
4. Close the Sql Server Configuration Manager and restart your servers.

Export rules for Workflow Server

If you have Rules and Workflow Engines located on a separate Workflow Server, both databases will be relocated to the Core Server machine after the GV STRATUS upgrade.

You must export rules to an XML file to avoid recreation of rules from scratch. After the GV STRATUS system upgrade, you can restore those rules via the GV STRATUS Control Panel.

1. In the GV STRATUS Control Panel application, go to **General | Rules | Rules Monitor**.

The Rules Monitor tab displays.

Workflow Engine

Rules Engine

Xcode Control Engine

DataMover Engine

Rules Monitor

Rule Editor

Name	Description	Status	Scope	Destination	Failed
Export - DMP	DMP		SummitMDI:V:/default	ftp://10.251.53.115/	218
Export - Carbon Cod...			SummitMDI:V:/default	ftp://10.251.53.115/	23
Import - Audio	From NETIA		\\10.251.52.248\outg...	SummitMDI:V:/From...	22
Import - Vantage		Enabled	\\10.251.53.115\ftproot	SummitMDI:V:/FromF...	12
Import2	various transcode for...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	1
Import4	Multiple rule condition...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
Import6	Overwrite		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
LK Import		Enabled	\\10.251.53.115\FTPT...	SummitMDI:V:/0_Imp...	0
Rule2	Rule trigger every me...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	29
Rule4	Dir changed, metadat...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	1
Rule5	Different transcoder d...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	12
Rule3	Apply rule on complet...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	11
Rule1	Rule1 - for automatio...	Enabled	SummitMDI:V:/Dyno...	\\10.251.53.115\FTPT...	155

Add

Modify

Properties

Remove

Enable

Simulate

Refresh

2. Select a rule or multiple rules that you want to export in the Rules Monitor.
3. Right-click on that rule(s) and select **Export to XML | Save selected Rule**.

You can also select **Save all Rules** if you want to export all your configured rules.

4. Browse to select the export location and click **Save**.

The rule is exported as an XML file to the selected location.

To restore those rules after the upgrade, you can go to Rules Monitor tab of the GV STRATUS Control Panel and select **Import from XML** from the context menu.

Prepare for upgrade

Before upgrading, do the following:

- Procure the software installation files for this release via the appropriate distribution method, such as download, network drive, or external drive.
- Stop all media access on the devices you are upgrading.
- Shut down all applications on the devices you are upgrading.
- Restart all the devices you are upgrading.

- Terminate all users' sessions using the GV STRATUS Control Panel.

Prepare SiteConfig for software deployment

Do the following to prepare SiteConfig for the software upgrade.

1. If a newer version of SiteConfig is available for upgrade and you have not yet upgraded SiteConfig, do the following:
 - a) From Windows **Programs and Features**, uninstall the current version of SiteConfig from the control point PC.
 - b) Install the new version of SiteConfig on the control point PC.
2. If a newer version of Discovery Agent is available, you must upgrade to the latest version. For more info, refer to [Grass Valley products compatible with GV STRATUS](#) on page 46.
3. Set Restart to Complete when the **Restart required** option displays on SiteConfig.



4. Install the new version of Discovery Agent on the control point PC.

Upgrade K2/Summit/SAN systems that are accessed by the GV STRATUS system

- All K2 Summit systems must upgrade to .NET 4.6.1, if that version of .NET is not already installed.
- You have procured the necessary software and documentation for the upgrade. Go to http://www.grassvalley.com/dl/k2_summit and refer to the "Release Notes" section of the K2 Topic Library to determine the compatible software versions and documentation required.
- All standalone K2 Summit systems must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again.
- If upgrading a K2 SAN, all SAN clients must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again. Depending on your system design, this could include devices such as SAN-attached K2 Summit systems, GV STRATUS servers, and GV STRATUS Client PCs.
- If upgrading the K2 Central system, the previously installed software must be uninstalled manually.

NOTE: When upgrading from a K2 software version lower than 9.x to a K2 software version at 9.x or higher, you must reimaging each K2 Summit system. Hardware upgrades might also be required on a K2 Summit system.

1. Upgrade your K2 systems to the compatible version of K2 system software. This includes K2 SAN systems and stand-alone K2 Summit systems.

When upgrading for compatibility with GV STRATUS, use *GrassValley_K2system_x.x.x.cab* file, which contains the required *GrassValley_STRATUS_SummitServices_x.x.x.cab* file.

2. For K2 Central systems, do the following:
 - Manually uninstall the **StorNext File System** and **K2 Central** software from the K2 Central server, via Windows **Programs and Features**.
 - On the Core Server, delete the manually created XML files associated with any K2 Central system, located at: `C:\ProgramData\Grass Valley\ConfigurationDataFiles\K2Config`
 - Remove all K2 Central devices configured in K2Config, if any.
 - Sync K2Config to the GV STRATUS Core Server.
3. On systems running Embedded Security, do the one-time initial deployment process for the Embedded Security solution, if you have not already done so.

About deploying software for the K2 SAN

You must control the sequence of software deployment tasks and device restarts as you upgrade software across the K2 SAN. The general sequence is to upgrade K2 Media Servers first then the SAN-attached K2 systems. The exact steps can vary from software version to version. Make sure you follow the task flow in the *K2 Release Notes* for the version of software to which you are upgrading.

Related Topics

[Installing GV STRATUS application with SiteConfig](#) on page 230

Uninstall software packages

- The devices that you are upgrading must be in a deployment group.
- A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.

If you have one or more K2 Central systems, do the following:

- Remove these via the SiteConfig Devices node:
 - `GrassValleyK2SummitSANClient_x.x.x.cab` from K2 Central Summit clients.
 - **K2 Server 10G iSCSI** device(s) associated with any K2 Central servers.
 - **K2 Summit Client (Non-Redundant iSCSI)** devices associated with any K2 Central Summit clients.

Apply these steps to uninstall software packages as follows:

1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.
The corresponding software deployment tasks are displayed in the Tasks list view.
2. For the software you are deploying, select the **Deploy** check box in the row for the uninstall task.
3. Unselect the **Deploy** check box for all other deployment tasks for all other software.
4. Click the **Start Deployment** button.
Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns.
5. Perform manual steps if indicated, such as dismissing a dialog box on the device and/or restarting the device.

6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

If you have one or more K2 Central systems, do the following:

- Add these via SiteConfig Devices node:
 - Add back the K2 Central server(s) as **K2 Central TX Server** devices.
 - Add back the K2 Central Summit clients as **K2 Central Client** devices.
 - Add back the K2 Central server(s) and clients to the desired Deployment group(s).

Add software roles for upgrade to version 5.0

Before doing this task, make sure devices are added to the SiteConfig system description with the correct family and device type. Refer to [Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148.

SiteConfig roles are new or require special consideration with this software upgrade. Verify and add roles if necessary.

1. As appropriate for your system design and licensing, in your SiteConfig system description, configure roles as follows:
 - For your GV STRATUS Express Server or Core Server, add the new role as follows:
 - GV STRATUS Database
 - For all GV STRATUS Express Server or Core Server, Proxy, Render Engine, and Workflow servers, add the new role as follows:
 - GV Log Manager
 - For the GV STRATUS Control Point PC, add the new role as follows:
 - GV Log Viewer
2. Save SiteConfig and verify in `C:\ProgramData\Grass Valley\ConfigurationDataFiles\SiteConfig` that .scsd and .config files are saved to the Core server.

If you want to verify all your currently configured SiteConfig roles, refer to the complete list of roles and software packages.

Add software package to deployment group for GV STRATUS devices

- The GV STRATUS devices to which you are deploying software must have their SiteConfig roles correctly configured.
- The GV STRATUS devices to which you are deploying software must be in a deployment group.

The following software upgrade system cab files apply to GV STRATUS devices.

- `GrassValley_STRATUSClient_X.X.XX.XXXX.cab`
- `GrassValley_CoreServer_X.X.XX.XXXX.cab`
- `GrassValley_K2system_X.X.XX.XXXX.cab`

The recommended best practice is to add all system cab files to all deployment groups and allow SiteConfig to direct software to devices according to configured roles.

Refer to release notes for version information.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. Click the **Add** button.
The Add Package(s) dialog box opens.
3. Do one of the following to select the software package:
 - Select from the list of packages then click **OK**.
 - Click **Browse**, browse to and select the package, then click **Open**.
4. If one or more EULAs are displayed, accept them to proceed. If you do not accept a EULA, the associated software is not assigned to the deployment group.
SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

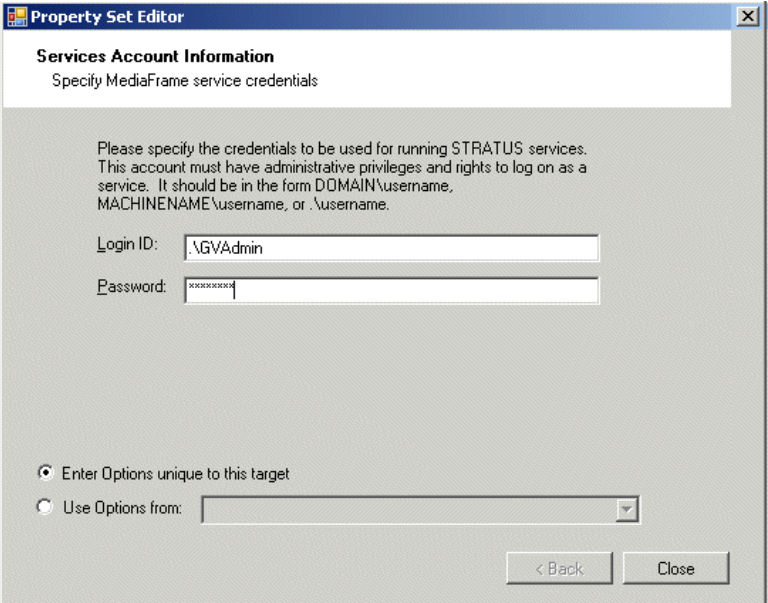
[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
 2. In the Tasks list view, view tasks and determine if you must set deployment options.
Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.
 3. Do one of the following to set deployment options:
 - Double-click the task.
 - Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Upgrade software on GV STRATUS devices

- The devices that you are upgrading must be in a deployment group.
- For the software you are upgrading, a newer version of that managed software package must be added to the deployment group.

- A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.

If you are upgrading multiple software components for which there is a required sequence, you must check and uncheck tasks and run multiple deployment sessions to control the sequence. For some software components, SiteConfig aids you by enforcing dependencies. For each individual software component, SiteConfig enforces an uninstall of the current version of software before installing the upgrade version. SiteConfig provides uninstall deployment tasks and install deployment tasks to indicate the taskflow. SiteConfig can do the uninstall/install in a single deployment session.

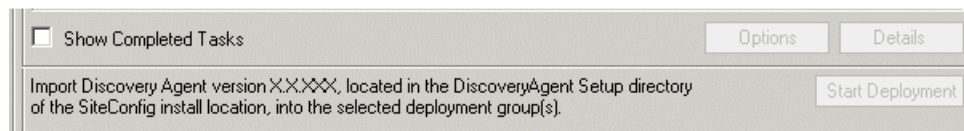
1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.

The corresponding software deployment tasks are displayed in the Tasks list view.

2. For the software you are deploying, do the following:
 - a) Select the **Deploy** check box in the row for the uninstall task.
 - b) Select the **Deploy** check box in the row for the install task.

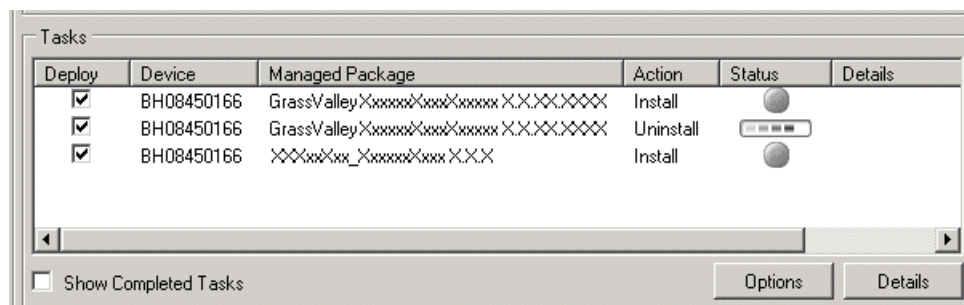
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

3. Check the area next to the Start Deployment button for a message.



If a message instructs you to upgrade the Discovery Agent, on the control point PC go to the directory to which SiteConfig is installed, find the *DiscoveryAgent_x.x.x.x.cab* file, add it to the deployment group, and deploy the Discovery Agent software as well.

4. Click the **Start Deployment** button.



Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns. If an error appears regarding prerequisite software, install the Grass Valley Prerequisite Files on the control point PC and then repeat this step.

SiteConfig uninstalls/install software in the proper sequence.

5. When the Status or Details columns indicate next steps, identify the software in the row, then do one of the following:
 - If Details displays a **Restart required** link (but not "Visible dialog pending..."), click the link and when prompted "...are you sure...", click **Yes**.
 - If Details does not display any indication of additional steps required, proceed with the next step in this task.
6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.
7. Shutdown the entire GV STRATUS/K2 Summit system and power up the servers in the correct order, starting the required services as needed.
8. If you deployed the MEWS Service, after deployment is complete, start the MEWS Service.

Related Topics

[Install Render Engine server software and upgrade EDIUS client software](#) on page 107

Upgrade GV STRATUS Database

This task applies to the following:

- The GV STRATUS server with the role of GV STRATUS Database. Typically this is the GV STRATUS Core server

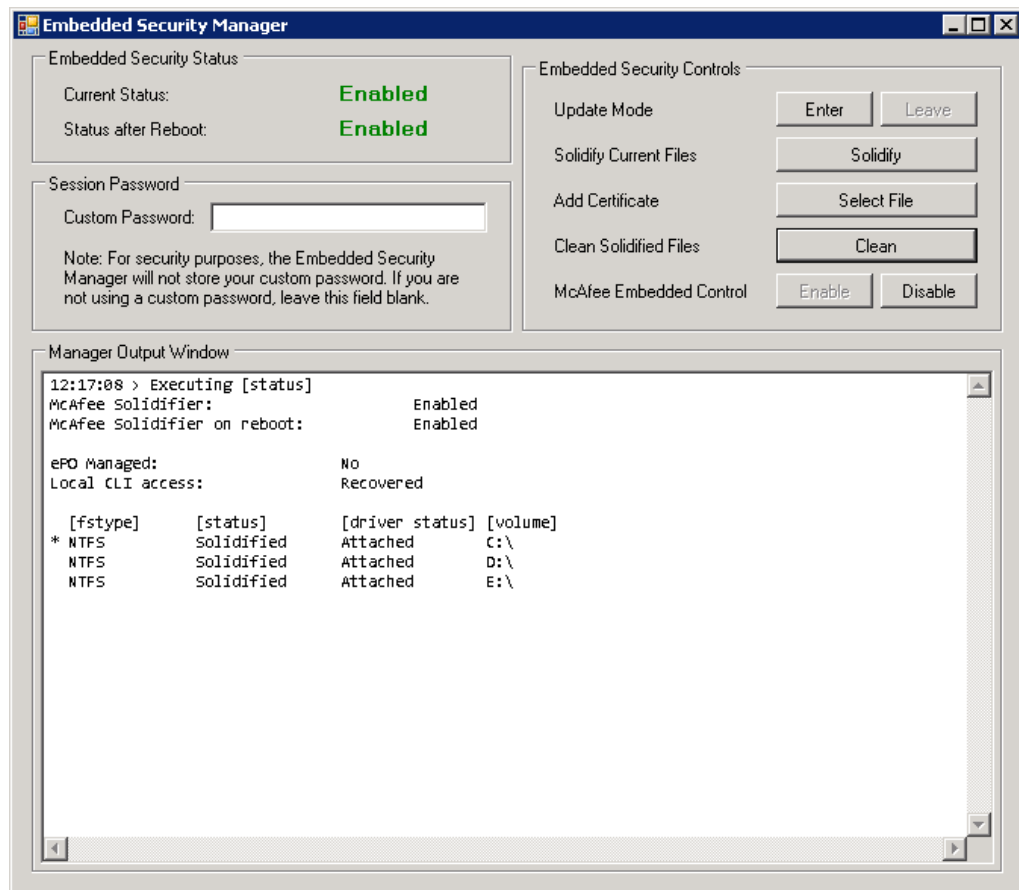
Before doing this task, do the following:

- Upgrade software on the GV STRATUS server.

This task upgrades the GV STRATUS database.

1. Login to the GV STRATUS server as Administrator.

- From the Windows desktop, click **Start | All Programs | Grass Valley | Embedded Security Manager**. Embedded Security Manager opens.



If Current Status is **Enabled**, click **Enter** in the Embedded Security Controls section to put it in Update mode.

- Locate the following file:

`C:\Program Files (x86)\Grass Valley\STRATUS Databases\UpgradeDatabase.exe`

This file is copied to the GV STRATUS server along with the software upgrade.

- Double-click `UpgradeDatabase.exe` to upgrade the database.
- After the upgrade is completed, click **Leave** in the Embedded Security Manager to change back the status to Enabled mode.
- Reboot the GV STRATUS Core server.

A "The database upgrade completed successfully" message displays.

Next, set the SQL server memory limit.

Disabling the Auto Close feature in Ingest Database

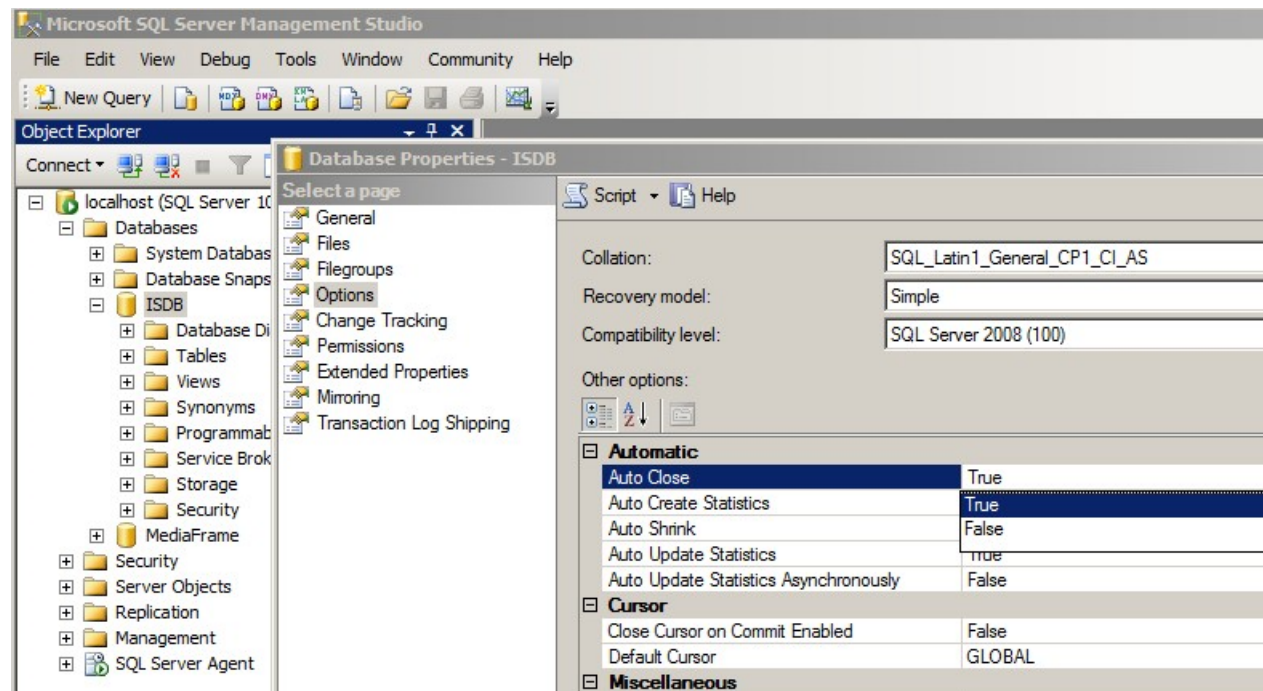
This is only required for an upgrade of the Ingest database.

It is not required on a newly installed Ingest database since it will be set automatically during installation.

The Auto Close feature must be disabled to prevent the Ingest database from going offline automatically.

1. Open and log in to Microsoft SQL Server Management Studio.
2. Go to **Databases** and select **ISDB**.
3. Right-click on **ISDB** and select **Properties**.

The **Database Properties - ISDB** window opens.



4. Select the **Options** page.
5. In the **Automatic** section, select **Auto Close** and set the value to **False**.
6. Click **OK**.

The Auto Close feature for Ingest Database is disabled.

Setting the SQL server memory limit

The SQL server depends on memory to cache information from databases on disk for fast access. If more data exists on disk than can be held in memory, the SQL server performance will degrade.

To avoid low memory issues on the GV STRATUS Core server, the memory that should be assigned to SQL server depends on the memory size of the physical device.

Grass Valley recommends the setting of SQL server memory limit according to the table below:

Physical Memory	SQL server memory limit	Approximate number of assets supported
12 GB	5120 MB	200,000 – 350,000

Physical Memory	SQL server memory limit	Approximate number of assets supported
16 GB	8192 MB	320,000 – 560,000
32 GB	18,432 MB	720,000 – 1,260,000
48 GB	32,768 MB	1,280,000 – 2,240,000
64 GB	47,104 MB	1,900,000 – 3,360,000

Set the SQL server memory limit as follows:

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.

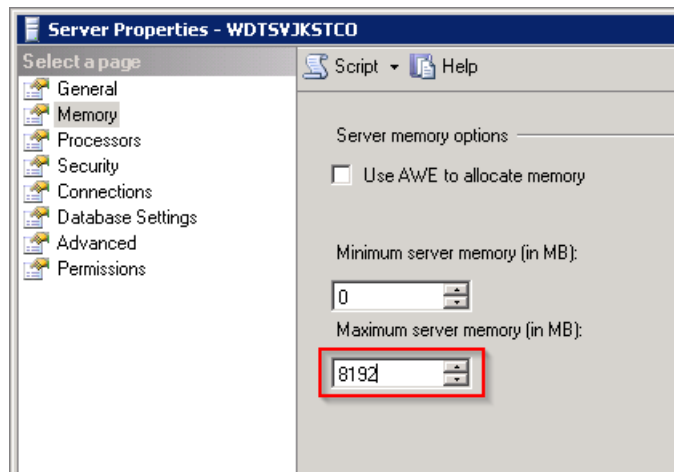
Microsoft SQL Server Management Studio opens.

2. Log on as Administrator.
3. Right-click on the SQL server name and select **Properties** from the context menu.

The **Server Properties** dialog opens.

4. Click **Memory**.

The Memory page opens.



5. In the **Maximum server memory** setting, enter your SQL server memory limit in MB.
6. Click **OK**.

A restart of the server is not necessary, but recommended.

Next, disable the Auto Close feature for Ingest Database.

SabreTooth license process

GV STRATUS licenses are installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.

2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.
4. Repeat steps as appropriate to install licenses on other devices.

Prepare for configuration

Do the following to verify systems and tools are ready for configuration:

- In the GV STRATUS Control Panel, do one or both of the following:
 - If your system has a K2 SAN, click **Core | K2 Storage | K2 SAN Storage** and verify that the information for the K2 SAN is the same information that is in K2Config. If the information is the same, it means that the Control Panel application is correctly reading the information from the K2Config application.
 - If your system has a standalone K2 Summit system, click **Core | K2 Storage | K2 Standalone Storage** and verify that the information for the K2 Summit system is the same information that is in SiteConfig. If the information is the same, it means that the Control Panel application is correctly reading the information from the SiteConfig application.
- From each machine in the GV STRATUS system, verify that you can ping all the devices that the GV STRATUS server needs to communicate with over the control network.
- For the machines that need to communicate with a Proxy server, verify you can log in to that Proxy server using the credentials that the system will be using.
- If you have SMB Storage in your system, click **Core | MDI Configuration | Add | Summit** to add a Summit MDI for the SMB Storage server. Select **Third Party Storage** for the Type of K2 Device option and enter the UNC path for the connection to the SMB Storage.
- If you have K2 Central Storage in your system, do the following in the GV STRATUS Control Panel:
 - a) Select **Core | K2 Storage | K2 Central | Add**. Then enter the name of the K2 Central system, select the K2 Central server and K2 clients for the system, and click **Save**.
 - b) Click **Core | MDI Configuration | Add | Summit** to add a Summit MDI for the K2 Central server. Select **K2 Central** for the Type of K2 Device option and enter user credentials to connect to the K2 Central.

Begin by configuring STRATUS Core Services settings.

Configure Proxy Config settings

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

NOTE: *A GV STRATUS system must have only one proxy location and server, so these settings apply to all K2 Summit systems, both standalone and SAN.*

NOTE: *On an operational system, consult with Grass Valley Support before attempting to change Location of Proxy Assets, CIFS Server, or HTTP Server settings. Changing these settings requires a purge of the GV STRATUS database and a new K2 storage file system, which results in a loss*

of high-resolution and low-resolution media. Grass Valley Support can provide methods to avoid this loss of media.

To locate these settings, click **Core | Proxy Config**

1. In the Control Panel application, open Proxy Config settings.

The screenshot shows the 'Proxy Settings' window with four tabs: 'Proxy Settings' (selected), 'Proxy Access', 'Test Connections', and 'Proxy Quality'. The 'Proxy Settings' tab contains three sections: 'Proxy Server Settings' with dropdowns for 'Location of Proxy Assets:', 'CIFS Server:', and 'HTTP Server:' (all set to 'KULAS-PROXY-1'); 'K2 Summit Settings' with a checked checkbox for 'Enable Proxy Creation'; and 'Proxy Encoder Settings' with a checked checkbox for 'Enable Proxy Encoders'. At the bottom are 'Save' and 'Cancel' buttons.

NOTE: GV STRATUS versions lower than 3.0 had only one Proxy Server setting. With version 3.0 and higher, the CIFS Server and HTTP Server settings must be configured to replace the Proxy Server setting.

2. If your GV STRATUS system stores its proxy on a GV STRATUS Express server, configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.

3. If your GV STRATUS system stores its proxy on an online or production K2 SAN (A1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.

4. If your GV STRATUS system stores its proxy on a dedicated Proxy Storage system (B1, C1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.

5. On the **Test Connections** tab, click **Test Connections**.

The GV STRATUS system populates a list of K2 Storage devices. Verify that this list is correct.

6. Select **Enable Proxy Creation**.

This allows K2 Summit systems to create proxy assets when high resolution assets are recorded.

7. Select **Enable Proxy Encoders**.

This allows the system to create proxy assets for any high resolution assets that do not currently have a corresponding low-resolution proxy asset. This setting applies to proxy created by Render Engine servers. If your system instead has Proxy Encoder servers, which are no longer supported, the setting then applies to proxy created by your Proxy Encoder servers.

8. Click **Save**.

9. If you changed Location of Proxy Assets, CIFS Server, or HTTP Server settings, under supervision of Grass Valley Support, you must purge the GV STRATUS database and make a new K2 storage file system.

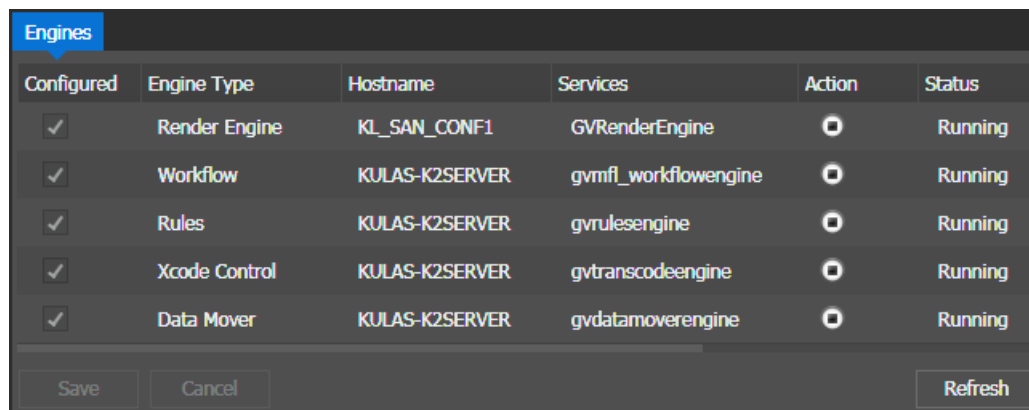
If you are configuring K2 Summit MDI settings, you can make those settings first before doing this step. This step provides the required restart after configuring K2 Summit MDI settings.






Verify GV STRATUS Engines are running

After upgrading software, make sure the GV STRATUS Engine services are running. This is especially important if you added a SiteConfig role that installs a type of Engine software or otherwise made a change that could affect Engine software as part of the upgrade.

1. In GV STRATUS Control Panel, click **Core | Engines**.

Engine settings open.



Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmfl_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gvrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gvtranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gvdatamoverengine		Running

Save Cancel Refresh

2. Make sure that in the **Configured** column the Engine is selected.
3. Make sure that in the **Action** column the **Stop** icon is displayed.
This indicates the Engine service is playing.
4. Make sure that the **Status** column reports **Running**.
5. Verify that GV STRATUS servers with role of Render Engine are listed, and that those servers are set to Engine Type **Render Engine**.
6. In the **Configured** column, select each server with role of Render Engine, with Engine Type **Render Engine**.
You must save settings at initial install/config and any time a GV STRATUS server with an Engine Type role is added, removed, or modified in SiteConfig.
7. Click **Save**.
Settings are saved to the selected GV STRATUS servers.

Set GV STRATUS client PC to high-resolution

Only systems with GV STRATUS client PCs that use a high-resolution media workflow require this process. Configure the PC in GV STRATUS Control Panel.

A GV STRATUS client PC that uses a high-resolution media workflow rather than proxy media workflow must have access to the high-resolution media. The following are examples of this high-resolution access:

- High-resolution client PC on K2 media (iSCSI) network — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via the media network to support the workflow. Two connections are required: one to the control network and one to the media network. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.
- Client PC with CIFS mount access to K2 storage — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via a CIFS mount, typically to the v: drive, to support the workflow. Two connections are required: one to the control network and one to the Grass Valley storage. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.

Use these steps to set the PC to high-resolution.

1. In GV STRATUS Control Panel, click **Core | Proxy Config | Proxy Access | Add**.
The Add Host Proxy Access dialog box opens.
2. For Hostname, select the name of the GV STRATUS client PC that you are setting to high-resolution.
3. For Access, select **Hi-Res**.
4. Click **OK** to save settings and close.

Upgrade GV STRATUS Rundown and VTR Ingest systems

- K2 systems must be upgraded to the compatible version of K2 system software.
- GV STRATUS systems must be upgraded to the compatible versions of software.
- Grass Valley Prerequisite Files must be installed on the control point PC.

Upgrade your GV STRATUS Rundown and GV STRATUS VTR Ingest systems to the compatible versions of software. Refer to related topics in GV STRATUS Rundown and GV STRATUS VTR Ingest upgrade procedures.

Related Topics

[Upgrading GV STRATUS Rundown systems](#) on page 127

[Installing and Upgrading GV STRATUS VTR Ingest](#) on page 136

Make recovery images of servers

After you have upgraded software as instructed in these procedures and verified that your system is working properly, you should always make a recovery image of each of your upgraded computers. Use a sequence of tasks similar to those you followed for upgrading software so that as you take systems offline you manage redundancy, servers, and clients, as appropriate for your system.

Refer to the Grass Valley product's *Service Manual* for recovery image procedures.

Install Render Engine server software and upgrade EDIUS client software

Follow the topics in this section for Render Engine and EDIUS components in your system.

Uninstall EDIUS Workgroup and supporting software

If you have an EDIUS Workgroup client PC on which you have previously installed EDIUS manually (not with SiteConfig), you must do this task before attempting to install software with SiteConfig. Failure to do so results in problems that can require a reimage of the client PC.

Do not attempt to convert an EDIUS Workgroup PC to an EDIUS XS PC. This conversion is not supported.

1. Uninstall the following software from the PC.

NOTE: *You must uninstall manually. Do not attempt to use SiteConfig to uninstall.*

- K2 EDIUS CONNECT
- EDIUS
- GV STRATUS application
- Generic iSCSI
- StorNext File System
- SiteConfig Discovery Agent
- GV LicenseManager

2. Restart the PC.

Upgrade .NET on Render Engine server

Do this task if:

- The Render Engine server does not have .NET 4.6.1 installed.
1. On the Render Engine server, check Windows Control Panel **Programs and Features** for currently installed .NET version(s), then proceed as follows:
 - If .NET 4.6.1 is installed, skip this task.
 - If .NET 4.6.1 is not installed, continue with this procedure.
 2. Procure the .NET 4.6.1 installation file from the [Microsoft software download page](#) or the GV STRATUS software download page.
 3. Run the installation file and install .NET as directed by the installation wizard.

Install Important Windows updates for EDIUS

- For systems running on EDIUS hardware, Important Windows updates may be required. If your EDIUS I/O hardware driver is not working properly, please check whether these security updates have been installed:
 1. [Security Update for Windows \(KB3035131\)](#)
 2. [Security Update for Windows \(KB3033929\)](#)

If you encounter problems to install these security updates, please install the latest Windows roll up package instead.

Verify Render Engine and EDIUS software roles

Before doing this task, make sure devices are added to the SiteConfig system description with the correct family and device type. Refer to [Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148.

NOTE: *GV STRATUS/EDIUS client PC must be in GV STRATUS family, not EDIUS family.*

For upgrading components, verify SiteConfig roles on devices as follows:

- EDIUS XS client, installed on a GV STRATUS client PC
 - GV STRATUS Application
 - EDIUS (Required for EDIUS XS)
- EDIUS Workgroup client, installed on a SAN-attached GV STRATUS client PC
 - GV STRATUS Application
 - StorNext File System Client
 - Generic iSCSI Client (non K2 only)

NOTE: *First install StorNext File System Client, then install Generic iSCSI Client via SiteConfig for the following:*

- *First installation of GV STRATUS application into a system.*
 - *When there is an upgrade of the StorNext File System Client.*
- EDIUS (Required for EDIUS Workgroup)
- Render Engine server
 - GV STRATUS Control Panel
 - GV STRATUS Event Viewer
 - GV Log Manager
 - StorNext File System Client
 - GV Embedded Security Manager
 - GV STRATUS Render Engine

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

Add software package to deployment group for EDIUS clients and Render Engine server

1. Do a SiteConfig **Check Software** operation on all the devices to which you are deploying software.
***NOTE:** If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
2. Refer to release notes to verify software upgrade version information.
3. Add software packages to SiteConfig deployment groups as follows:

The following software upgrade cab files apply to GV STRATUS/EDIUS XS client PCs.

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS XS)

The following software upgrade cab files apply to GV STRATUS/EDIUS Workgroup (iSCSI SAN-attached) client PCs.

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GenericISCSI_x64_x.x.x.cab*
 - *SNFS_nonK2_x64_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS Workgroup).

The following software upgrade cab files apply to Render Engine servers.

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GVEmbeddedSecurityManager_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

Upgrade Render Engine and EDIUS software

- If installing to an EDIUS Workgroup client PC on which you have previously installed EDIUS manually (not with SiteConfig), EDIUS Workgroup and supporting software must first be uninstalled manually, before attempting to install with SiteConfig.
- QuickTime must be installed on the machine to which you are installing the GV STRATUS Render Engine software.
- Windows High Priority updates are required and must be installed. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.

NOTE: *Expect long deployment times when installing Render Engine and EDIUS software. EDIUS software and Render Engine software can take several minutes to install. Allow the installation to complete. Do not attempt to stop the installation.*

This task applies to GV STRATUS/EDIUS client PCs and Render Engine Server. Use SiteConfig for software deployment.

Install software as follows:

- a) In one SiteConfig deployment session, install EDIUS and Render Engine software.
- b) Restart the device to which you installed the software.

Installing EDIUS application software without SiteConfig

- If installing to a PC on which you have previously installed EDIUS Pro (not EDIUS for STRATUS), EDIUS and supporting software must first be uninstalled before attempting to install EDIUS for STRATUS.
- The PC must meet GV STRATUS Client PC system requirements.
- Windows High Priority updates are required and must be installed. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.

The recommended process for software installation and upgrades is to use SiteConfig from a network connected control point PC and remotely deploy software. However, if SiteConfig installation is not possible, you may install manually on the local PC. Use these steps to manually install the EDIUS application.

1. Procure the following:
 - EDIUS STRATUS Standalone Installation Kit (SIK). This is a directory of files and sub-directories containing components to support the installation.
2. Copy the `EDIUS_STRATUS_SIK` directory to any location on the GV STRATUS/EDIUS client PC.

3. Open the *EDIUS_STRATUS_SIK\deliverables\Modules* directory and identify the EDIUS software cab file, if any, that is in the directory, then proceed as follows:
 - If the EDIUS software cab file is the correct version to install, skip ahead to the next step.
 - If the EDIUS software cab file is not the correct version to install, delete the file, then copy the correct cab file to the directory.
4. Open *EDIUS_STRATUS_SIK\deliverables\Setup*.
A **cmd** window opens and an **EDIUS Installer** dialog box opens and reports installation progress.
5. When prompted, restart the GV STRATUS/EDIUS client PC.

Configuring Control Panel settings: Render Engine

Configure these settings in GV STRATUS Control Panel.

To locate these settings, click **Core | Engines**

Depending on the workflow and bandwidth requirements of your system, Grass Valley may provide a system design in which multiple engines of the same type run on one or more servers. Configure engines as specified by your system design.

1. In the Control Panel application, open Engines settings.

Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmfl_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gyrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gytranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gydatamoverengine		Running

Buttons: Save, Cancel, Refresh

Settings are described as follows:

Setting or button	Description
Configured	Selects an Engine for which settings are saved.
Hostname	The name of a GV STRATUS server that hosts the Engine.
Engine Type	The Engine components installed on the GV STRATUS server.
Status	Indicates if the Engine service is running or stopped.
Action	Starts and stops the Engine service.
Save	Saves current settings to selected GV STRATUS servers.
Cancel	Returns settings to their last saved state.
Refresh	Updates the list.

2. Click **Refresh** to make sure the list has the latest information from SiteConfig.
3. Verify that GV STRATUS servers with role of Render Engine are listed, and that those servers are set to Engine Type **Render Engine**.
4. In the **Configured** column, select each server with role of Render Engine, with Engine Type **Render Engine**.

You must save settings at initial install/config and any time a GV STRATUS server with an Engine Type role is added, removed, or modified in SiteConfig.

5. Click **Save**.

Settings are saved to the selected GV STRATUS servers.

6. Select the Render Engine and click **Modify**.

The Render Engine configuration page displays.

7. Configure settings as follows:

Setting or button	Description
Summit Access Protocols	FTP : Setting for FTP protocol to be used by Render Engine to access K2 Summits. CIFS or iSCSI : Setting for CIFS or iSCSI protocol to be used by Render Engine to access K2 Summits.
Maximum Concurrent Proxy Creation Jobs	Setting to specify the maximum number of concurrent proxy encoder jobs allowed on the Render Engine server.
Maximum Concurrent Conform Jobs	Setting to specify the maximum number of concurrent conform jobs allowed on the Render Engine server.
Maximum Concurrent EDIUS Project Jobs	Setting to specify the maximum number of concurrent EDIUS project jobs allowed on the Render Engine server.

You must specify the maximum number of concurrent conform jobs and the maximum number of concurrent proxy encoder jobs allowed on the Render Engine server. Use these settings to balance resource load on the GV STRATUS Express server hosting the engine.

Table 2: Maximum concurrent jobs settings on the GV STRATUS Express server

Job type	XML attribute	Maximum setting
EDIUS XRE	XRE	1
Conform Engine	Conform	1
Proxy Encoder	Transcode	2

NOTE: The total number of maximum concurrent jobs is limited by the number of available simultaneous connections with K2 Summits. If set to zero, the Render Engine does not process jobs of that type.

8. Click **Save**.

Render Engine settings are saved to the selected server.

Configure Proxy Config settings

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

NOTE: A GV STRATUS system must have only one proxy location and server, so these settings apply to all K2 Summit systems, both standalone and SAN.

NOTE: On an operational system, consult with Grass Valley Support before attempting to change Location of Proxy Assets, CIFS Server, or HTTP Server settings. Changing these settings requires a purge of the GV STRATUS database and a new K2 storage file system, which results in a loss of high-resolution and low-resolution media. Grass Valley Support can provide methods to avoid this loss of media.

To locate these settings, click **Core | Proxy Config**

1. In the Control Panel application, open Proxy Config settings.

The screenshot shows the 'Proxy Settings' tab selected. The 'Proxy Server Settings' section contains three dropdown menus, all set to 'KULAS-PROXY-1': 'Location of Proxy Assets:', 'CIFS Server:', and 'HTTP Server:'. The 'K2 Summit Settings' section has a checked checkbox for 'Enable Proxy Creation'. The 'Proxy Encoder Settings' section has a checked checkbox for 'Enable Proxy Encoders'. At the bottom are 'Save' and 'Cancel' buttons.

NOTE: GV STRATUS versions lower than 3.0 had only one Proxy Server setting. With version 3.0 and higher, the CIFS Server and HTTP Server settings must be configured to replace the Proxy Server setting.

2. If your GV STRATUS system stores its proxy on a GV STRATUS Express server, configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.

3. If your GV STRATUS system stores its proxy on an online or production K2 SAN (A1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.

4. If your GV STRATUS system stores its proxy on a dedicated Proxy Storage system (B1, C1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.

5. On the **Test Connections** tab, click **Test Connections**.

The GV STRATUS system populates a list of K2 Storage devices. Verify that this list is correct.

6. Select **Enable Proxy Creation**.

This allows K2 Summit systems to create proxy assets when high resolution assets are recorded.

7. Select **Enable Proxy Encoders**.

This allows the system to create proxy assets for any high resolution assets that do not currently have a corresponding low-resolution proxy asset. This setting applies to proxy created by Render Engine servers. If your system instead has Proxy Encoder servers, which are no longer supported, the setting then applies to proxy created by your Proxy Encoder servers.

8. Click **Save**.

9. If you changed Location of Proxy Assets, CIFS Server, or HTTP Server settings, under supervision of Grass Valley Support, you must purge the GV STRATUS database and make a new K2 storage file system.

If you are configuring K2 Summit MDI settings, you can make those settings first before doing this step. This step provides the required restart after configuring K2 Summit MDI settings.

Configuring settings: Render Engine work directory

Only systems with a Render Engine require this process.

To specify the path of work directory for the Render Engine, do the following:

1. On the Render Engine server at `..\Program Files\Grass Valley\XREServer 8\Settings`, copy the `EdiusRenderer.conf` file.
2. Paste the file into `..\Program Files\Grass Valley\XREServer 8`, and open `EdiusRenderer.conf` in a text editor.

```
# **** Configuration file for EdiusRender.exe ****
work = c:\temp
```

3. Enter a different **work** directory for your GV STRATUS operation, if applicable.

The work directory consists of temporary files for the proxy operation.

4. Save and close the `EdiusRenderer.conf` file.
5. Restart the Render Engine server.

Configure EDIUS settings in Control Panel

Do not do the tasks in this section if:

- You are upgrading EDIUS software, Render Engine software, or converting EDIUS XRE Servers to Render Engine servers. EDIUS settings are retained in GV STRATUS Control Panel and do not require configuration.

Do the tasks in this section if:

- You are adding EDIUS to your GV STRATUS system for the first time. Configure EDIUS settings in GV STRATUS Control Panel as instructed by the following tasks.

Create EDIUS project folder

If you use the Render Engine to render EDIUS projects, you must create a location for the EDIUS projects.

1. On the K2 media file system (the `v:` drive), create a folder.
2. Name the folder with a meaningful name.

For example create the following folder:

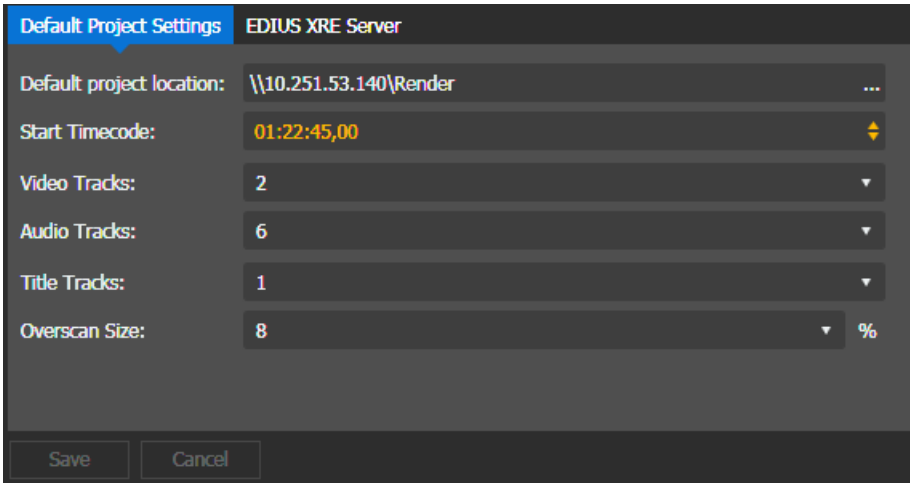
```
V:\EDIUS_Projects
```

3. Make sure the folder is shared with permission granted so that your GV STRATUS/EDIUS XS client PCs, Render Engine Servers, and EDIUS Workgroup client PCs can access the folder.
On the Render Engine Server, the internal system account, which by default is GVAdmin, accesses the folder.

EDIUS Project Settings

These settings are only required on GV STRATUS systems with EDIUS XS.

To locate these settings, in GV STRATUS Control Panel click **Applications | EDIUS | Default Project Settings**



Setting or button	Description
Default project location	The default location for your EDIUS XS projects. The location is a folder on K2 storage. Make sure this path uses the standard convention of UNC path with hostname (not drive letter) for EDIUS access to K2 storage.
Start timecode	The start timecode of your project or conformed asset. The default is set to 00:00:00,00.
Video Tracks	The number of video tracks for your project.
Audio Tracks	The number of audio tracks for your project.
Title Tracks	The number of title tracks for your project.
Overscan Size	The percentage ratio of overscan size for your project. Set to 0 if you are not using the overscan feature.

Format settings define the format of projects.

Related Topics

[Format settings](#) on page 119

[If you have trouble launching EDIUS XS](#) on page 124

[Access K2 storage for EDIUS using standard convention](#) on page 232

[Access K2 storage for EDIUS using standard convention](#) on page 232

EDIUS XRE Server Settings

These settings are only required on GV STRATUS systems with EDIUS XS.

To locate these settings, in GV STRATUS Control Panel click **Applications | EDIUS | EDIUS XRE Server**

Setting or button	Description
XRE Server	The name or IP address of the EDIUS XRE Server. This server performs a rendering process when exporting a project created in the EDIUS XS.
Port Number	The port assigned for communication with the EDIUS XRE Server. The default port number is 1223.

Related Topics

[If you have trouble launching EDIUS XS](#) on page 124

Format settings

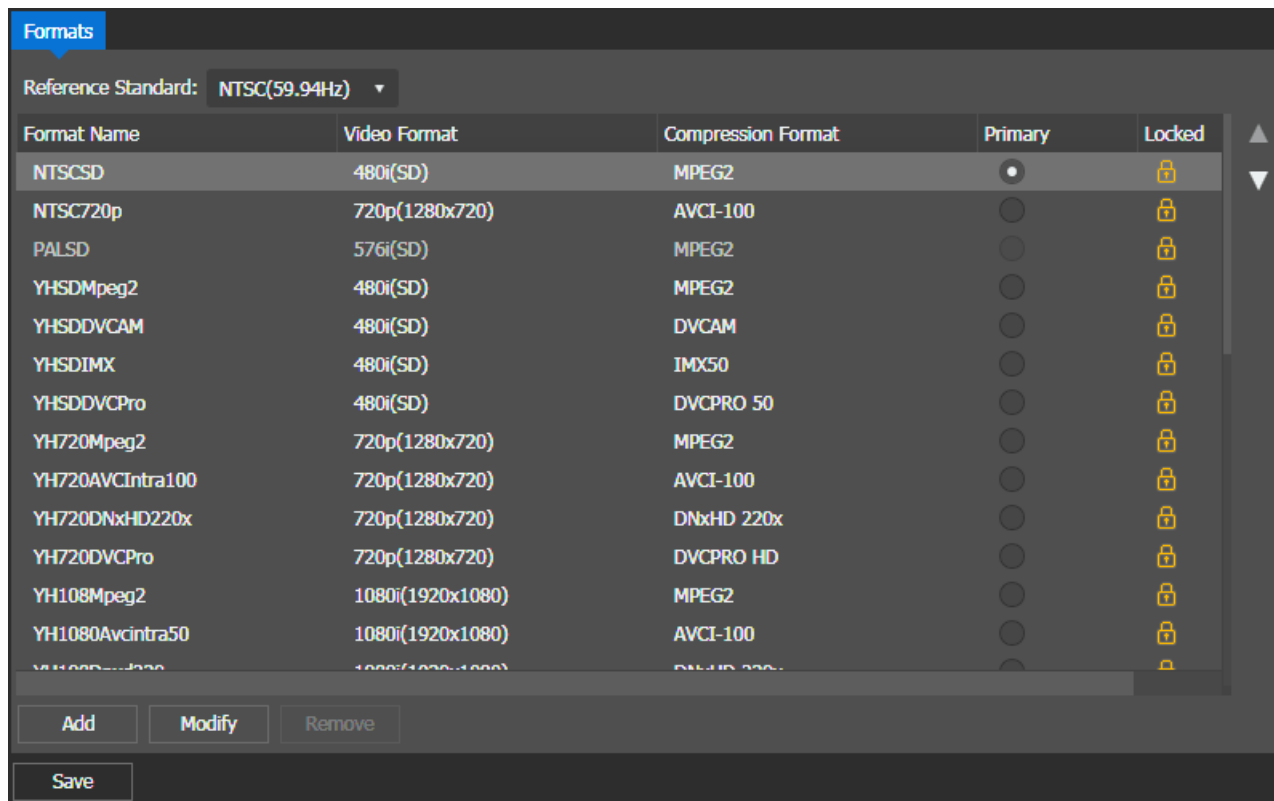
These settings are required on all GV STRATUS systems.

Format settings let you configure video and audio settings. The GV STRATUS application uses these settings as follows:

Conform	When the Render Engine conforms a complex asset, such as a GV STRATUS sequence, into a simple clip, the Format settings define the format of the simple clip.
EDIUS XS	Format settings are inherited by EDIUS XS when the application is launched and a new project is created.
GV STRATUS Rundown	Format settings define the video standard settings, such as PAL or NTSC.
Storyboard and Source Viewer	Format settings define the video standard, audio reference, etc.

Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Format | Formats**.



Setting or button	Description
Reference Standard	Sets the GV STRATUS formats available according to their Reference Standard, to match the current Reference Standard on the K2 system. Formats that do not match this setting are disabled in the list. When changing and saving this setting, a corresponding primary format must be selected.
Format Name, Video Format, Compression Format, etc	Format settings, as configured in the Format Settings dialog box.
Primary	The default format for configuration. For example, when configuring a Send Destination, the primary format is set by default, but a different format can be selected if desired. NOTE: A primary format must be selected. Multiple primary formats are not allowed.
Locked	Indicates if a format name can be modified. A format that is currently configured in a Send Destination displays a closed lock icon. A dialog box prompts for confirmation before a locked format name can be modified.
Add	Opens the Format Settings dialog box for you to add formats.
Modify	Opens the Format Settings dialog box for the selected format.
Remove	Removes the selected format. The format currently selected as the primary format can not be removed.

Setting or button	Description
Save	Saves the current configuration of added formats and their order.

Clicking column heads and/or arrow buttons on the right reorders the list of formats.

Related Topics

[K2 - Send Destination settings](#) on page 307

[Send Destination Add/Modify settings](#) on page 308

[Configuring Format settings: Required](#)

CIFS EDIUS/GV Render Engine Setup

1. Install/upgrade EDIUS and GV Render Engine software as directed by standard instructions in GV STRATUS 5.0 (SP1) Topic Library.

2. Mount STRATUS 5.0 (SP1) Topic Library.

- For Summit

3. Add and configure K2 Summits as directed by standard instructions in GV STRATUS 5.0 (SP1) Topic Library.
4. In GV STRATUS 5.0 (SP1) Topic Library.

- For Summit

local

with

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- For Summit

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The image shows the 'MDI Configuration' dialog box. It contains the following fields and options:

- MDI Type:** Summit (dropdown)
- MDI Name:** SummitMDI (text)
- Hostname of device running the MDI:** stratus (dropdown)
- Port number:** 9161 (text)
- Type of K2 device:** SAN (radio), **Standalone** (radio), K2 Central (radio), Third Party Storage (radio)
- Select K2 Standalone:** kd_summit_10 (dropdown)
- UNC Path:** \\kd_summit_10\V (text)
- Account used to connect to K2 Standalone or SAN:**
 - User Name:** GVAdmin (text)
 - Domain:** (text)
 - Password:** (password field)
- FTP Transfer Server:**
 - FTP Server Name:** kd_summit_10_he0 (dropdown)
 - Maximum concurrent transfers :** 4 (dropdown)
 - FTP User Account:** movie (text)
 - FTP Password:** (password field)

Buttons: Save, Cancel

5. Follow the instructions in the this Topic Library to complete EDIUS and GV Render Engine setup for CIFS mount.

Related Topics

[Configuring CIFS Render Engine settings](#)

Using the EDIUS Project Migration tool

To work on existing EDIUS projects after upgrading to GV STRATUS version 4.5 and above, you need to migrate your projects using the EDIUS Project Migration tool.

The project migration tool does not reconstruct contents locks. It only creates associations between EDIUS Project Group and EDIUS Project file in the GV STRATUS database.

The EDIUS Project Migration tool will be installed automatically when EDIUS XS is deployed with SiteConfig or the Standalone Installation Kit.

You must launch the MS-DOS Command Prompt and use the command line below to utilize the EDIUS Project Migration tool.

```
EdiusProjectMigration.exe [Action] [Options] <host>
```

NOTE: Only [Options] are optional in the command line.

Refer to the table below for the list of supported commands for the EDIUS Project Migration tool:

Command Line	Description
-m, --migrate	[Action] : Migrate EDIUS projects or templates into GV STRATUS server.
--deleteGroup={URI}	[Action] : Delete content of the group specified in {URI} of the GV STRATUS server.
-t, --test	[Action] : Test the migration with GV STRATUS server only. There is no change in the GV STRATUS database.
--deleteLocks	[Action] : Delete the EDIUS Lock bin after the project tree is constructed.
-h, --help	[Action] : Show options for the project migration tool.
-p, --port={PORT}	[Option] : Port number in order to use the Asset API.
-s, --scanFilesystem	[Option] : Scan not only the EDIUS lock bin, but also the whole file system.
-d, --destination={URI}	[Option] : Destination of EDIUS projects to be migrated specified in {URI} of the GV STRATUS server.
--templates	[Option] : Migrate EDIUS templates only instead of EDIUS projects.
-x, --xml={DIRECTORY}	[Option] : Directory to store the XML file. When this option is specified, the tool will not construct project tree in GV STRATUS core server.
-i, --interactive	[Option] : Wait for key input before updating the GV STRATUS database.
<host>	Host name of the GV STRATUS Core server. It is mandatory to include the host name in the command line.

Migrating EDIUS projects

- You have existing EDIUS projects created with GV STRATUS version 4.0 and below in your system.
- You just upgraded your GV STRATUS system to version 4.5 and above.
- You have installed the EDIUS Project Management tool.
- The EDIUS Lock bin must not be deleted until all projects are saved again in EDIUS.

You must use the EDIUS Project Migration tool to migrate your projects after upgrading the GV STRATUS application.

1. Launch the MS-DOS Command Prompt and change directory to the location of the EDIUS Project Migration tool.
2. To test the migration and view the EDIUS project structure in an XML file, you need to use the "-x" option and do one of the following:

- If you have EDIUS Lock in your system, enter the following command:

```
EDIUSProjectMigration.exe -x=c:\temp -t core-server-name
```

- If you don't have EDIUS Lock in your system, enter the following command:

```
EDIUSProjectMigration.exe -x=c:\temp -t -s core-server-name
```

NOTE: The "-s" option is needed to scan the entire file system. If not, the tool will only scan the EDIUS Lock bin.

You can view the XML file in the directory that you specified on the command line.

3. To migrate your EDIUS projects, do one of the following:

- If you have EDIUS Lock in your system, use the following command:

```
EDIUSProjectMigration.exe -m core-server-name
```


- If you don't have EDIUS Lock in your system, use the following command:

```
EDIUSProjectMigration.exe -m -s core-server-name
```

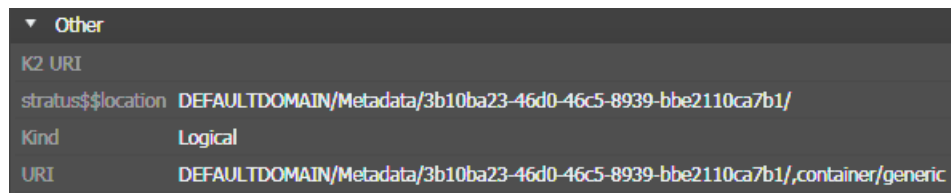
NOTE: The "-s" option is needed to scan the entire file system for EDIUS projects.

EDIUS Projects directory displays under the EDIUS Projects node in GV STRATUS and EDIUS applications.

Removing EDIUS projects from Assets | EDIUS Projects node

- Existing EDIUS projects have been migrated using the EDIUS Project Migration tool.
 - You already saved a backup of the folder to be removed.
1. In the EDIUS Projects node of the GV STRATUS Navigator, select the group folder of EDIUS projects that you want to remove.
 2. Drag the selected bin and drop it into the Inspector.
The group folder properties load into the Inspector.
 3. On the **Properties** tab, click the arrow  to display **Other** properties.

- Right-click on the URI and select **Copy "URI" value** to copy the Group ID of the folder.



- Launch the MS-DOS Command Prompt and change directory to the location of the EDIUS Project Migration tool.
- To delete projects in the group folder, enter the following command:

```
EDIUSProjectMigration.exe --deleteGroup=URI-value core-server-name
```

Below is the example of the command line:

```
EDIUSProjectMigration.exe
--deleteGroup=DEFAULTDOMAIN/Metadata/3b10ba23-46d0-46c5-8939-bbe2110ca7b1/,container/generic
stratuscore1
```

The EDIUS project and its sub-folders are removed from the group folder. However, the group folder is not deleted via the EDIUS Project Migration tool.

Deleting EDIUS Lock bin

- You already have a backup of the EDIUS Lock bin in your system.
 - Existing EDIUS projects have been migrated using the EDIUS Project Migration tool.
 - The EDIUS Lock bin must not be deleted until all projects are saved again in EDIUS.
- Launch the MS-DOS Command Prompt and change directory to the location of the extracted EDIUS Project Migration tool.
 - To delete the EDIUS Lock bin, enter the following command:

```
EDIUSProjectMigration.exe --deleteLocks core-server-name
```

EDIUS Lock bin and its contents are removed from GV STRATUS and K2 AppCenter applications.

NOTE: *If an asset or part of the asset is in use or referenced, the asset will not be deleted.*

If you have trouble launching EDIUS XS

Confusion about EDIUS for GV STRATUS licensing can cause problems.

The following is required in order to launch the EDIUS for GV STRATUS as a low-resolution editor (EDIUS XS) correctly:

- Your GV STRATUS system must have a Flex, Pro, or Elite license.
- You must be logged on with the EDIUS XS role assigned.
- The client PC on which you are launching EDIUS must not be licensed for EDIUS Workgroup. This is an EDIUS license, installed on the client PC and managed by EDIUS license management. It is not a Sabretooth license.

The EDIUS for GV STRATUS application can launch and operate as follows:

- A high resolution editor, identified as EDIUS Workgroup, which can operate in STRATUS mode or in standalone mode. In STRATUS mode, the EDIUS for GV STRATUS application can access GV STRATUS high resolution assets. In standalone mode, the EDIUS for GV STRATUS application cannot access GV STRATUS high resolution assets.
- A low resolution proxy editor, identified as EDIUS XS, which operates in a single mode that must access GV STRATUS proxy assets.

Both of these applications can launch from the **EDIUS** icon .

The same EDIUS software installation package is used to install both types of EDIUS for GV STRATUS applications, so there can be confusion about which application is being launched. This is especially true if licenses for both applications apply to the same client PC, which is not supported. When you launch an EDIUS for GV STRATUS application, it detects the licensing on the client PC. If licensed for EDIUS Workgroup, you are prompted to logon and the EDIUS Workgroup application always launches. You cannot launch EDIUS XS. If not licensed for EDIUS Workgroup you are prompted to logon. Based on your logon, the application checks licensing and roles on the GV STRATUS Core server. If the license includes EDIUS XS and your logon account is assigned the EDIUS XS role, EDIUS XS launches. Therefore, if you have ever licensed the client PC for EDIUS Workgroup, do not use that PC for EDIUS XS.

Upgrade Workflow Server, license, configure Rules

Follow the topics in this section to upgrade Workflow Server components in your system.

This section also contains topics for licensing and configuring GV STRATUS Rules. These topics apply to a Workflow Server. The topics can also apply to your Core Server, if you host the software that supports GV STRATUS Rules on your Core Server rather than on a Workflow Server.

SiteConfig Workflow Server software install

Only systems with a Workflow Server require this process.

If you received your system pre-configured from Grass Valley, software is already installed, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your GV STRATUS system has one or more GV STRATUS servers that are Workflow Servers, install software on those servers.

If your GV STRATUS system has a single GV STRATUS Express server or a GV STRATUS Core server and no Workflow Servers, the GV STRATUS Express server or GV STRATUS Core server has Workflow Server software installed. Follow software installation instructions for the GV STRATUS Express server or GV STRATUS Core server, rather than the instructions in this section.

Upgrade software on a Workflow Server

Only systems with one or more GV STRATUS servers that are Workflow Servers require this process. Use SiteConfig to install software on the Workflow Servers.

1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Event Viewer
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Control Panel
 - GV Log Manager
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.
 3. Add the following files to the deployment group:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*.
- Refer to release notes for version numbers.
4. Do the SiteConfig **Check Software** operation on the server.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
 5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
 6. Deploy software to the server.

7. Restart as prompted.

When running the Data Mover Engine on the Workflow Server, make sure the Workflow Server can access all potential communication partners for the DME, including the FTP network of the K2 SAN and standalone systems.

Next, install an optional XCODECONTROL license, if appropriate for your system.

SabreTooth Rules, Xcode license process

Only the GV STRATUS server with role of Common Services requires this process.

The Workflow license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

One STRATUS-RULES license is required for the Rules Engine software component in your GV STRATUS system. This is a SabreTooth floating license. Optional licenses for associated functionality include the following:

- STRATUS-XCODECONTROLCARBONCODER
- STRATUS-XCODECONTROLVANTAGE
- STRATUS-XCODECONTROLELEMENTAL
- STRATUS-ASPERA
- STRATUS-BRIGHTCOVE
- STRATUS-XCODECONTROLMEWS
- STRATUS-XCODECONTROLMEWSEXT

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

Upgrading GV STRATUS Rundown systems

This section contains the tasks necessary for the upgrade to this release of software.

Upgrading GV STRATUS Rundown devices with SiteConfig

This section contains the tasks for using SiteConfig to upgrade to this release of software. Work through the tasks sequentially to complete the upgrade.

NOTE: *These upgrade instructions assume that current software is at version 6.5.0 or higher. If you have a lower version of software, contact Grass Valley Support before upgrading.*

About upgrading GV STRATUS Rundown devices with SiteConfig

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

NOTE: Do not use the upgrade instructions in this document if upgrading with SiteConfig for the first time.

If SiteConfig was not used for your previous software install, do not use the upgrade instructions in these release notes. Instead, use the *SiteConfig Migration Instructions*. Before you upgrade software using SiteConfig, each of your product devices must be migrated to become a SiteConfig managed device. This includes installing SiteConfig support on the device, manually uninstalling any and all components, and qualifying the device for communication with SiteConfig. These instructions are in the *SiteConfig Migration Instructions*. Also refer to the *SiteConfig User Manual* or *SiteConfig Help Topics*.

The upgrade instructions in this document apply to the following device:

- GV STRATUS Rundown Server and Client

To upgrade software using SiteConfig, you must first have SiteConfig set up for system management and software deployment in your facility. These upgrade instructions assume that you have already done that for your K2 SAN. Then you add your product devices to the SiteConfig system description that you are using for your K2 SAN.

NOTE: Do not attempt to upgrade software incrementally across the devices of a K2 SAN while media access is underway. Online software upgrading is not supported.

The following installation tasks provide information specifically for the upgrade to this version of software. Read the information in these sections carefully before attempting any upgrade to software.

Prepare for upgrade

Before upgrading, do the following:

- Procure the software installation files for this release via the appropriate distribution method, such as download, CD-ROM, network drive, or external drive.
- Start up the devices you are upgrading, if they are not already started.
- Stop all media access on the devices you are upgrading.
- Shut down all applications on the devices you are upgrading.

Apply these steps to devices in the SiteConfig system description.

- If your system includes Aurora Payout, do the following:
 - a) On the Core/Express server, remove the **Aurora Payout Server Components** role.
 - b) On the Core/Express server, add the **GV STRATUS Rundown Server Components** role.
 - c) On GV STRATUS/Aurora Payout client PCs, remove the **Aurora Payout Application** role.
 - d) On GV STRATUS/Aurora Payout client PCs, add the **GV STRATUS Rundown Application** role.

Prepare SiteConfig for software deployment

Do the following to prepare SiteConfig for the software upgrade.

1. Make the following files accessible to the SiteConfig control point PC:
 - GV STRATUS Rundown software installation (*.cab) file
 - DiscoveryAgent_x.x.xxx(*.cab) file
2. If a newer version of SiteConfig is available for upgrade and you have not yet upgraded SiteConfig, do the following:
 - a) From Windows **Programs and Features**, uninstall the current version of SiteConfig from the control point PC.
 - b) Install the new version of SiteConfig on the control point PC.
3. If not already present in the SiteConfig system description, configure deployment groups as follows:
 - A deployment group that contains your GV STRATUS Rundown devices.

Install Grass Valley Prerequisite Files on the SiteConfig PC

GV STRATUS VTR Ingest, GV STRATUS VTR Controller, and GV STRATUS Rundown share Microsoft .NET as common prerequisite software. This common software is installed with *Prerequisite Files 2.0.exe*, which is part of a separate installation package. You install this prerequisite software package on the control point PC so that when SiteConfig deploys any software that needs the prerequisite software, it uses the software installation files from the common package. This reduces the size of .cab files overall and makes software download more manageable.

1. Check release notes for the required version of prerequisite files, if any.
2. On the SiteConfig PC, open Windows Add/Remove programs and look for **Grass Valley Prerequisite Files**, then proceed as follows:
 - If the required version of prerequisite files is installed, do not proceed with this task.
 - If prerequisite files are not installed or are not at the required version, proceed with this task.
3. Procure the required prerequisite software installation file as listed in the following:

Product	Prerequisite file	Location
GV STRATUS Rundown, GV STRATUS VTR Ingest, GV STRATUS VTR Controller	GrassValley_PrerequisiteFiles_2.0.0.zip (Microsoft .NET installer)	Grass Valley website SiteConfig Application software download page.

4. On the SiteConfig PC, run the installation file. The installation program copies prerequisite files to *C:\Program Files\Grass Valley\Prerequisite Files*.

After installing prerequisite files on the SiteConfig PC, use SiteConfig and deploy software to client PCs.

Configure Playout Servers

You need to configure playout servers in the GV STRATUS Control Panel to enable automatic transfer of assets into the playout servers. When assets are dragged from GV STRATUS into the GV STRATUS Rundown playlist, the system would trigger a transfer – from the media server to the playout server of GV STRATUS Rundown.

For each of your GV STRATUS Rundown Playout Servers, in GV STRATUS Control Panel do the following:

- a) Configure a Summit MDI.
- b) Add the Playout Server.

Related Topics

[Summit MDI standalone settings](#) on page 255

[Summit MDI SAN settings](#) on page 257

[Rundown Add/Modify Server settings](#) on page 328

Upgrade K2 systems

- All K2 Summit systems must upgrade to .NET 4.6.1, if that version of .NET is not already installed.
- You have procured the necessary software and documentation for the upgrade. Go to http://www.grassvalley.com/dl/k2_summit and refer to the "Release Notes" section of the K2 Topic Library to determine the compatible software versions and documentation required.
- All standalone K2 Summit systems must be offline (all media access stopped) or shut down. The power must be off for a few seconds before switching it on again.
- If upgrading a K2 SAN, all SAN clients must be offline (all media access stopped) or shut down. The power must be off for a few seconds before switching it on again. Depending on your system design, this could include devices such as SAN-attached K2 Summit systems, GV STRATUS servers, and GV STRATUS Client PCs.

NOTE: When upgrading from a K2 software version lower than 9.x to a K2 software version at 9.x or higher, you must reimaging each K2 Summit system. Hardware upgrades might also be required on a K2 Summit system.

1. Upgrade your K2 systems to the compatible version of K2 system software. This includes K2 SAN systems and stand-alone K2 Summit systems.

When upgrading for compatibility with GV STRATUS, use *GrassValley_K2system_x.x.x.cab* file, which contains the required *GrassValley_STRATUS_SummitServices_x.x.x.cab* file.

2. On systems running Embedded Security, do the one-time initial deployment process for the Embedded Security solution, if you have not already done so.
3. Configure the Summit MDI settings in GV STRATUS Control Panel for each K2 Summit system that you use with the GV STRATUS Rundown application.

Distribute devices into deployment groups

If you have not already done so, configure your deployment groups. The recommended deployment group distribution is as follows. Depending on your system design, your system might not have all the device types listed.

Add your GV STRATUS Rundown Server(s) and GV STRATUS Rundown clients to the deployment group.

- In a deployment group named "GV STRATUS Rundown", place the following devices:
 - GV STRATUS Rundown client PC connected on the corporate LAN for low-resolution (proxy) workflow
 - GV STRATUS Rundown client PC connected on the media (iSCSI) network for high-resolution workflow
 - GV STRATUS core server with roles as follows:
 - GV STRATUS Rundown Server Components
 - GV STRATUS Rundown Hot Standby SDB

Install Important Windows updates (recommended)

- For systems running the full (not embedded) Windows operating system, Windows “Important” updates are recommended, but not required. While your computer is in an offline state to upgrade software, check for updates to install. Use standard Windows procedures.

⚠ CAUTION: *Only “Important Updates” should be installed. Do not install other Windows or driver updates unless specifically directed by product documentation or by Grass Valley Support.*

NOTE: *If a computer does not have the Grass Valley Embedded Security solution one-time initial deployment process applied, do not install any Windows updates. Apply the one-time process before installing Windows updates.*

Check all currently installed software on GV STRATUS Rundown devices

- The device must be assigned in the SiteConfig system description and network connectivity must be present.
- SiteConfig must be able to log in to the device using the username/password credentials assigned to the device.
- The SiteConfig PC must not have a network drive mapped to an administrative share (such as C\$) on a device on which you are checking software.

- If Aurora product software at a version lower than 6.5.2 is currently installed, it must be manually uninstalled. For more information refer to *SiteConfig Migration Instructions*.

Do the following steps on the device that you are upgrading.

1. In the **Software Deployment | Deployment Groups** tree view, right-click the top-most node for the group or any individual device and select **Check Software**.

NOTE: *If you have access problems, verify that the administrator account on the device has credentials as currently configured in SiteConfig.*

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

The Check Software dialog box appears. SiteConfig searches for software on the selected device or devices and gathers information. Progress is reported.

2. When the check is complete, close the Check Software dialog box.

An updated list of all currently installed software is displayed in the **Software Deployment | Devices | Installed Software** list view. If software is a SiteConfig managed software package, information is displayed in the Managed Package and Deployment Group columns.

Add software package to deployment group for GV STRATUS Rundown devices

Prerequisites for this task are as follows:

- You can access the software package file from the SiteConfig control point PC.
- The devices to which you are deploying software are in a deployment group.

Use the following procedure to add one or more software packages to the deployment group that contains your GV STRATUS Rundown devices. For this release of software, identify and add software installation file as follows:

Software	File name
GV STRATUS Rundown software	GV_STRATUS_Rundown_x.x.x.x.cab

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. Click the **Add** button.
The Add Package(s) dialog box opens.
3. Do one of the following to select the software package:
 - Select from the list of packages then click **OK**.
 - Click **Browse**, browse to and select the package, then click **Open**.
4. If one or more EULAs are displayed, accept them to proceed. If you do not accept a EULA, the associated software is not assigned to the deployment group.
SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

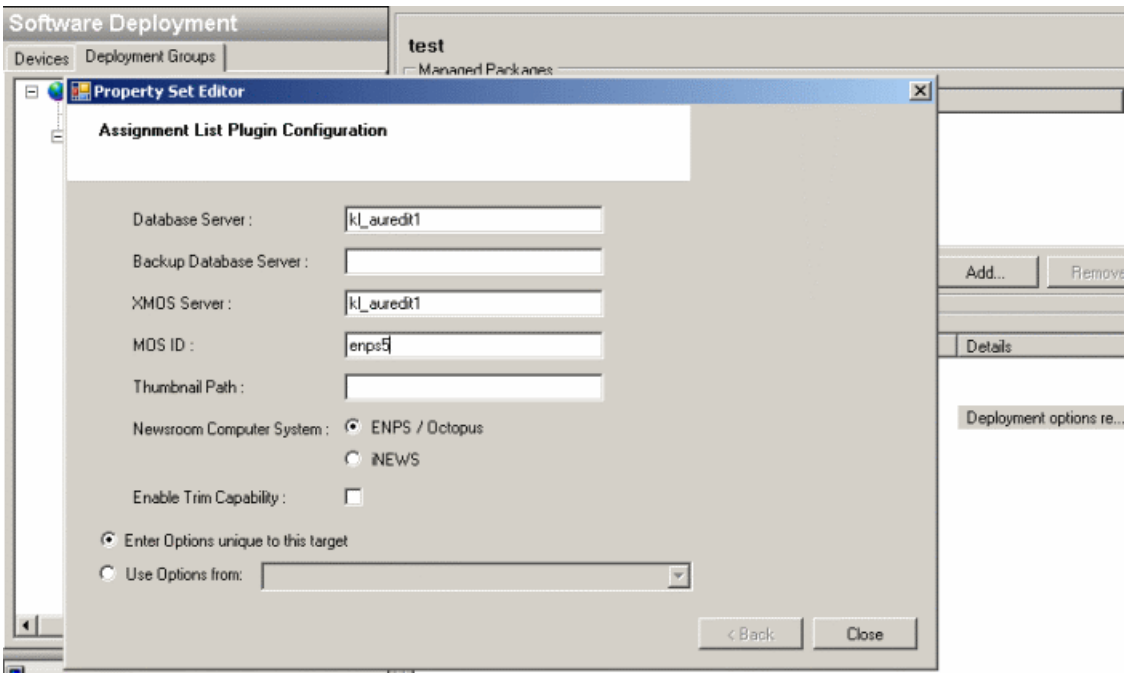
Upgrade software on GV STRATUS Rundown devices

- The devices that you are upgrading must be in a deployment group.
- For the software you are upgrading, a newer version of that managed software package must be added to the deployment group.
- Grass Valley Prerequisite Files must be installed on the control point PC.
- A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.

If you are upgrading multiple software components for which there is a required sequence, you must check and uncheck tasks and run multiple deployment sessions to control the sequence. For some software components, SiteConfig aids you by enforcing dependencies. For each individual software component, SiteConfig enforces an uninstall of the current version of software before installing the upgrade version. SiteConfig provides uninstall deployment tasks and install deployment tasks to indicate the taskflow. SiteConfig can do the uninstall/install in a single deployment session.

1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.
The corresponding software deployment tasks are displayed in the Tasks list view.
2. For the software you are deploying, select the **Deploy** check box in the row for the uninstall task.

3. For the software you are installing, select the **Deploy** check box in the row for the install task.
- If you have the Assignment List Plugin role assigned to a playout device, then you will have to set deployment options. The **Details** column will indicate **Deployment options required**.
- Click the **Deployment options required** link and a wizard page appears.



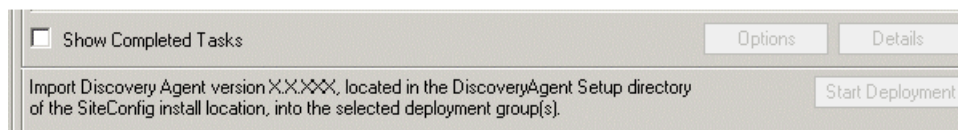
Key-in the Database Server, XMOS Server, MOS ID and select the appropriate Newsroom Computer System in your operation. Then, click **Close**.

For upgrading GV STRATUS Rundown to this release, deploy the following tasks:

Deploy	Managed Package	Action
✓	GV_STRATUS_Rundown xxxx.xxxx	Uninstall
✓	GV_STRATUS_Rundown x.x.x.x	Install
✓	PCmonitoring x.x.x.xx	Install

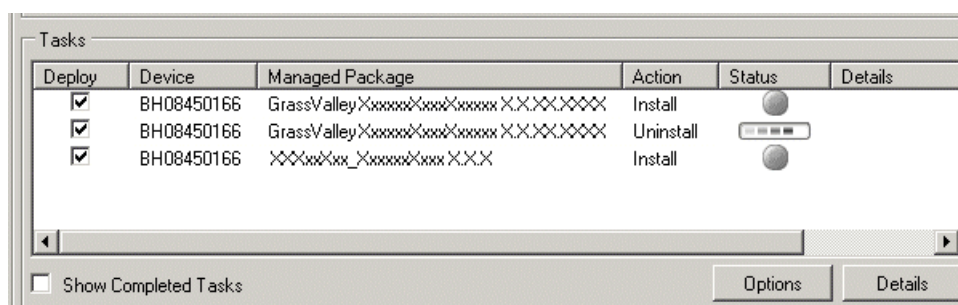
NOTE: *If there are dependencies, SiteConfig can enforce that some tasks be deployed together.*

4. Check the area next to the Start Deployment button for a message.



If a message instructs you to upgrade the Discovery Agent, on the control point PC go to the directory to which SiteConfig is installed, find the *DiscoveryAgent_x.x.x.x.cab* file, add it to the deployment group, and deploy the Discovery Agent software as well.

5. Click the **Start Deployment** button.



Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns. If an error appears regarding prerequisite software, install the Grass Valley Prerequisite Files on the control point PC and then repeat this step.

6. When the Status or Details columns indicate next steps, identify the software in the row, then do one of the following:
 - For K2 software, when Details displays a **Restart required** link (but not "Visible dialog pending..."), click the link and when prompted "...are you sure...", click **Yes**.

The device restarts. This restart is required by the GV STRATUS Rundown software uninstall.

Deployment tasks run and software is installed. Progress is reported and next steps are indicated in both the Status and Details columns.

7. When the Status or Details columns indicate next steps, identify the software in the row, then do one of the following:
 - For K2 software, when Details displays a **Restart required** link (but not "Visible dialog pending..."), click the link and when prompted "...are you sure...", click **Yes**.

The device restarts.

- Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Upgrade NAS systems

- K2 systems must be upgraded to the compatible version of K2 system software.

- GV STRATUS Rundown systems must be upgraded to the compatible versions of software.
Upgrade the Proxy NAS (K2 Nearline SAN) to the compatible version of K2 software. Use SiteConfig and deploy software, using steps similar to those for other systems.
 - a) Check software on the Nearline SAN's K2 Media Servers.
 - b) Add software *.cab file to the deployment group that contains the K2 Media Servers.
 - c) Upgrade software on K2 Media Servers via a SiteConfig deployment session.

Installing and Upgrading GV STRATUS VTR Ingest

This section contains the tasks necessary to install this release of software.

About installing GV STRATUS VTR Ingest devices with SiteConfig

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

If SiteConfig was not used for your previous software install, do not use the upgrade instructions in these release notes. Instead, use the *SiteConfig Migration Instructions*. Before you upgrade software using SiteConfig, each of your product devices must be migrated to become a SiteConfig managed device. This includes installing SiteConfig support on the device, manually uninstalling any and all components, and qualifying the device for communication with SiteConfig. These instructions are in the *SiteConfig Migration Instructions*. Also refer to the *SiteConfig User Manual* or *SiteConfig Help Topics*.

The upgrade instructions in this document apply to the following devices:

- GV STRATUS VTR Ingest
- GV STRATUS VTR Controller

To upgrade software using SiteConfig, you must first have SiteConfig set up for system management and software deployment in your facility. These upgrade instructions assume that you have already done that for your K2 SAN. Then you add your product devices to the SiteConfig system description that you are using for your K2 SAN.

NOTE: Do not attempt to upgrade software incrementally across the devices of a K2 SAN while media access is underway. Online software upgrading is not supported.

The following installation tasks provide information specifically for the upgrade to this version of software. Read the information in these sections carefully before attempting any upgrade to software.

Prepare for install

Before installing, do the following:

- Procure the software installation files for this release via the appropriate distribution method, such as download, CD-ROM, network drive, or external drive.
- Start up the devices to which you are installing, if they are not already started.

- Stop all media access on the devices to which you are installing.
- Uninstall Aurora VTR Ingest/VTR Controller manually if you have them in your device, before installing GV STRATUS VTR Ingest.


Prepare SiteConfig for software deployment

Do the following to prepare SiteConfig for the software upgrade.

1. Make the following files accessible to the SiteConfig control point PC:
 - File for all GV STRATUS VTR Ingest devices:
 - GV STRATUS VTR Ingest software installation (*.cab) file
2. If a newer version of SiteConfig is available for upgrade and you have not yet upgraded SiteConfig, do the following:
 - a) From Windows **Programs and Features**, uninstall the current version of SiteConfig from the control point PC.
 - b) Install the new version of SiteConfig on the control point PC.
3. If adding a new 64-bit Windows 7 device in SiteConfig, make sure to select x64 as the platform type. This will enable the 64 bit versions of iSCSI and SNFS to be installed instead of the default 32-bit.
4. If not already present in the SiteConfig system description, configure deployment groups as follows:
 - A deployment group that contains your GV STRATUS VTR Ingest devices

Install Important Windows updates (recommended)

- For systems running the full (not embedded) Windows operating system, Windows “Important” updates are recommended, but not required. While your computer is in an offline state to upgrade software, check for updates to install. Use standard Windows procedures.

 **CAUTION:** Only “Important Updates” should be installed. Do not install other Windows or driver updates unless specifically directed by product documentation or by Grass Valley Support.

NOTE: If a computer does not have the Grass Valley Embedded Security solution one-time initial deployment process applied, do not install any Windows updates. Apply the one-time process before installing Windows updates.

Upgrade K2 systems

- All K2 Summit systems must upgrade to .NET 4.6.1, if that version of .NET is not already installed.
- You have procured the necessary software and documentation for the upgrade. Go to http://www.grassvalley.com/dl/k2_summit and refer to the "Release Notes" section of the K2 Topic Library to determine the compatible software versions and documentation required.
- All standalone K2 Summit systems must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again.

- If upgrading a K2 SAN, all SAN clients must be offline (all media access stopped) and shut down. The power must be off for a few seconds before switching it on again. Depending on your system design, this could include devices such as SAN-attached K2 Summit systems, GV STRATUS servers, and GV STRATUS Client PCs.

NOTE: *When upgrading from a K2 software version lower than 9.x to a K2 software version at 9.x or higher, you must reimaging each K2 Summit system. Hardware upgrades might also be required on a K2 Summit system.*

1. Upgrade your K2 systems to the compatible version of K2 system software. This includes K2 SAN systems and stand-alone K2 Summit systems.
When upgrading for compatibility with GV STRATUS, use *GrassValley_K2system_x.x.x.cab* file, which contains the required *GrassValley_STRATUS_SummitServices_x.x.x.cab* file.
2. For K2 storage systems, do the following:
 - If any K2 Summit clients have a GVRE/Encoder set as an FTP Server, do the following:
 - Go to each K2 Summit client with a GVRE/Encoder FTP server and click the **Change Server** button.
 - Verify that the FTP Server settings change to a desired FTP Server.
 - Reboot the K2 Summit clients.
 - Remove all GVREs/Encoders from K2Config and add them back without the FTP Server role.
 - Sync K2Config to the GV STRATUS core server.
3. For Grass Valley SMB Storage systems, do the following:
 - Remove all GVREs/Encoders from K2Config.
 - Map the V: drive manually on each GVRE.
 - Sync K2Config to the GV STRATUS core server.
4. On systems running Embedded Security, do the one-time initial deployment process for the Embedded Security solution, if you have not already done so.

Install Grass Valley Prerequisite Files on the SiteConfig PC

GV STRATUS VTR Ingest, GV STRATUS VTR Controller, and GV STRATUS Rundown share Microsoft .NET as common prerequisite software. This common software is installed with *Prerequisite Files 2.0.exe*, which is part of a separate installation package. You install this prerequisite software package on the control point PC so that when SiteConfig deploys any software that needs the prerequisite software, it uses the software installation files from the common package. This reduces the size of .cab files overall and makes software download more manageable.

1. Check release notes for the required version of prerequisite files, if any.
2. On the SiteConfig PC, open Windows Add/Remove programs and look for **Grass Valley Prerequisite Files**, then proceed as follows:
 - If the required version of prerequisite files is installed, do not proceed with this task.
 - If prerequisite files are not installed or are not at the required version, proceed with this task.

3. Procure the required prerequisite software installation file as listed in the following:

Product	Prerequisite file	Location
GV STRATUS Rundown, GV STRATUS VTR Ingest, GV STRATUS VTR Controller	GrassValley_PrerequisiteFiles_2.0.0.zip (Microsoft .NET installer)	Grass Valley website SiteConfig Application software download page.

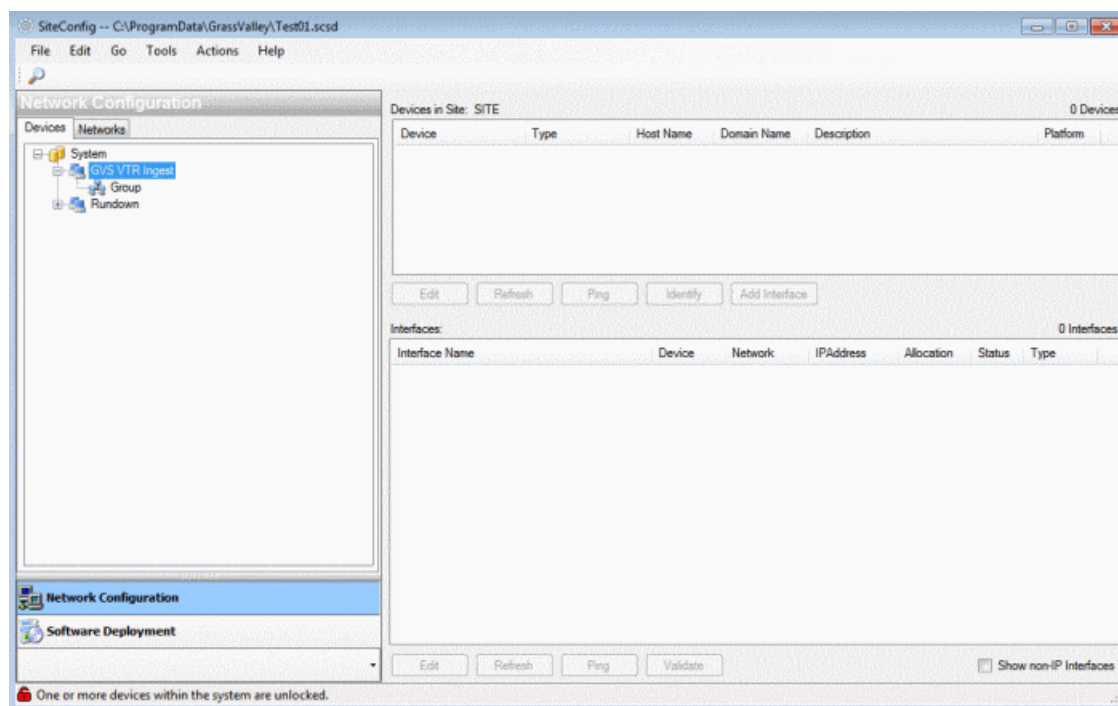
4. On the SiteConfig PC, run the installation file. The installation program copies prerequisite files to *C:\Program Files\Grass Valley\Prerequisite Files*.

After installing prerequisite files on the SiteConfig PC, use SiteConfig and deploy software to client PCs.

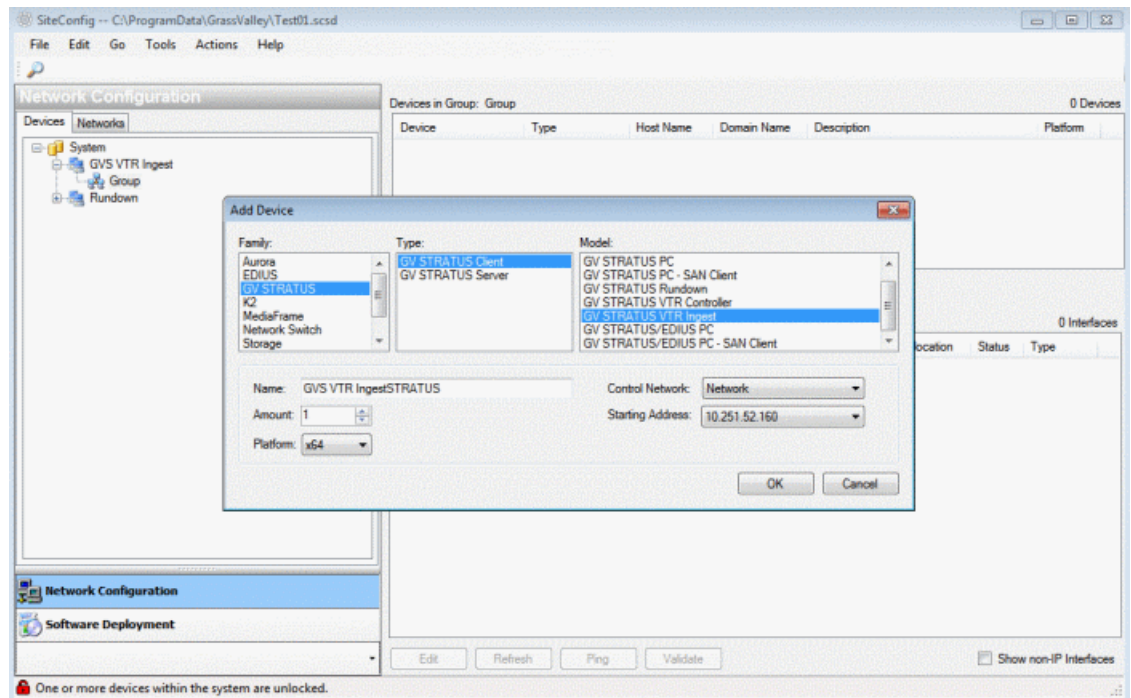
Installing GV STRATUS VTR Ingest with SiteConfig

Follow the steps below for initial setup or installation of GV STRATUS VTR Ingest with SiteConfig. For an upgrade, you can modify steps accordingly.

1. Use the SiteConfig shortcut on the Windows desktop or in the Start menu to open SiteConfig.
2. The SiteConfig main window opens.



3. In the **Network Configuration | Devices | System | GV VTR Ingest** list view, right-click a group and select **Add Device**.



The Add Device dialog box opens.

4. Configure settings for the GV STRATUS VTR Ingest as follows:

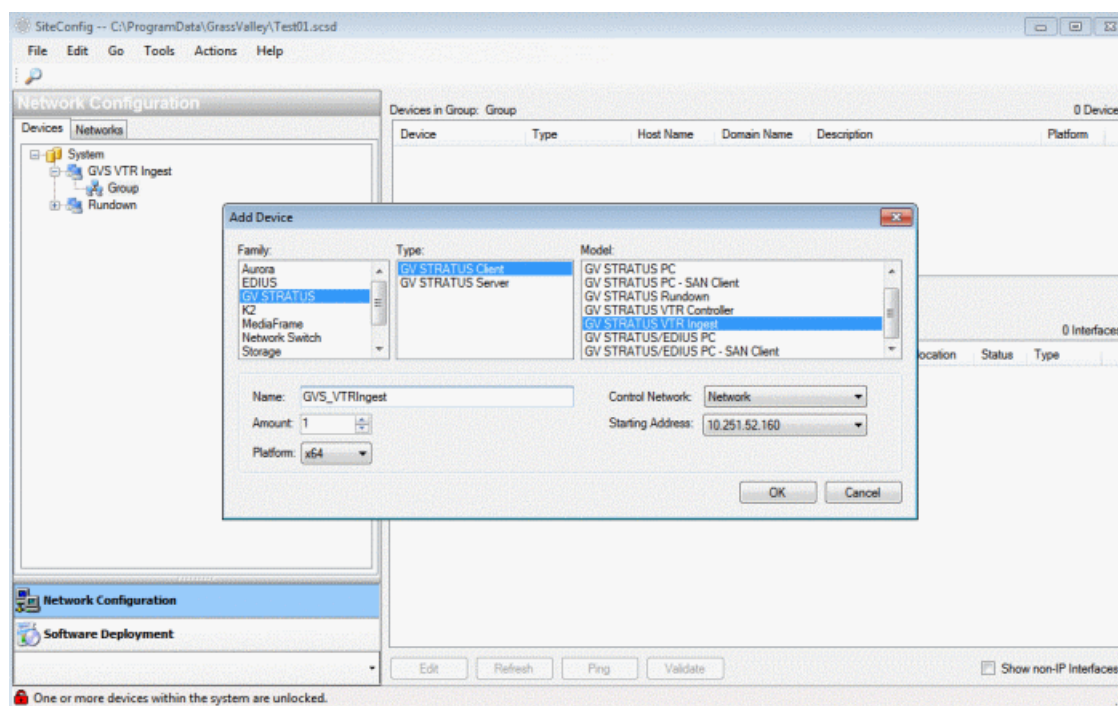
- Family – Choose GV STRATUS.
- Type - Choose GV STRATUS Client.
- Model - Choose GV STRATUS VTR Ingest.
- Name – Type GV STRATUS VTR Ingest.

NOTE: This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.

- Amount – Select 1 since you are only adding one device.
- Platform type - Select x64 since the device has a 64 bit OS.

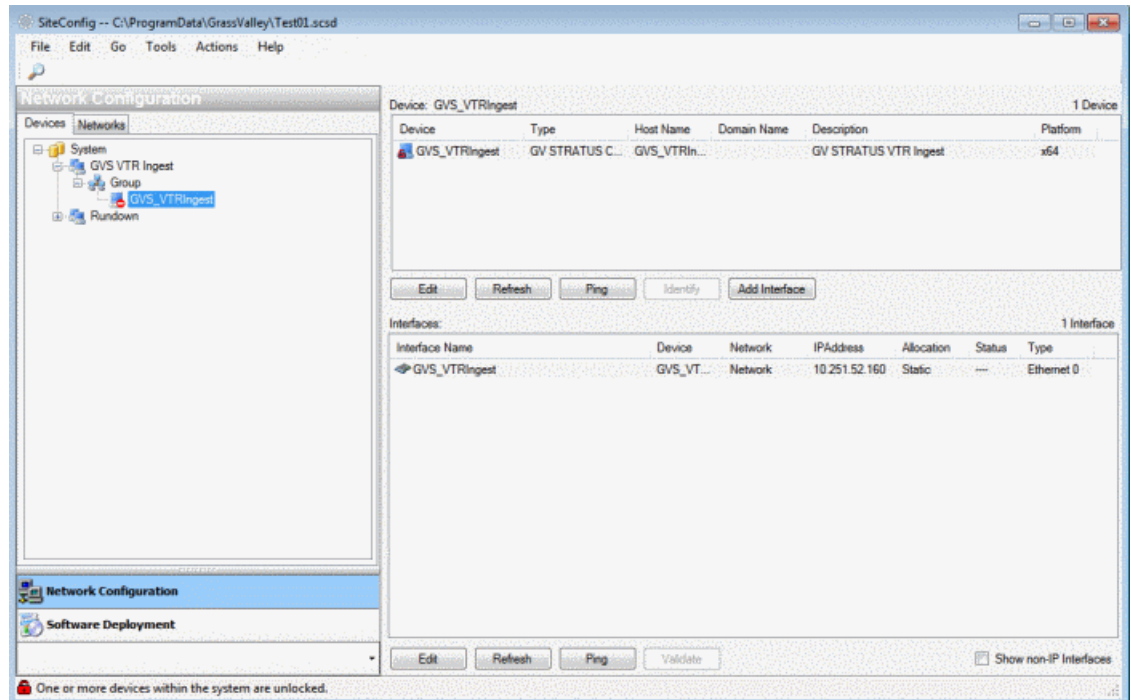
NOTE: Select x86 if the device has a 32 bit OS, x64 if it has a 64 bit OS.

- Control Network – Defaulted to Network.
- Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.



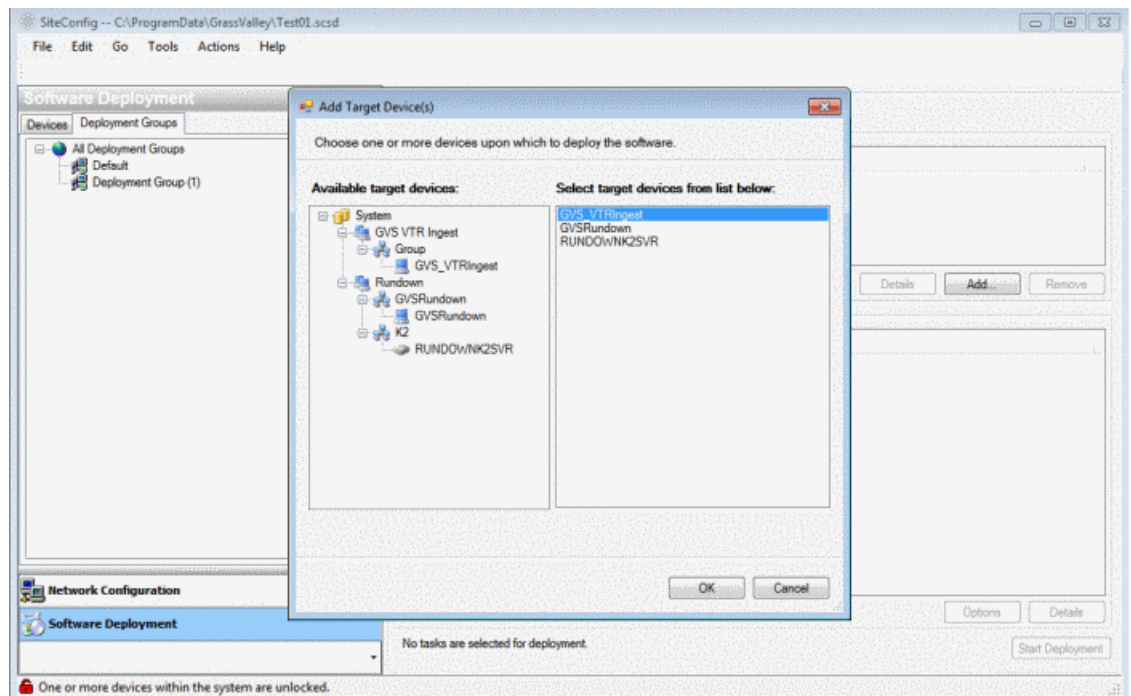
5. Click **OK** to save settings and close.

A new device GV STRATUS VTR Ingest is successfully added.



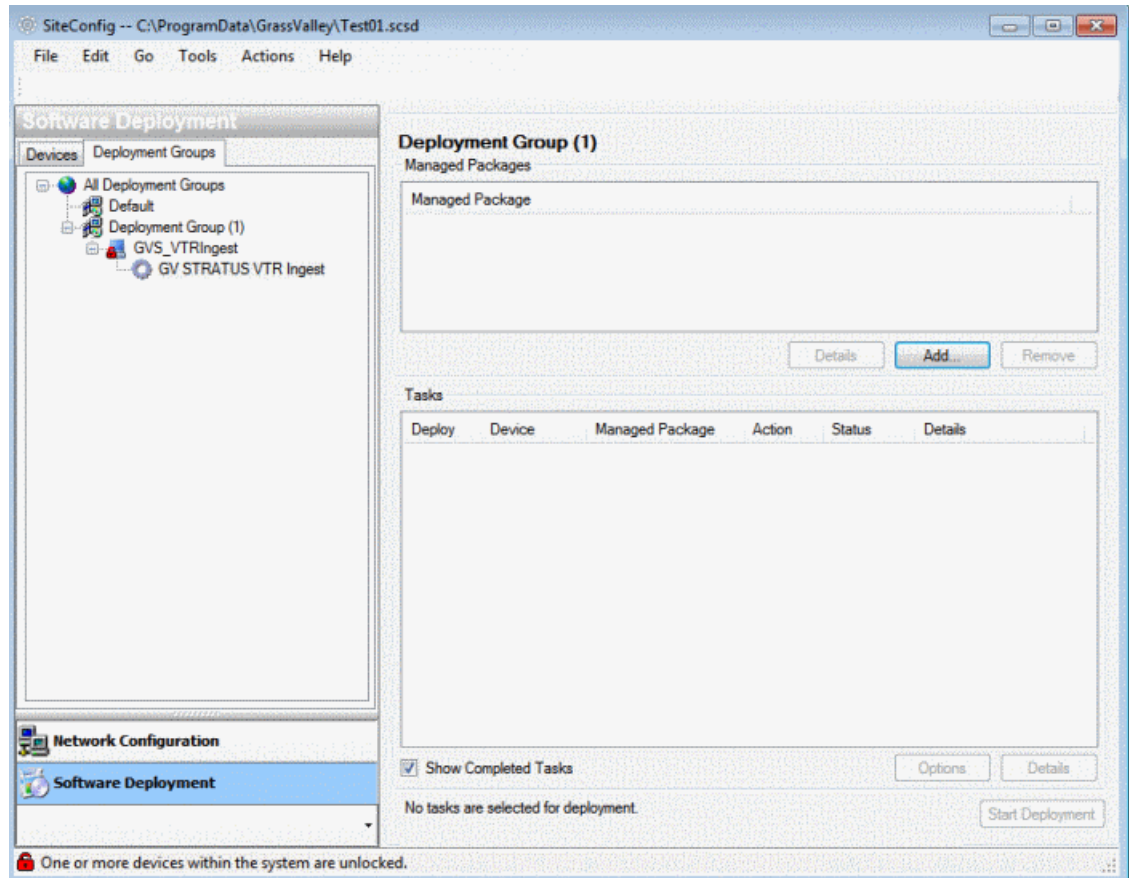
6. In the **Software Deployment | Deployment Groups | Deployment Group** list view, right-click and select **Add Target Device**.

The Add Target Device(s) wizard opens.



7. Click **OK**.

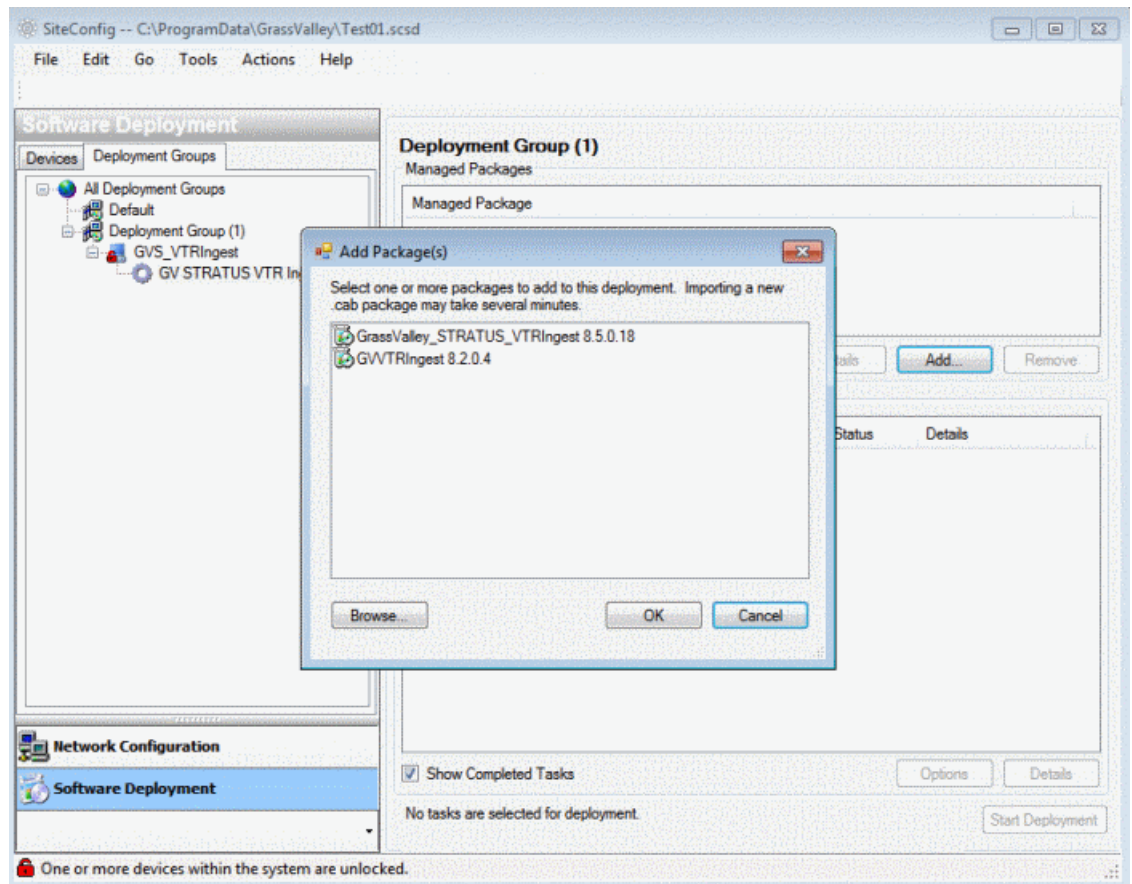
GV STRATUS VTR Ingest appears in the Deployment Groups tree view under the deployment group.



8. To add a software package to the deployment group, go to the **Software Deployment | Deployment Groups** tree view, select a deployment group.

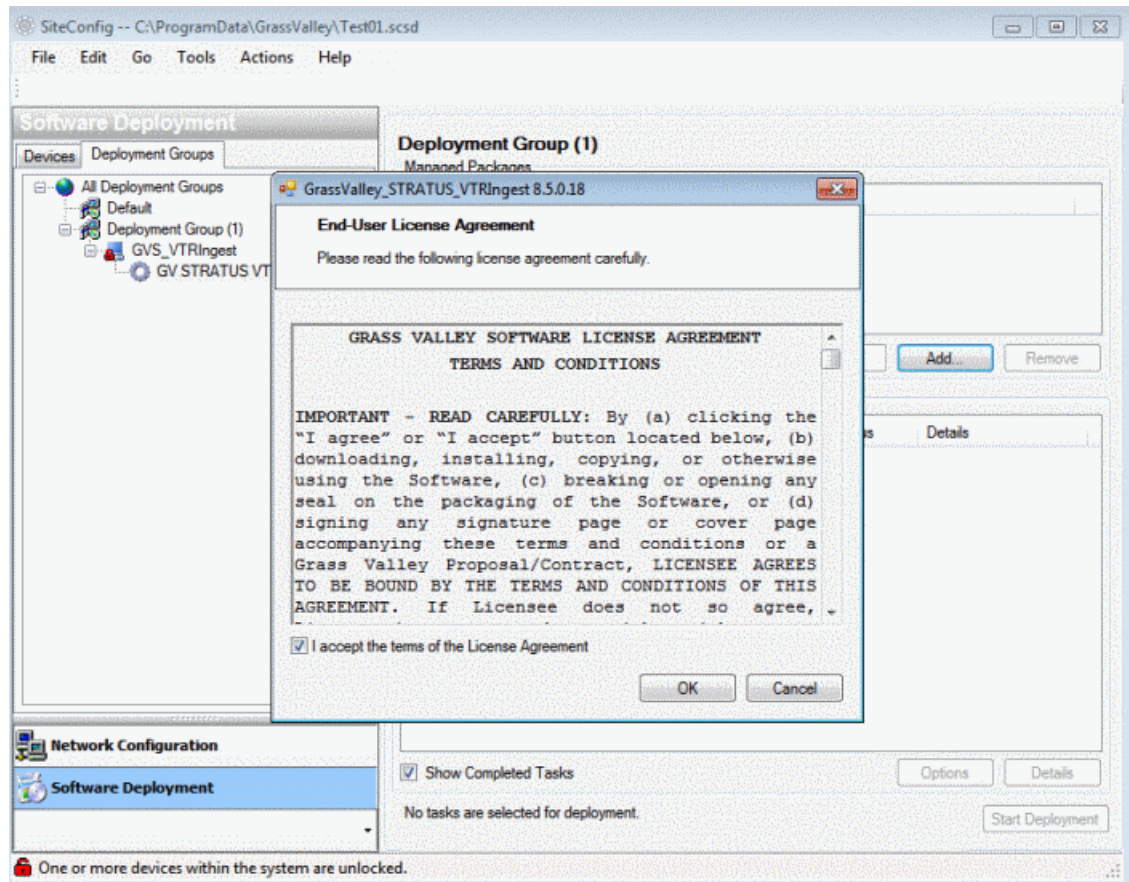
9. Click the **Add** button.

The Add Package(s) dialog box opens.



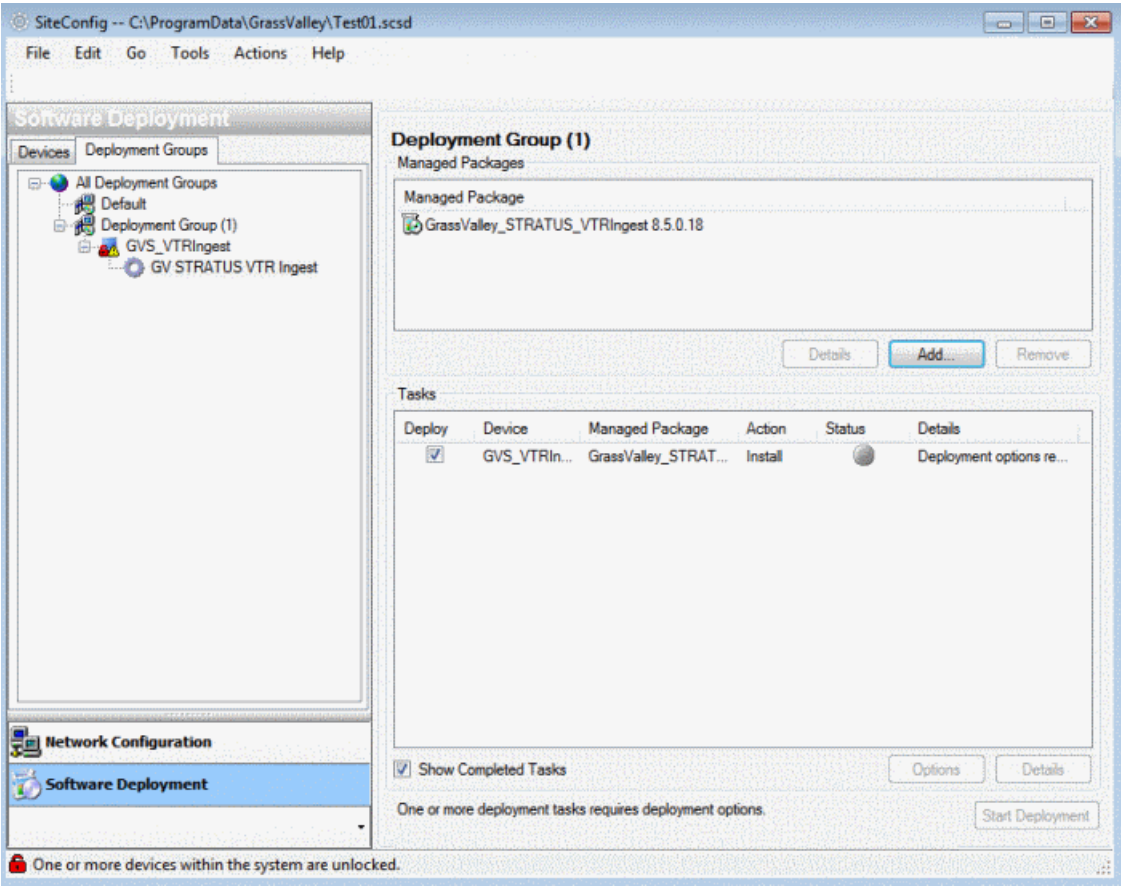
10. Select the GV STRATUS VTR Ingest package and click **OK**.

11. EULA is displayed as follows and accept them to proceed.



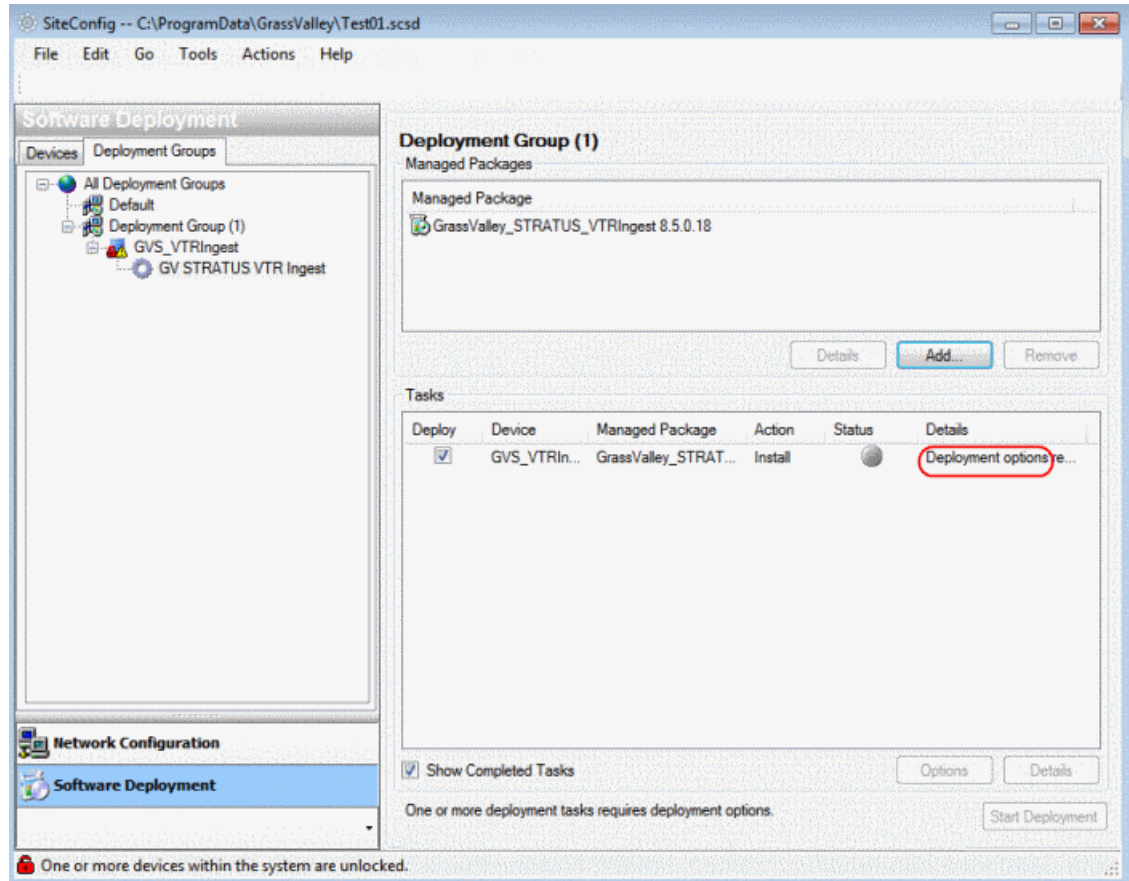
SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

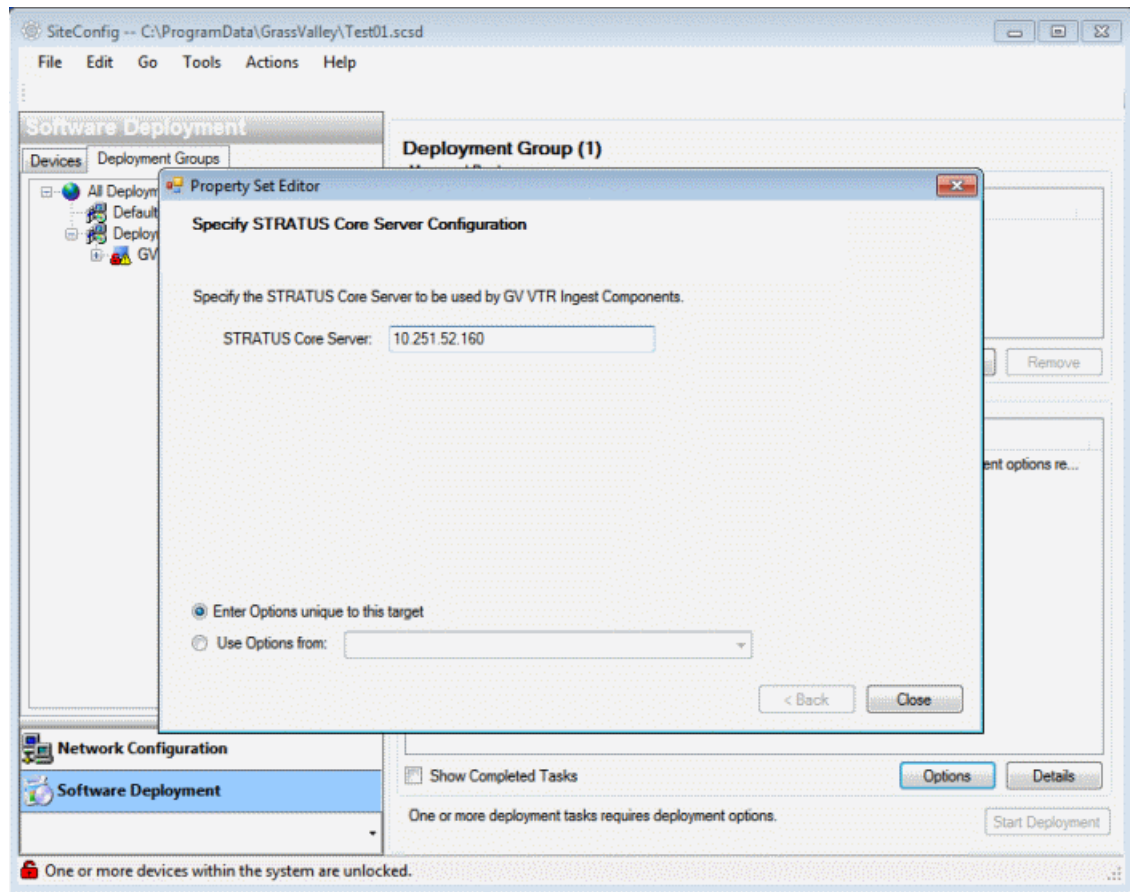


12. Do one of the following to set deployment options:

- Double-click the task.
- Select the task and click the **Options** button.



13. Work through the wizard to set options. In this example, the system is configured to connect to the GV STRATUS Core Server.



14. Click **Close** to save the deployment option.
15. Click **Start Deployment** to install GV STRATUS VTR Ingest.

Additional Topics

Refer to topics in this section as necessary as you work through upgrade processes.

Complete listing of device types, roles, and software packages for GV STRATUS devices

Software packages are SiteConfig *.cab files. You add packages to a SiteConfig deployment group in order to make the software available for deployment to the devices in the group. When a correctly added device has its SiteConfig roles assigned correctly, SiteConfig installs the appropriate package.

GV STRATUS Client PC low-resolution (proxy):

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - NOTE: Do not select the EDIUS family.**
 - Device Type: GV STRATUS Client
 - Model: GV STRATUS PC or GV STRATUS/EDIUS PC (if using EDIUS XS)
- SiteConfig roles:
 - GV STRATUS Application
 - EDIUS (Required for EDIUS XS)
- Software packages:
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS XS)

GV STRATUS Client PC high-resolution (iSCSI):

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - NOTE: Do not select the EDIUS family.**
 - Device Type: GV STRATUS Client
 - Model: GV STRATUS PC - SAN Client or GV STRATUS/EDIUS PC - SAN Client (if using EDIUS Workgroup)
- SiteConfig Roles:
 - GV STRATUS Application
 - StorNext File System Client
 - Generic iSCSI Client (non K2 only)
 - NOTE: First install StorNext File System Client, then install Generic iSCSI Client via SiteConfig for the following:**
 - **First installation of GV STRATUS application into a system.**
 - **When there is an upgrade of the StorNext File System Client.**
- EDIUS (Required for EDIUS Workgroup)

- Software packages:
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GenericISCSI_x64_x.x.x.cab*
 - *SNFS_nonK2_x64_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS Workgroup).

GV STRATUS Express server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Core Server Express

- SiteConfig Roles:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
 - *GrassValley_K2system_x.x.x.cab*.

GV STRATUS Core server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Core Server

- SiteConfig Roles:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
 - *GrassValley_K2system_x.x.x.cab*.

GV STRATUS Proxy server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Proxy Server

- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy K2 SAN Server
 - GV Log Manager
 - StorNext File System Client
- Software packages:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*.

GV STRATUS Proxy Storage file system server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Proxy Storage File System Server
- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy Storage Server
 - GV Log Manager
 - StorNext File System Server
 - StorNext File System Client

- Software packages:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*

The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
- *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*.

GV STRATUS Render Engine Server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Render Engine
- SiteConfig Roles:
 - GV STRATUS Control Panel
 - GV STRATUS Event Viewer
 - GV Log Manager
 - StorNext File System Client
 - GV Embedded Security Manager
 - GV STRATUS Render Engine

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GVEEmbeddedSecurityManager_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*

GV STRATUS Workflow Server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Workflow Server
- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Control Panel
 - GV Log Manager

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*.

GV STRATUS roles matrix

When you assign roles to users and groups, there can be additional rules, as specified in the following table. The table also gives an example of roles included in each license and if included, whether they are set to Allow (A) or Deny (D) by default. Your licenses, as procured from Grass Valley, might be different than this example.

	Elite	Pro	Flex	Express	News room Basic	Notes
Advanced Logging	A	A	No	No	No	—
Archive Rights	A	A	A	A	No	Enforced for Media Manager.
Assignment List	A	A	A	A	A	—
Auto Logout	A	A	A	A	A	Accounts not assigned this role are exempt from the auto logout process and the GV STRATUS application stays open indefinitely.
Bin Creation Rights	A	A	A	A	A	—
Change Thumbnail Rights	A	A	A	A	A	—
Channel Panel	A	A	No	No	No	—
Copy Metadata	A	A	A	A	A	—

Dashboard	D	D	D	D	No	—
Delete Rights	A	A	A	A	A	—
Edius Project Management	D	D	D	D	No	Displays EDIUS Projects node under Assets in the Navigator.
Edius XS	A	A	A	No	No	—
Export Rights	A	A	A	A	A	—
Media Manager	D	D	D	D	No	Only Media Manager allowed the following: <ul style="list-style-type: none"> • Move assets from archive to GV STRATUS system • Save public search • Access to Lost and Found folder • Extended delete type options • Create custom metadata for markers and keywords
Missing Material List	D	D	D	D	No	—
Move Rights	A	A	A	A	A	Applies to K2 storage locations and to logical Asset Groups.
Multisite Access	A	A	A	A	No	—
Playlist Editor	A	A	No	No	No	—
Queue Management	A	A	A	A	No	Allows prioritization of jobs in Monitors Jobs list.
Rename Bins Rights	A	A	A	A	A	Applies to K2 storage locations.
Restore Rights	A	A	A	A	No	Enforced for Media Manager.
RMI	A	A	No	No	No	—
Schedule Monitor	A	A	A	A	No	—
Scheduled Transfer	D	No	No	No	No	—
Scheduler	A	No	No	No	No	—
Scheduler (Read Only)	D	A	A	A	No	—

Security Manager	D	D	D	D	No	—
Segmentation	A	A	A	A	No	—
Send Message	A	A	A	A	No	—
Source Viewer	A	A	A	A	No	—
Storyboard Editor	A	A	A	A	No	—
Trim Rights	A	A	A	A	A	—
Web Monitor	A	A	A	A	No	—

Key: A=Included in license and set to Allow by default; D=Included in license and set to Deny by default; No=Not included in license.

Related Topics

[If you have trouble launching EDIUS XS](#) on page 124

About Auto Logout

The purpose of the Auto Logout role is to release the GV STRATUS license that is assigned to a system that has been idle for a long period of time. This returns the license to the pool of available licenses and makes it available for use by another GV STRATUS application.

In GV STRATUS Control Panel, the Auto Logout role can be assigned to groups and users. When a user account with this role is logged on to the GV STRATUS application, the GV STRATUS system monitors the host PC for activity and triggers the auto logout process if appropriate. This process is configured in Auto Logout settings.

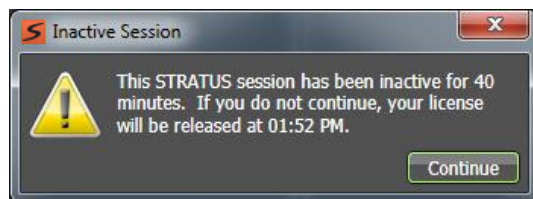
To locate these settings, click **General | License Management | Auto Logout**

The following setting specifies the timing of the auto logout process:

Setting or button	Description
STRATUS Application Timeout	The length of time the PC that hosts the GV STRATUS application must sit idle, with no activity, before that PC's GV STRATUS license is released.

The auto logout process occurs as follows:

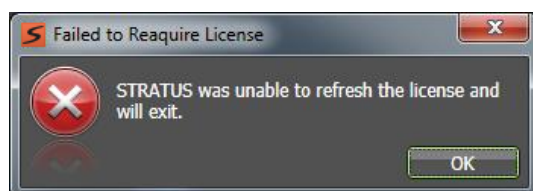
1. Five minutes before the timeout, a dialog box opens with a message specifying the time the license is to be released.



2. If a user clicks **Continue** within five minutes, the auto logout process is discontinued and the timeout is reset.
3. If there is no interaction with the message dialog box within five minutes, the dialog box closes and another dialog box opens. This second dialog box displays a message that the license is released and provides options to log off the GV STRATUS application or to refresh the license.



4. The license used currently by the GV STRATUS application is returned to the pool of available licenses. Until an option is selected, the GV STRATUS application and the dialog box remain open. The GV STRATUS application is unusable, but current work is retained.
5. When the option to refresh the license is selected, if a license is available, the GV STRATUS application is licensed and becomes usable. If a license is not available, a dialog box opens with a message about the license. Clicking **OK** logs out and closes the GV STRATUS application.



Related Topics

[Auto Logout settings](#) on page 305

Summary of previous GV STRATUS upgrades

Previous upgrades are summarized in the following topics. To upgrade to a previous version, refer to the upgrade instructions for the specific version. Do not attempt a previous upgrade based on the information in these topics alone.

Summary of upgrade from version 1 to version 2

Several STRATUS servers are affected by the version 1 to version 2 upgrade, as follows:

- **Core/Common server** — In version 1, the STRATUS server provided licensing and user preference functionality, and was referred to as a "Common" server. In version 2 the server additionally provides extended media management functionality, including the STRATUS database and associated software components. The version 2 server is referred to as a "Core" server. The added functionality in version 2 requires that the server be removed and then reconfigured in the STRATUS system.
- **Proxy Encoder** — A STRATUS server that creates low resolution proxy assets. If a high resolution asset does not yet have associated proxy, the Proxy Encoder creates it. The Proxy Encoder software that provides this functionality can run on a dedicated Proxy Encoder server or on a STRATUS server that has other roles as well, such as a STRATUS Express server. The Proxy Encoder is a new type of STRATUS server for version 2.
- **Express server** — Similar to Core/Common server, the version 2 Express server provides extended media management functionality. If the STRATUS system does not have a Proxy Encoder, the Express server can also provide functionality similar to the Proxy Encoder. The added functionality in version 2 requires that the server be removed and then reconfigured in the STRATUS system.

Several upgrade tasks are specific to the version 1 to version 2 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- **Express system** — Remove the Express server from SiteConfig and then add it back to SiteConfig, in order to reconfigure roles appropriate for version 2 functionality. If your system does not include a Proxy Encoder, make sure Express server roles support proxy encoding. If your system includes a Proxy Encoder, add it to your system.
- **A1, B1 systems** — Remove the Common/Core server from SiteConfig and then add it back to SiteConfig, in order to reconfigure roles appropriate for version 2 functionality. Also add one or more Proxy Encoders to your system.

Summary of upgrade from version 1 to version 2.5

GV STRATUS servers are affected by the version 1 to version 2.5 upgrade, as follows:

- **Core/Common server** — In version 1, the GV STRATUS server provided licensing and user preference functionality, and was referred to as a "Common" server. In version 2.0 and higher the server additionally provides extended media management functionality, including the GV STRATUS database and associated software components. The version 2.0 and higher server is referred to as a "Core" server. The added functionality requires that the server be removed and then reconfigured in the GV STRATUS system.
- **Proxy Encoder** — A GV STRATUS server that creates low resolution proxy assets. If a high resolution asset does not yet have associated proxy, the Proxy Encoder creates it. The Proxy Encoder software that provides this functionality can run on a dedicated Proxy Encoder server or on a GV STRATUS server that has other roles as well, such as a GV STRATUS Express server. The Proxy Encoder is a new type of GV STRATUS server for version 2.0 and higher.
- **Conform Server** — A GV STRATUS server dedicated to hosting the Conform Engine Service. This service renders a complex asset, such as a sequence, into a clip that can be played on a K2/Summit system. The Conform Server is a new type of GV STRATUS server for version 2.5.

- Express server — Similar to Core/Common server, the version 2.0 and higher Express server provides extended media management functionality. If the GV STRATUS system does not have a Proxy Encoder, the Express server can also provide functionality similar to that server. The added functionality requires that the server be removed and then reconfigured in the GV STRATUS system.

Several upgrade tasks are specific to the version 1 to version 2.5 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- Express system:
 - Remove the Express server from SiteConfig and then add it back to SiteConfig, in order to reconfigure roles appropriate for new functionality.
 - If your Express system does not include a dedicated Proxy Encoder, make sure Express server roles support that functionality. If your system includes dedicated Proxy Encoders, add the Proxy Encoder servers to your system.
 - If your system includes dedicated Conform Servers, add the Conform Servers to your system.
 - If your Express system includes an archive system, configure SiteConfig roles, install software and licenses and configure as appropriate for your archive system.
- A1, B1 systems:
 - Remove the Common/Core server from SiteConfig and then add it back to SiteConfig, in order to reconfigure roles appropriate for new functionality.
 - Add one or more Proxy Encoders to your system.
 - Add one or more Conform Servers to your system.
 - If your A1/B1 system includes an archive system, configure SiteConfig roles, install software and licenses and configure as appropriate for your archive system.

Summary of upgrade from version 2.0 to version 2.5

GV STRATUS servers are affected by the version 2 to version 2.5 upgrade, as follows:

- Conform Server — A GV STRATUS server dedicated to hosting the Conform Engine Service. This service renders a complex asset, such as a GV STRATUS sequence, into a simple clip. The Conform Server is a new type of GV STRATUS server for version 2.5.

Several upgrade tasks are specific to the version 2 to version 2.5 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- Express system:
 - If your system includes dedicated Conform Servers, add the Conform Servers to your system.
 - If your Express system includes an archive system, configure SiteConfig roles, install software and licenses and configure as appropriate for your archive system.
- A1, B1 systems:
 - Add one or more Conform Servers to your system.
 - If your A1/B1 system includes an archive system, configure SiteConfig roles, install software and licenses and configure as appropriate for your archive system.

Summary of upgrade from version 2.5 to version 2.7

GV STRATUS servers are affected by the version 2.5 to version 2.7 upgrade, as follows:

- EDIUS XRE Server — A server dedicated to hosting EDIUS XRE Management Server/XRE Node and XRE Monitor (management node) software. This software performs a rendering process when exporting a project created in EDIUS. The EDIUS XRE Server is a new type of GV STRATUS server for version 2.7.

Several upgrade tasks are specific to the version 2.5 to version 2.7 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - The following items are lost when upgrading, so before you upgrade make a record of your settings with version 2.5 so that you can reconfigure after upgrading to version 2.7:
 - Authorization Manager settings, including all assignments of license and roles to groups and users.
 - Favorites
 - Saved searches
 - Rules: After the upgrade you can configure export and delete rules.
 - Delete Rights: After the upgrade you can deny delete rights to groups and users.
 - EDIUS XS: After the upgrade you can install the EDIUS application on your STRATUS Client PCs. Requires EDIUS license.
- A1, B1 systems:
 - Add one or more EDIUS XRE Servers to your system.

Summary of upgrade from version 2.5 to version 2.7.5

GV STRATUS servers are affected by the version 2.5 to version 2.7 upgrade, as follows:

- EDIUS XRE Server — A server dedicated to hosting EDIUS XRE Management Server/XRE Node and XRE Monitor (management node) software. This software performs a rendering process when exporting a project created in EDIUS. The EDIUS XRE Server is a new type of GV STRATUS server for version 2.7.

Several upgrade tasks are specific to the version 2.5 to version 2.7 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - The following items are lost when upgrading, so before you upgrade make a record of your settings with version 2.5 so that you can reconfigure after upgrading to version 2.7:
 - Authorization Manager settings, including all assignments of license and roles to groups and users.
 - Favorites
 - Saved searches
 - Rules: After the upgrade you can configure export and delete rules.
 - Delete Rights: After the upgrade you can deny delete rights to groups and users.
 - EDIUS XS: After the upgrade you can install the EDIUS application on your STRATUS Client PCs. Requires EDIUS license.
- A1, B1 systems:
 - Add one or more EDIUS XRE Servers to your system.

Summary of upgrade from version 2.5 to version 2.8

GV STRATUS servers are affected by the version 2.5 to version 2.8 upgrade, as follows:

- EDIUS XRE Server — A server dedicated to hosting EDIUS XRE Management Server/XRE Node and XRE Monitor (management node) software. This software performs a rendering process when exporting a project created in EDIUS. The EDIUS XRE Server is a new type of GV STRATUS server for version 2.7.
- Workflow Server — A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations. The Workflow Server is a new type of GV STRATUS server for version 2.8.

Several upgrade tasks are specific to the version 2.5 to version 2.8 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - The following items are lost when upgrading. For settings you want to save, make a record of your settings with version 2.5 so that you can reconfigure after upgrading to version 2.8:
 - Authorization Manager settings, including all assignments of license and roles to groups and users.
 - Favorites
 - Saved searches
 - Rules: After the upgrade you can configure export, transfer, and delete rules.
 - Delete Rights: After the upgrade you can deny delete rights to groups and users.
 - EDIUS XS: After the upgrade you can install the EDIUS application on your GV STRATUS Client PCs. Requires EDIUS license.
 - EDIUS Elite: If you have existing high-resolution (iSCSI SAN-attached) client PCs with EDIUS Elite installed, you must manually uninstall EDIUS and supporting software before upgrading.
 - Segmentation: After the upgrade, you can configure and use Segmentation features if desired.
- A1, B1, C1 systems:
 - Add one or more EDIUS XRE Servers to your system.
 - Add one or more Workflow Servers to your system.

Summary of upgrade from version 2.7 to version 2.8

GV STRATUS servers are affected by the version 2.7 to version 2.8 upgrade, as follows:

- Workflow Server — A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations. The Workflow Server is a new type of GV STRATUS server for version 2.8.

Several upgrade tasks are specific to the version 2.7 to version 2.8 upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - Rules: If you configured export and delete rules before the upgrade, after the upgrade you can additionally configure transfer rules. If you license your GV STRATUS system and install the Harmonic ProMedia™ Carbon (formerly Carbon Coder™) application, you can also configure an export rule with transcode functionality.

- A1, B1, C1 systems:

- Add one or more Workflow Servers to your system.

If you currently have the GV STRATUS Rules Engine and the GV STRATUS Workflow Engine installed on your Core Server and you are adding a Workflow server, you must do the following:

- Uninstall the GV STRATUS Rules Engine and the GV STRATUS Workflow Engine from the Core Server.
- Reconfigure your rules on the Workflow Server

Summary of upgrade from version 2.8 to version 3.1

Several upgrade tasks are new or require special consideration with the upgrade from version 2.8 to version 3.1. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - Windows update: KB2859537 and KB2872339 not supported on Grass Valley devices.
 - .NET upgrade: All GV STRATUS servers (including EDIUS XRE) and all client PCs hosting a GV STRATUS application and/or an EDIUS application must upgrade to .NET 4.5, if that version of .NET is not already installed.
 - Services: In SiteConfig, for your GV STRATUS Express server or GV STRATUS Core server add roles to install GV STRATUS Data Mover Engine.
 - GV Event Viewer: In SiteConfig, for all STRATUS servers, add a role to install GV Event Viewer.
 - HTTP server: After the upgrade, in GV STRATUS Control Panel, configure settings for HTTP server and CIFS server.
 - Trim Rights: After the upgrade, in GV STRATUS Control Panel, assign the "Trim Rights" role to users and groups.
 - Rules: After the upgrade you can additionally configure archive rules and transfer rules. If you license your GV STRATUS system to work with your transcoding application, you can also configure an export rule with transcode functionality.
 - Licenses: The following optional licenses are available with this release.
 - STRATUS-XCODECONTROLVANTAGE (Optional): If you license your GV STRATUS system and install the Telestream Vantage™ application, you can configure an export rule with Vantage transcode functionality.
 - STRATUS-MULTISITE (Optional): If you have multiple sites with GV STRATUS systems, you can license one or more systems and configure them to access assets on remote sites.
 - Search index: After the upgrade, the GV STRATUS database is automatically indexed to support enhanced search features. This can take several hours, depending on the size of your GV STRATUS database. During this time Search features and Rules features are not fully functional. In GV STRATUS Control Panel, click **Core | Search Index Config** to view indexing progress.

- Systems using Segmentation features:
 - Services: In SiteConfig, for your GV STRATUS Express server or GV STRATUS Core server add roles to install GV STRATUS Traffic Gateway.
- Systems with high-resolution client PCs, such as those using the RMI tool or a high-resolution editor:
 - After the upgrade, in GV STRATUS Control Panel Proxy Access settings, add GV STRATUS client PCs and set them to high resolution.
- Systems with EDIUS:
 - Upgrade sequence: On GV STRATUS/EDIUS client PCs and EDIUS XRE Server you must uninstall/install in the following order:
 1. Uninstall EDIUS/XRE and GVG_Mlib.
 2. Restart.
 3. Uninstall the GV STRATUS Application.
 4. Install the GV STRATUS Application.
 5. Restart.
 6. Install EDIUS/XRE.
 7. Restart.

The GVG_Mlib uninstall is required because it is no longer installed separately for EDIUS XS version 7 and EDIUS XRE Server version 7.
 - XRE Server settings: After upgrade, verify and, if necessary, reconfigure XRE Server settings.
 - License: You must re-license to support EDIUS 7.
- Systems using Adobe Premiere:
 - After the upgrade, you can install the GV STRATUS plug-in for Adobe Premiere if desired. To do so, follow installation instructions in this Topic Library.

Summary of upgrade from version 3.0 to version 3.1

Several upgrade tasks are new or require special consideration with the upgrade from version 3.0 to version 3.1. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - Windows update: KB2859537 and KB2872339 not supported on Grass Valley devices.
 - .NET upgrade: All GV STRATUS servers (including EDIUS XRE) and all client PCs hosting a GV STRATUS application and/or an EDIUS application must upgrade to .NET 4.5, if that version of .NET is not already installed.
- Systems with high-resolution client PCs, such as those using the RMI tool or a high-resolution editor:
 - After the upgrade, in GV STRATUS Control Panel Proxy Access settings, add GV STRATUS client PCs and set them to high resolution.

- Systems using Adobe Premiere:
 - After the upgrade, you can install the GV STRATUS plug-in for Adobe Premiere if desired. To do so, follow installation instructions in this Topic Library.

Summary of upgrade from version 3.0 or 3.1 to version 3.5

Several upgrade tasks are new or require special consideration with the upgrade from version 3.0 or 3.1 to version 3.5. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - Move Rights, Rename Bins Rights, Queue Management, Auto Logout: After the upgrade, existing users and groups do not have these roles assigned, so you must assign the roles if appropriate. If you create new users and groups, these roles are assigned by default, so you must remove the roles if appropriate.
 - Auto Logout settings: If assigning the Auto Logout role to users/groups, configure the desired application timeout.
 - Rules: After the upgrade you can additionally configure rule-based import of content and metadata.
 - .NET upgrade: All K2 Summit systems, GV STRATUS servers, and all client PCs hosting a GV STRATUS application and/or an EDIUS application must upgrade to .NET 4.5, if that version of .NET is not already installed.
 - Embedded Security: You must do a one-time initial deployment process on all GV STRATUS and K2 systems that run Embedded Security. Refer to the task [Deploy Embedded Security solution - One-time process](#). This task isolates the steps required for the one-time process. If you have sufficient knowledge of systems and upgrades, you can modify your software upgrade steps as necessary to do the one-time process at the same time as your other software upgrades, rather than as isolated steps. After the one-time process is complete, it is not necessary to put Embedded Security in Update Mode when installing software.

NOTE: *A re-image of the computer might be necessary if the Embedded Security one-time process is done incorrectly. Follow instructions carefully.*

NOTE: *After this process is complete, Embedded Security must remain in Enabled Mode for normal operation and during software upgrade/install. Do not put Embedded Security in Update Mode.*

Also, Windows updates KB2859537 and KB2872339 can be installed.

- Internal system account: If the internal system account for your GV STRATUS system is on a fully qualified domain or is not the default GVAdmin account, configure settings at GV STRATUS Control Panel **Core | STRATUS Core Services | Primary Site** as appropriate for your system.

- Systems with Conform Server and/or XRE Server:
 - Both Conform Server and XRE Server functionality is combined into the GV STRATUS Render Engine. Conform Server and XRE Server are no longer supported on the GV STRATUS system. You must convert all Conform Servers and XRE Servers to Render Engine servers. The required steps for this conversion are integrated in the main upgrade process and in the section [*Install Render Engine server software and upgrade EDIUS client software*](#) on page 107.
- Systems with Aurora Payout:
 - Aurora Payout is now GV STRATUS Rundown. Aurora Payout is no longer supported on the GV STRATUS system. You must convert all Aurora Payout devices and components to GV STRATUS Rundown.

Summary of upgrade from version 3.1 to version 4.0

Several upgrade tasks are new or require special consideration with the upgrade from version 3.1 or 3.5 to version 4.0. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - GV STRATUS software installation automatically creates and installs a security certificate on the GV STRATUS Core server. No manual steps are required.
 - Schedule Monitor, Security Manager, Move Rights, Rename Bins Rights, Queue Management, Auto Logout: After the upgrade, existing users and groups do not have these roles assigned, so you must assign the roles if appropriate. If you create new users and groups, some roles are assigned by default, so you must remove those roles if appropriate.
 - Auto Logout settings: If assigning the Auto Logout role to users/groups, configure the desired application timeout.
 - Rules: After the upgrade you can additionally configure rule-based import of content and metadata.
 - .NET upgrade: All K2 Summit systems, GV STRATUS servers, and all client PCs hosting a GV STRATUS application and/or an EDIUS application must upgrade to .NET 4.5, if that version of .NET is not already installed.
 - Embedded Security: You must do a one-time initial deployment process on all GV STRATUS and K2 systems that run Embedded Security. Refer to the task [Deploy Embedded Security solution - One-time process](#). This task isolates the steps required for the one-time process. If you have sufficient knowledge of systems and upgrades, you can modify your software upgrade steps as necessary to do the one-time process at the same time as your other software upgrades, rather than as isolated steps. After the one-time process is complete, it is not necessary to put Embedded Security in Update Mode when installing software.

NOTE: *A re-image of the computer might be necessary if the Embedded Security one-time process is done incorrectly. Follow instructions carefully.*

NOTE: *After this process is complete, Embedded Security must remain in Enabled Mode for normal operation and during software upgrade/install. Do not put Embedded Security in Update Mode.*

Also, Windows updates KB2859537 and KB2872339 can be installed.

- Internal system account: If the internal system account for your GV STRATUS system is on a fully qualified domain or is not the default GVAdmin account, configure settings at GV STRATUS Control Panel **Core | STRATUS Core Services | Primary Site** as appropriate for your system.
- Systems with Remote Site configured:
 - Verify and configure Remote Site settings. GV STRATUS security requires re-entering existing information and configuring new settings.
- Systems with EDIUS and GV Render Engine server:
 - Requires the installation of Windows High Priority updates. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.
 - When using SiteConfig to install the GV Render Engine cab, the server might reboot and gives a false indication that the cab installs.

- Systems with Conform Server and/or XRE Server:
 - Both Conform Server and XRE Server functionality is combined into the GV STRATUS Render Engine. Conform Server and XRE Server are no longer supported on the GV STRATUS system. You must convert all Conform Servers and XRE Servers to Render Engine servers. The required steps for this conversion are integrated in the main upgrade process and in the section [Install Render Engine server software and upgrade EDIUS client software](#) on page 107.
- Systems with MEWS Server:
 - Set up the MEWS Server in SiteConfig and deploy the MEWS Service software.
- Systems with Aurora Payout:
 - Aurora Payout is now GV STRATUS Rundown. Aurora Payout is no longer supported on the GV STRATUS system. You must convert all Aurora Payout devices and components to GV STRATUS Rundown.
 - To enable automatic transfer of assets into a playout server, configure the Summit MDI in GV STRATUS Control Panel for the K2 system that is a playout server.
- Systems with DIVA archive:
 - If upgrading to DIVA version 7.2, update DIVA MDI configuration.

Summary of upgrade from version 3.5 to version 4.0

Several upgrade tasks are new or require special consideration with this upgrade. Apply upgrade tasks as appropriate for your system design, as follows:

- All systems:
 - GV STRATUS software installation automatically creates and installs a security certificate on the GV STRATUS Core server. No manual steps are required.
 - Schedule Monitor, Security Manager: After the upgrade, existing users and groups do not have these roles assigned, so you must assign the roles if appropriate. If you create new users and groups, some roles are assigned by default, so you must remove those roles if appropriate.
 - Require the upgrade of SNFS (StoreNext File System) version 4.7.2 if you are upgrading to K2 9.5 system. For more details, refer to the "Upgrading K2 systems" section of the K2 Topic Library.
- Systems with EDIUS and GV Render Engine server:
 - Require the installation of Windows High Priority updates. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.
- Systems with Remote Site configured:
 - Verify and configure Remote Site settings. GV STRATUS security requires re-entering existing information and configuring new settings.

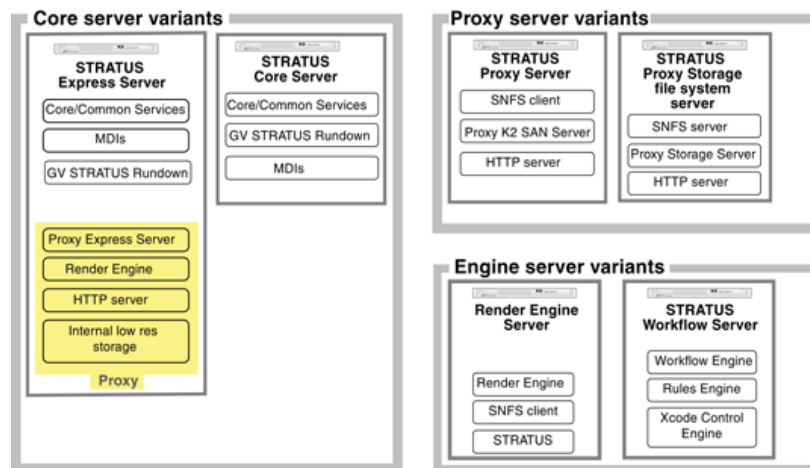
- Systems with MEWS Server:
 - Set up the MEWS Server in SiteConfig and deploy the MEWS Service software.
- Systems with GV STRATUS Rundown:
 - To enable automatic transfer of assets into a playout server, configure the Summit MDI in GV STRATUS Control Panel for the K2 system that is a playout server.
- Systems with DIVA archive:
 - If upgrading to DIVA version 7.2, update DIVA MDI configuration.
- Systems with routers using SMS7000 protocol:
 - Verify that router source and destination IDs do not include invalid characters. For more details, refer to *Characters not allowed in router source and destination IDs* on page 485.
- Systems with Ingest database:
 - Disable the **Auto Close** feature on Ingest database to prevent inaccessibility problems. For more details, refer to *Disabling the Auto Close feature in Ingest Database* on page 74.

GV STRATUS Installation and Service

Overview of the GV STRATUS System

GV STRATUS system and server variants

The GV STRATUS server is the primary device that supports GV STRATUS system functionality. These servers can be configured in a variety of ways to support the workflow requirements of specific GV STRATUS systems. This topic describes some of the server variants for typical GV STRATUS systems, as an aid to understanding the scope of GV STRATUS systems in general. Other system configurations can require server variants not described here. Those other variants are available if needed to meet unique workflow requirements. Consult with your Grass Valley representative to determine your needs.



Variants of the GV STRATUS server include the following:

- **GV STRATUS Express server** — A GV STRATUS server with all the roles necessary for a basic GV STRATUS system, including the role of Proxy Express Server. The server has larger drives than other GV STRATUS servers to accommodate the low-resolution proxy media that is stored on the local server. This server is designed for use on smaller GV STRATUS systems where no other GV STRATUS servers or proxy systems are present.
- **GV STRATUS Core server** — A GV STRATUS server that has the role of Core Services on a system with multiple GV STRATUS servers. The server provides media management functionality, including the GV STRATUS database and associated software components.
- **Proxy server** — The GV STRATUS server on an online or production K2 SAN that provides access to the low-resolution proxy media stored on the SAN. The server has the role of Proxy K2 SAN Server and SNFS file system client.
- **Proxy Storage file system server** — The GV STRATUS server on a dedicated Proxy Storage system that provides access to the low-resolution proxy media stored on the system. The server has the roles of Proxy Storage Server and SNFS file system server for the Proxy Storage system.

- **Render Engine** — A GV STRATUS server that functions as a proxy encoder and as a conform server. As a proxy encoder, the server creates low-resolution proxy assets. If a high-resolution asset does not yet have associated proxy, the server creates it. The software that provides the proxy encoder functionality can run on a dedicated Render Engine server or on a GV STRATUS server that has other roles as well, such as a GV STRATUS Express server. As a conform server, the server hosts the Render Engine Service. The service renders a complex asset, such as a GV STRATUS sequence or a project created in EDIUS, into a simple clip.
- **Workflow Server** — A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations.

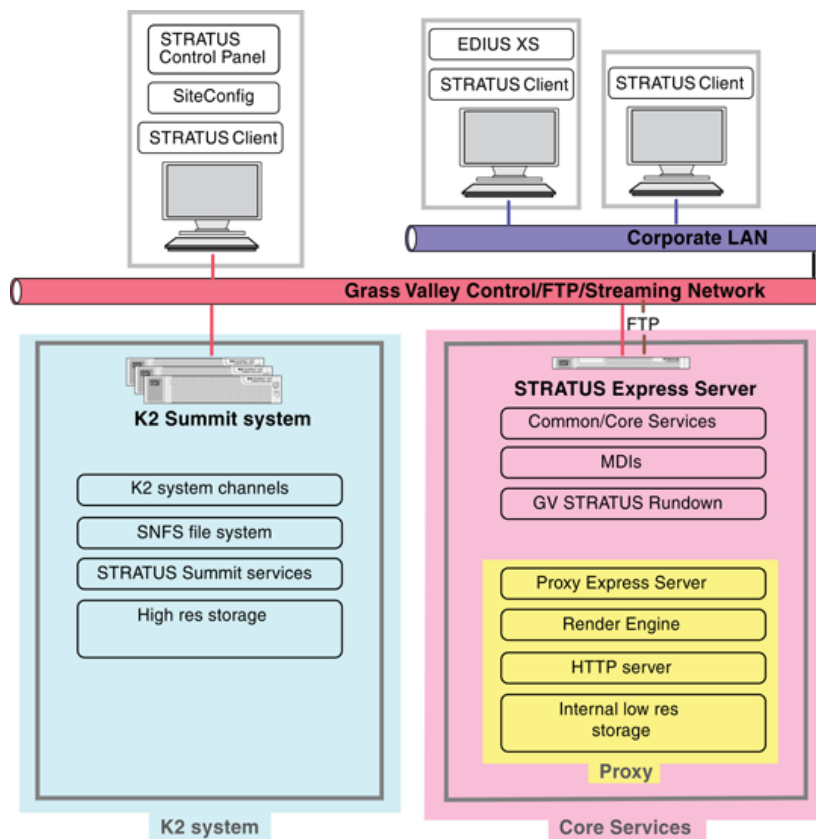
Related Topics

[GV STRATUS system and server variants](#) on page 174

[GV STRATUS server](#) on page 181

[GV STRATUS server partitions](#) on page 453

Small (Express) system description: Proxy on Core Services server



A small (Express) GV STRATUS system is characterized by proxy stored on a GV STRATUS Express server, which is a GV STRATUS server with all roles, including the roles of Proxy Server and Render Engine. Consult with Grass Valley for alternate configurations, such as the Render

Engine on a dedicated server, as appropriate for your workflow. The GV STRATUS Express server has internal storage with expanded capacity to store proxy media. The server provides an HTTP server that GV STRATUS client PCs access for proxy. A CIFS share is also required to which servers such as K2 systems and Render Engines write proxy.

This small GV STRATUS system is designed for a basic workflow and consists of K2 Summit systems, a GV STRATUS Express server, and one or more GV STRATUS client PCs. The K2 Summit systems can be one or several standalone systems, a K2 SAN, or a combination of a SAN and standalone systems. Client PCs use a proxy media workflow and are connected to the Corporate LAN or to the control network. At least one PC must host the GV STRATUS Control Panel application. A designated PC on the control network hosts the SiteConfig application.

In addition to its role of Proxy Server, the GV STRATUS Express server hosts components that provide the underlying functionality to the overall GV STRATUS system. These components provide media management, license manager, and user preference functionality.

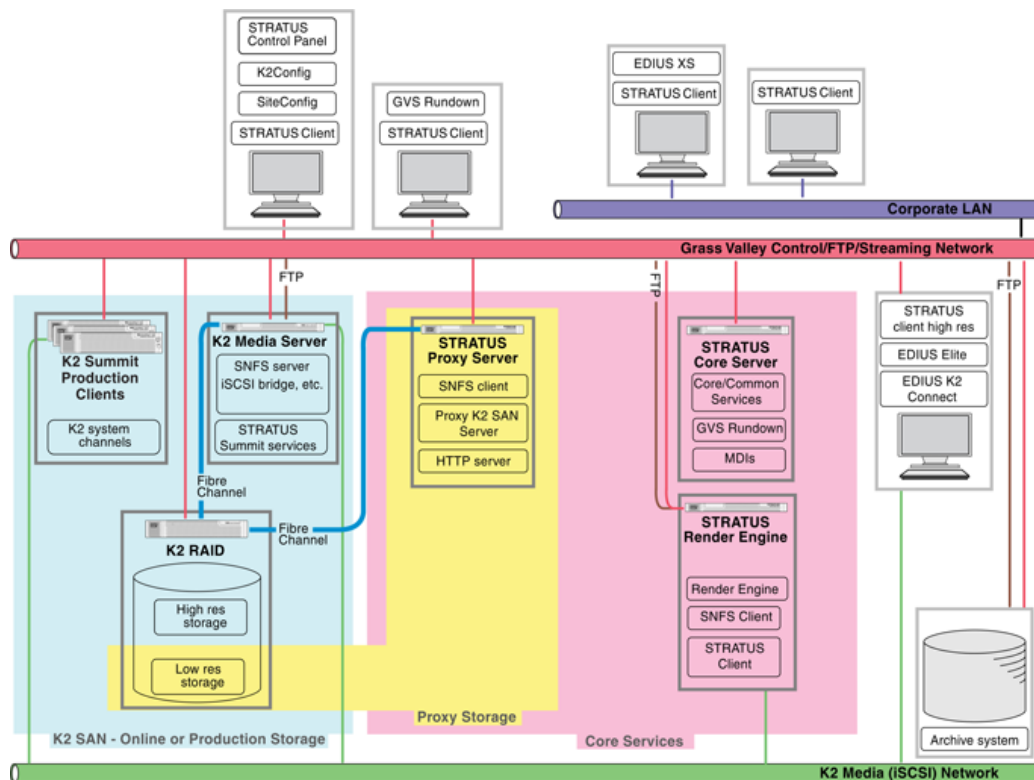
Related Topics

[About roles](#) on page 374

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[CIFS storage configuration](#) on page 737

Medium (A1) system description: Proxy on K2 Summit SAN



A medium (A1) GV STRATUS system is characterized by proxy stored on the online or production K2 Summit SAN. Attached to the K2 SAN is a Proxy server, which is a GV STRATUS server with role of Proxy K2 SAN Server. This Proxy server provides access to the low resolution proxy media stored on the K2 SAN. The server provides an HTTP server that GV STRATUS client PCs access for proxy. A CIFS share is also required to which servers such as K2 systems and Render Engines write proxy.

This medium GV STRATUS system is designed for a typical workflow and consists of a K2 Summit online or production SAN, multiple GV STRATUS servers, and multiple GV STRATUS client PCs. Client PCs that use a proxy media workflow are connected to the Corporate LAN or to the control network. Client PCs that use a high resolution media workflow are connected to the media (iSCSI) network. At least one PC must host the GV STRATUS Control Panel application. A designated PC on the control network hosts the SiteConfig application and the K2Config application. GV STRATUS Control Panel, SiteConfig, and K2Config applications can all be on the same PC, and that PC can be the K2 SAN control point PC.

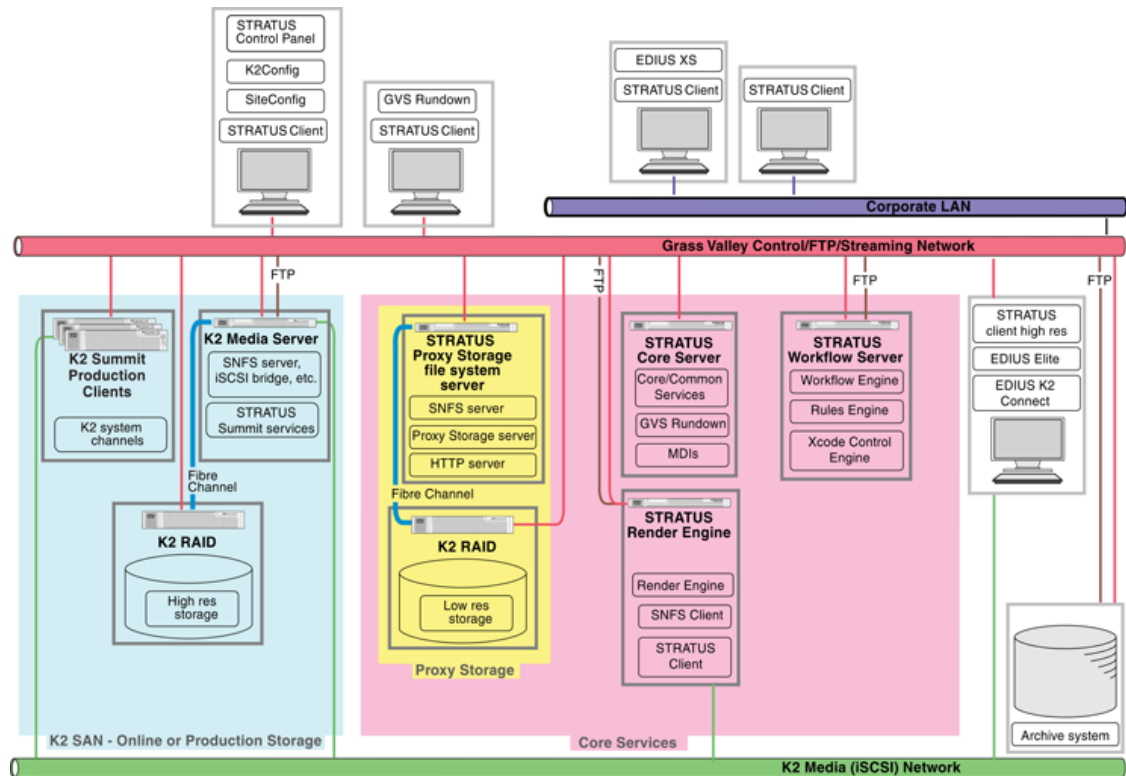
In addition to the Proxy Server, one or more GV STRATUS servers host components that provide the underlying functionality to the overall GV STRATUS system. Components can be distributed across multiple GV STRATUS servers to provide processing power as needed to support the workflow.

Related Topics

[About roles](#) on page 374

[Devices components: Roles, cab files, services, and licenses](#) on page 375

Large (B1, C1) system description: Proxy on dedicated Proxy Storage system



A large (B1, C1) GV STRATUS system is characterized by proxy stored on a dedicated Proxy Storage system. The Proxy Storage system is similar to a K2 Nearline SAN, or NAS. The Proxy Storage system stores the low resolution proxy media. The Proxy Storage file system server is a GV STRATUS server that has the role of Proxy Storage Server. This server is the SNFS file system server for the Proxy Storage system. The server provides an HTTP server that GV STRATUS client PCs access for proxy. A CIFS share is also required to which servers such as K2 systems and Render Engines write proxy.

This large GV STRATUS system is designed for a large-scale workflow and consists of a K2 Summit online or production SAN, a Proxy Storage system, multiple GV STRATUS servers, and multiple GV STRATUS client PCs. Client PCs that use a proxy media workflow are connected to the Corporate LAN or to the control network. Client PCs that use a high resolution media workflow are connected to the media (iSCSI) network. At least one PC must host the GV STRATUS Control Panel application. A designated PC on the control network hosts the SiteConfig application and the K2Config application. GV STRATUS Control Panel, SiteConfig, and K2Config applications can all be on the same PC, and that PC can be the K2 SAN control point PC.

In addition to the Proxy Storage file system server, one or more GV STRATUS servers host components that provide the underlying functionality to the overall GV STRATUS system. Components can be distributed across multiple GV STRATUS servers to provide processing power where it is needed to support your workflow. A system with one GV STRATUS Core server is

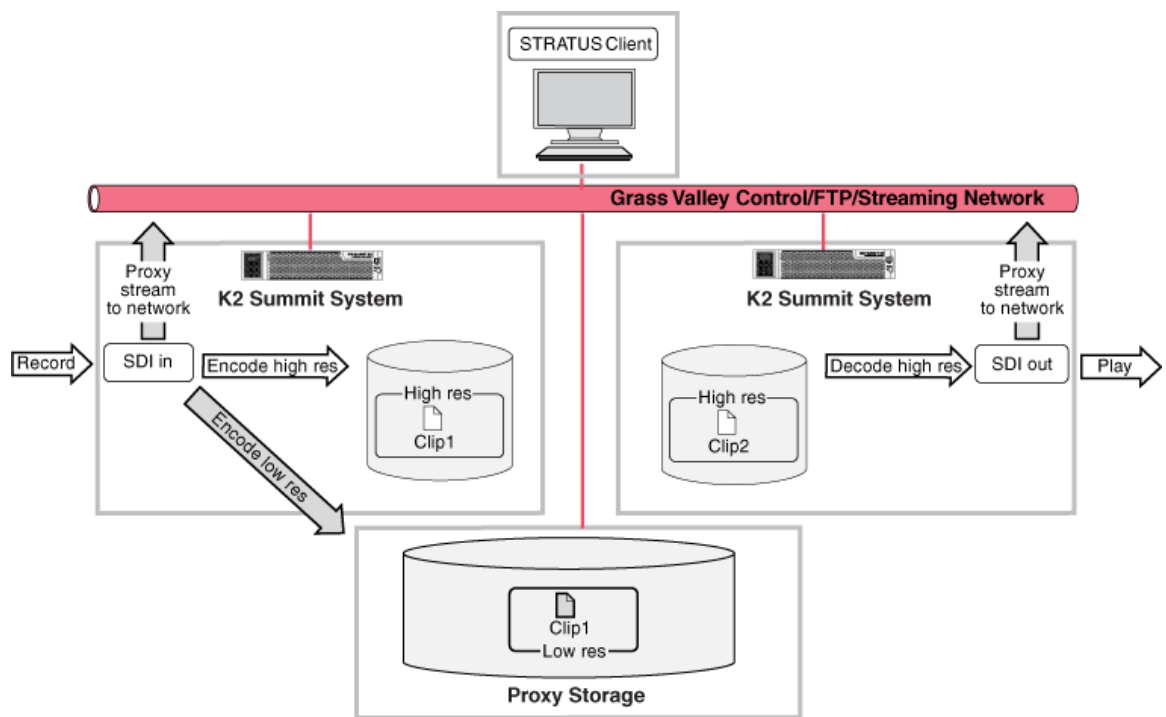
classified as a B1 system. A system with core server functionality distributed across multiple GV STRATUS Core servers is classified as a C1 system.

Related Topics

[About roles](#) on page 374

[Devices components: Roles, cab files, services, and licenses](#) on page 375

Proxy and live streaming workflow overview



When licensed and configured, a K2 Summit system creates low-resolution representations of high-resolution media. Similar to PB/EE functionality, the K2 Summit System creates a live stream of low-resolution media at the SDI input and a live stream of low-resolution media at the SDI output, whether or not record/play operations are underway. These streams are multicast to the network and are available to applications on the network. When media is recorded, the K2 Summit system encodes a high resolution clip and a low resolution proxy clip. The system keeps these clips associated so any changes take effect simultaneously for both clips.

The GV STRATUS application accesses the low-resolution media over the network. When you monitor the K2 Summit system SDI inputs and outputs, the application displays the live stream. When you view an asset, the application displays the proxy representation of the asset. When you edit an asset, the K2 Summit system makes your changes on both the proxy and the high resolution asset.

The K2 Summit system can also generate low-latency streaming media for use by DynoZoom and live monitoring. Refer to related topics in the "Configuring the K2 System" section of the K2 Topic Library.

Related Topics

[Corporate LAN network description](#) on page 346

[Control network description](#) on page 344

HTTP server overview

The GV STRATUS system HTTP server provides access to low resolution proxy media.

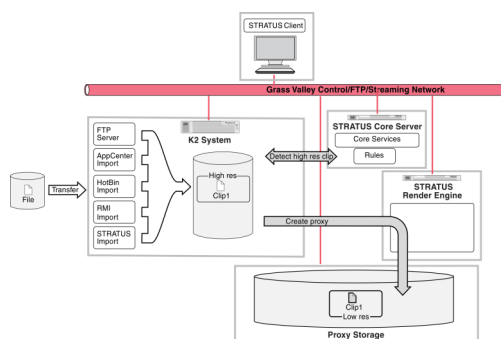
The GV STRATUS application accesses the proxy using a HTTP URL. This supports efficient, high-speed, and simultaneous access to proxy from multiple GV STRATUS clients. In addition, the HTTP server supports remote access for GV STRATUS clients.

The HTTP server is on the GV STRATUS device designated the proxy server. This can be one of the following devices, depending on the GV STRATUS system configuration:

- GV STRATUS Express server
- Proxy server
- Proxy Storage file system server

GV STRATUS components that create the low resolution proxy media must write the proxy files to a location served by the HTTP server. This location is CIFS proxy share. The GV STRATUS Control Panel creates the proxy share automatically when you configure Proxy Config settings. The proxy share is shared with full permission granted to the internal system account, which by default is GVAdmin. The K2 system and the Render Engine create proxy media and therefore require this CIFS access to the proxy share.

Proxy encoding overview



When you transfer a file into the K2 system, it is stored as a high resolution clip. GV STRATUS Rules Wizard detects the presence of the clip in the K2 storage. The Rules Wizard checks to see if the clip has associated proxy. If no proxy exists, the Rules Wizard checks rules. GV STRATUS rules specify that all high resolution clips must have proxy, so the Rules Wizard sends a transcode job to a Render Engine. If there are multiple high resolution clips to be transcoded, the transcode

jobs are queued up sequentially and the next available Render Engine transcodes the next job in the sequence. The Render Engine transcodes the high resolution clip to create the proxy. The Render Engine generates proxy media for high-resolution clips with one video track. Clips with more than one video track are not supported.

Functional descriptions

The topics in this section describe the components of the GV STRATUS system.

K2 system

A K2 system can include one or more standalone K2 Summit systems, an online or production K2 Summit SAN, or a combination of standalone and SAN systems.

The K2 system records, plays, and stores high-resolution media. It also generates low-resolution proxy media so that network connected GV STRATUS clients can be included in the media workflow without direct access to the high-resolution media. The K2 system generates the low-resolution media as a live video stream at SDI inputs and outputs. When the K2 system records a high-resolution clip, it creates low-resolution media files that are the proxy for the high-resolution clip.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

GV STRATUS server

The GV STRATUS server hosts the software services and databases of the GV STRATUS system. There can be one or more GV STRATUS servers in a GV STRATUS system, with services and databases distributed across servers as appropriate for the size of the system. For smaller GV STRATUS systems, the GV STRATUS Express server can also store low-resolution proxy media.

Components that can reside on a GV STRATUS server include the following:

- License management — Services that manage the assignment of licenses and roles to groups and users.
- User preferences — The settings you make in the STRATUS application. When you log in to the GV STRATUS application with the same credentials, the settings you make on one PC are available on other PCs.
- Proxy Server — Services that manage the location of proxy media and the GV STRATUS application's access to the proxy media.
- Databases — Includes information for the following:
 - Media asset management
 - Metadata
 - Rules
 - Transfers
 - GV STRATUS Rundown SDB (Simple Database)
 - Scheduler
 - Rules Engine
 - Workflow Engine

- **MDI** — MDI is the acronym for Managed Device Interface. An MDI is a software component that provides an interface for the GV STRATUS database to access a device. Typically these are devices on which media resides, such as K2 systems, NAS devices, and archive devices. Each type of device has its own MDI. For most MDIs, the MDI software component is hosted on the GV STRATUS Core server, rather than being hosted on the same machine that it accesses. MDIs include the following:
 - Summit Standalone
 - Summit SAN
 - DIVA
 - FlashNet
 - Generic FTP
- **Render Engine** — A GV STRATUS server that functions as a proxy encoder and as a conform server. As a proxy encoder, the server creates low-resolution proxy assets. If a high-resolution asset does not yet have associated proxy, the server creates it. The software that provides the proxy encoder functionality can run on a dedicated Render Engine server or on a GV STRATUS server that has other roles as well, such as a GV STRATUS Express server. As a conform server, the server hosts the Render Engine Service. The service renders a complex asset, such as a GV STRATUS sequence or a project created in EDIUS, into a simple clip.
- **Workflow Server** — A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations.

A Fault Tolerant (FT) GV STRATUS server is also available. This is an enhanced platform designed to reduce the risk of system failure.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[Connect Core server to corporate LAN](#) on page 202

[About GV STRATUS system databases](#) on page 350

[GV STRATUS system and server variants](#) on page 174

[GV STRATUS server](#) on page 181

[GV STRATUS server partitions](#) on page 453

Proxy Storage system

The Proxy Storage system is a type of K2 Nearline SAN. It stores the low-resolutions assets on the network.

The Proxy Storage system includes the following:

- A Proxy Storage file system server, which is a GV STRATUS server that manages the Proxy Storage media file system. It also provides the GV STRATUS application access to low-resolution assets. K2 server software is required on the Proxy Storage file system server.
- K2 RAID
- Ethernet switch

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

GV STRATUS client

The GV STRATUS application functions as a client to the GV STRATUS Core Services. The GV STRATUS application runs on a GV STRATUS client PC. With the appropriate licensing, the EDIUS application can also run on a GV STRATUS client PC. GV STRATUS client PCs are supplied by the customer. By default, the GV STRATUS application and the EDIUS XS application access low-resolution live streaming and proxy media. If the PC is set to high-resolution in GV STRATUS Control Panel Proxy Access settings, the GV STRATUS application accesses high-resolution media. This also requires a high-resolution license.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[About GV STRATUS client PCs](#) on page 348

[Client PC set up process](#) on page 204

Preparing for installation

About installing the GV STRATUS system

This manual provides two paths for installing your GV STRATUS system, as follows:

- Commissioning process — Follow this process as your primary path. It assumes you received your system completely set up and configured from Grass Valley.
- Complete system installation process — Use this process only if you must change the system configuration or if there are system setup or configuration processes that are incomplete. Browse this process and do the appropriate items.

Read the following to familiarize yourself with your GV STRATUS system before you begin the commissioning process:

- GV STRATUS system software and documentation is available for download from the Grass Valley website.
- The GV STRATUS application runs on off-the-shelf Windows operating system computers. These GV STRATUS client PCs are supplied by the customer that owns the GV STRATUS system. Grass Valley does not supply these computers.
- GV STRATUS services run on one or more GV STRATUS servers that are supplied by Grass Valley with all the necessary hardware and software installed. GV STRATUS software licenses are required to support the customer workflow. Licenses are installed on the GV STRATUS server with role of Common Services.
- The GV STRATUS Control Panel application runs on a PC that has network access to the GV STRATUS Core server.
- With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.
- There should be just one instance of SiteConfig installed on a single PC.

- A designated Control Point PC is optional for the GV STRATUS system. If your GV STRATUS system access a K2 SAN, then the SAN's Control Point PC typically functions as the Control Point PC for the GV STRATUS system as well. GV STRATUS Control Panel, SiteConfig, K2Config, and SNMP manager applications are installed on the Control Point PC.
- Refer to release information and upgrade information for instructions on obtaining software licenses and upgrading the GV STRATUS system.

Related Topics

[System requirements for GV STRATUS client PC](#) on page 43

Commissioning process

Use the following list to guide the overall task flow of commissioning your system. This commissioning process assumes you received your system completely set up and configured from Grass Valley.

1. [Rack, cable, and power on process](#) on page 185. All systems require this process.
2. [Test system setup and configuration process](#) on page 199. All systems require this process. Verify that your cabling is correct, the system is operational as when pre-staged by Grass Valley, and to complete procedures by logging in to all devices and applications as user Administrator.
3. [Customer network, licenses, and roles process](#) on page 202. All systems require this process. Set up the GV STRATUS Core server on the customer's network and assign GV STRATUS licenses and roles to the customer's groups and users.
4. [Client PC set up process](#) on page 204. All systems require this process. Add the customer's GV STRATUS client PCs to the system.

Complete system installation process

Use the following list if you must change the system configuration or if there are system setup or configuration processes that are incomplete. Browse this process and do the appropriate items.

1. [Rack, cable, and power on process](#) on page 185. All systems require this process.
2. [K2 system set up process](#) on page 599. All systems require this process.
3. [Express/Core server set up process](#) on page 601. All systems require this process. Use SiteConfig for network setup and software install. On the GV STRATUS server with role of Common Services, use SabreTooth and install GV STRATUS licenses.
4. [Proxy Server/Storage set up process](#) on page 613. Only systems with proxy on the K2 SAN (A1) or with proxy on dedicated Proxy Storage (B1, C1) require this process. Use SiteConfig for network setup and software install, then use K2Config for SAN setup.
5. [GV STRATUS Control Panel system configuration process](#) on page 641. All systems require this process. Use GV STRATUS Control Panel to configure the GV STRATUS system for your site's workflow.
6. [Customer network, licenses, and roles process](#) on page 202. All systems require this process. Set up the GV STRATUS Core server on the customer's network and assign GV STRATUS licenses and roles to the customer's groups and users.

7. [Client PC set up process](#) on page 204. All systems require this process. Add the customer's GV STRATUS client PCs to the system.
8. [SiteConfig software deployment process](#) on page 658. All systems require this process when updating to new versions of Grass Valley product software.
9. [Render Engine Server set up process](#) on page 674. Only systems with a Render Engine Server require this process. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-CONFORM license. Use SiteConfig for network setup and software install. Then use K2Config for SAN setup.
10. [Archive system set up process](#) on page 695. Only systems with an archive system require this process. Configure the archive system with the K2 Summit/SAN system, use SabreTooth to install the STRATUS-ARCHIVE license, and in GV STRATUS Control Panel configure an archive MDI.
11. [Workflow Server set up process](#) on page 718. Only systems with a Workflow Server require this process. Use SiteConfig for network setup and software install. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-RULES license optional transfer/transcode licenses.

Commissioning a system

Commissioning process

Use the following list to guide the overall task flow of commissioning your system. This commissioning process assumes you received your system completely set up and configured from Grass Valley.

1. [Rack, cable, and power on process](#) on page 185. All systems require this process.
2. [Test system setup and configuration process](#) on page 199. All systems require this process. Verify that your cabling is correct, the system is operational as when pre-staged by Grass Valley, and to complete procedures by logging in to all devices and applications as user Administrator.
3. [Customer network, licenses, and roles process](#) on page 202. All systems require this process. Set up the GV STRATUS Core server on the customer's network and assign GV STRATUS licenses and roles to the customer's groups and users.
4. [Client PC set up process](#) on page 204. All systems require this process. Add the customer's GV STRATUS client PCs to the system.

Rack, cable, and power on process

All systems require this process.

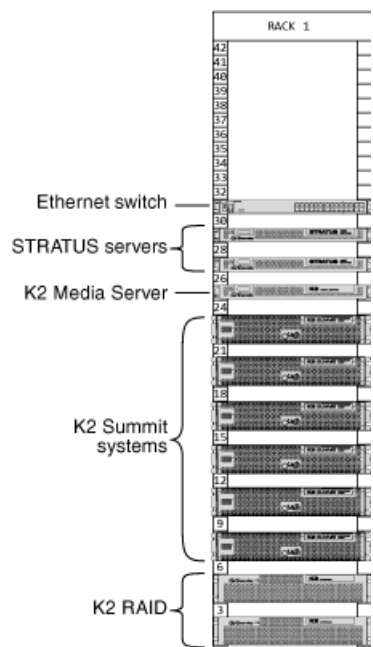
1. [Rack-mount devices](#) on page 186. All systems require this process.
2. [Cable K2 systems](#) on page 190. All systems require this process.

- 3. [Cable GV STRATUS server](#) on page 190. All system require this process. Cable the GV STRATUS servers that are in your system design.
- 4. [Cable Proxy Storage system](#) on page 195. Only systems with proxy on a dedicated Proxy Storage system require this process.
- 5. [Power on K2 and GV STRATUS system devices](#) on page 198. All systems require this process.

Rack-mount devices

All systems require this process.

Follow the instructions you received with the rack-mount hardware to install each component of the system. One rack-unit spacing is recommended between components for ventilation. The recommended arrangement of devices is as follows:



HP ProCurve Switch Rack specifications

Use the following specifications to determine load, spacing, power, and other factors when planning system racks.

Table 3: Mechanical specifications

Characteristic	Specification
Cabinet Type	Rack-mount
Rack units	1

Characteristic	Specification
External Dimensions	443 (w) x 44 (h) x 392 (d) mm
Weight	Maximum 7 kg

Table 4: Power specifications

Characteristic	Specification
Type	100-127 VAC/200-240 VAC; 50/60 Hz
Power Consumption	4.0/2.0 A, 200W

Dell R620 Rack specifications

Use the following specifications to determine load, spacing, power, and other factors when planning system racks.

Table 5: Mechanical specifications

Characteristic	Specification
Cabinet Type	Rack-mount
Rack units	1
External Dimensions	482.4 (w) x 42.8 (h) x 683.7 (d) mm
Weight	Maximum 18.6kg , 40.96 lbs

Table 6: Power specifications

Specification	1100W DC	1100W AC	750W AC	495W AC
Current consumption	32A	12A-6.5A	10A-5A	6.5A-3A
Supply voltage	-48V to -60V DC	100-240VAC	100-240VAC	100-240VAC
Frequency	N/A	50/60Hz	50/60Hz	50/60Hz
Heat dissipation (BTU/hr max)	4416	4100	2843	1908
Maximum inrush current	55A	55A	55A	55A

K2 Summit 3G Rack specifications

Use the following specifications to determine load, spacing, power, and other factors when planning system racks. These specifications apply to K2 Summit 3G chassis.

Table 7: Mechanical specifications

Characteristic	Specification
Cabinet Type	Rack-mount
Rack units	2
External Dimensions	447 x 617 x 89 mm
Weight	25.0 kg maximum

Table 8: Power specifications

Characteristic	Specification
Power conditions	Dual, redundant
Mains Input Voltage	90 to 260V auto-range, 47-63Hz
Maximum power consumption (when operating in a 25° C environment)	450W typical (standalone) 390W typical (SAN client) Maximum AC current 8A @ 115VAC, 4A @ 230VAC

K2 RAID Rack specifications

Use the following specifications to determine load, spacing, power, and other factors when planning system racks. These specifications apply to K2 10Gv3 RAID (M110) chassis.

Table 9: Mechanical specifications

Characteristic	Primary chassis	Expansion chassis
Cabinet Type	Rack-mount	Rack-mount
Rack units	2	2
External Dimensions	482 x 556.0 x 87.4 mm (no front bezel)	482 x 556.0 x 87.4 mm (no front bezel)
Weight	33 kg maximum	33 kg maximum

Table 10: Power specifications

Characteristic	Primary chassis	Primary chassis
Power conditions	100 to 240 VAC, single-phase 50/60 Hz	100 to 240 VAC, single-phase 50/60 Hz

FT Server Rack specifications

Use the following specifications to determine load, spacing, power, and other factors when planning system racks.

Table 11: Mechanical specifications

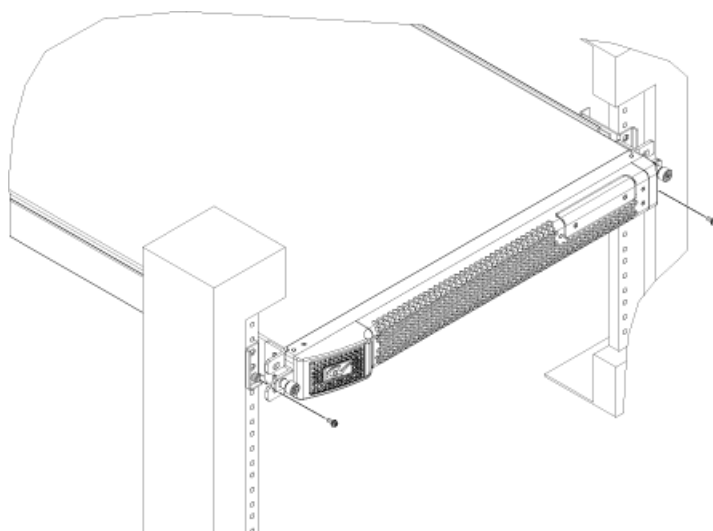
Characteristic	Type I and Type II Specification
Cabinet Type	Rack-mount
Rack units	4
External Dimensions	483 (w) x 178 (h) x 736 (d) mm, 19.0 in. (w) x 7.0 in. (h) x 28.9 in. (d)
Rack clearance	40 cm or more on top, 1 m or more on the front and rear, 60 cm or more on the right and left.
Weight	Maximum 51.5kg , 113.3 lbs

Table 12: Power specifications

Power Supply	Type I Specifications	Type II Specifications
Type	AC 100V-240V +/- 10%, 50/60Hz +/- 3Hz	AC 100V-240V +/- 10%, 50/60Hz +/- 3Hz
Power Consumption	1400VA, 1390W	1300VA, 1290W

Securing a server to a rack

If the server is a Dell server, follow the instructions provided in the shipping box to install the rack rails and position the server in the rack. For the Dell 1RU PowerEdge Server, follow the illustration below to secure the system to the rack.



Install a screw in the bottom hole of the bracket on each side. Do not attempt to install a screw in the top hole of the bracket.

Cable K2 systems

All systems require this process.

Cable the K2 systems that store and serve your high-resolution assets. This includes any K2 SAN systems and K2 standalone systems in your system design.

For K2 SAN systems, refer to the "Cabling K2 Storage" section of the K2 Topic Library and "K2 10G SAN Installation and Service Manual" for instructions.

For K2 standalone systems, refer to the "Configuring the K2 System" section of the K2 Topic Library for instructions.

Cable GV STRATUS server

All system require this process. Cable the GV STRATUS servers that are in your system design.

The topics in this section apply to GV STRATUS servers as follows:

- GV STRATUS Express server
- GV STRATUS Core server
- Proxy server
- Render Engine
- Workflow Server

Other topics apply to a GV STRATUS server that is a Proxy Storage file system server.

Related Topics

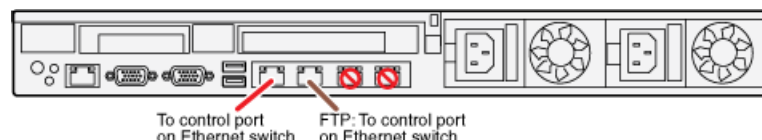
[STRATUS-CS server: Proxy Storage file system server Dell R620](#) on page 196

STRATUS-CS server: Express, Core (A1, B1, C1) Dell R620

These cabling instructions apply to GV STRATUS Express server and GV STRATUS Core server, specified as follows:

- Dell R620 PowerEdge server with one or more roles from the following list only:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

These roles require a connection to the control network and the FTP/streaming network.

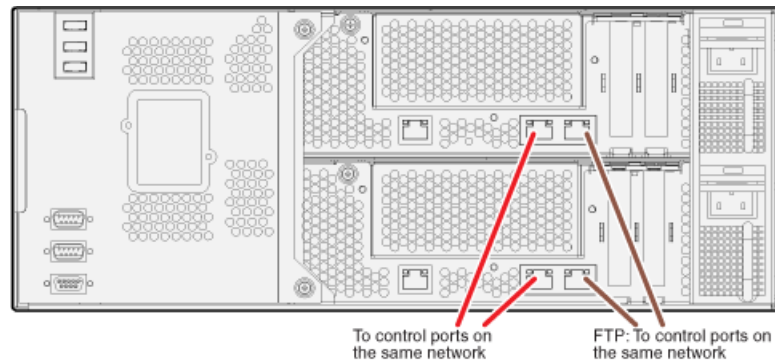


STRATUS-CS-FT server: Core (B1, C1)

These cabling instructions apply to GV STRATUS Express server and GV STRATUS Core server, specified as follows:

- Grass Valley FT server with one or more roles from the following list only:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

These roles require a connection to the control network and the FTP/streaming network.



NOTE: Network ports on CPU/IO module 1 and on CPU/IO 2 both connect to the same network. For example, both control ports connect to the same control network. Do not attempt to connect to different networks.

Related Topics

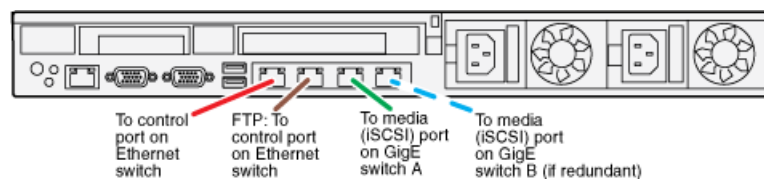
[Devices components: Roles, cab files, services, and licenses](#) on page 375

STRATUS-CS-RE server: Render Engine Dell R620

These cabling instructions apply to a GV STRATUS server, specified as follows:

- Dell R620 PowerEdge server with roles from the following list:
 - GV STRATUS Control Panel
 - GV STRATUS Event Viewer
 - GV Log Manager
 - StorNext File System Client
 - GV Embedded Security Manager
 - GV STRATUS Render Engine

For the Render Engine server, these roles require connections to the media (iSCSI) network and the control network. Grass Valley policy requires an additional connection to the FTP/streaming network.



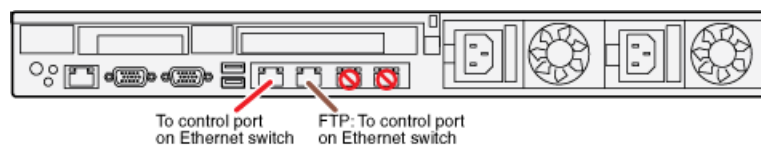
If a basic, non-redundant K2 SAN, connect port 2 to the one media (iSCSI) network. If a redundant K2 SAN, connect port 2 to media network A and port 3 to media network B.

STRATUS-CS-WFE server: Workflow Dell R620

These cabling instructions apply to a GV STRATUS server, specified as follows:

- Dell R620 PowerEdge server with roles from the following list:
 - GV STRATUS Event Viewer
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Control Panel
 - GV Log Manager

For the Workflow server, these roles require connections to the control network and the FTP/streaming network.

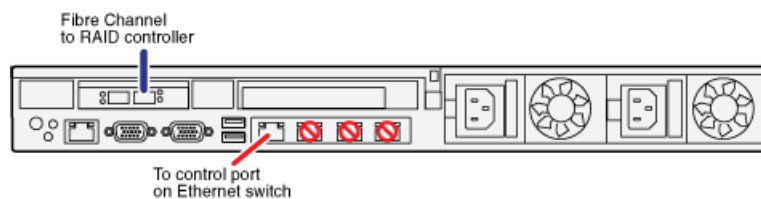


STRATUS-CS server: Proxy Dell R620

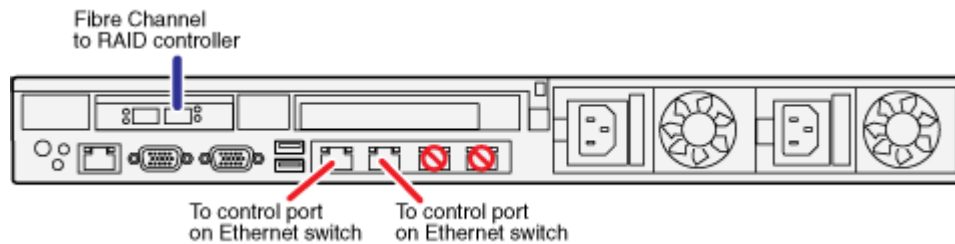
These cabling instructions apply to a GV STRATUS Proxy server, specified as follows:

- Dell R620 PowerEdge server connected to on an online or production K2 SAN, with the following roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy K2 SAN Server
 - GV Log Manager
 - StorNext File System Client

These roles require connections to the control network and a Fibre Channel connection to the K2 RAID. The server can have other roles as well.



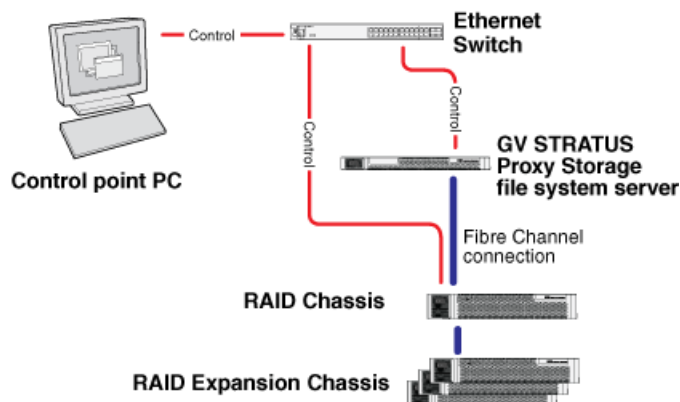
If network redundancy is required, control network teaming can be configured on the server, with 2 physical Control connections as shown in the diagram below:



Cable Proxy Storage system

Only systems with proxy on a dedicated Proxy Storage system require this process.

Proxy Storage system



To cable this device...	Of this model or platform...	Turn to these instructions:
Gigabit Ethernet Switch	HP 2910	K2-SWE basic Proxy Storage on page 196
GV STRATUS Proxy Storage file system server	Dell R620	STRATUS-CS server: Proxy Storage file system server Dell R620 on page 196
K2 RAID	K2 10Gv2 RAID	K2 RAID basic Proxy Storage on page 197

Cable Ethernet switch

As directed by the system diagram for your storage system, cable the switch or switches for your system using the instructions in this section.

These instructions are for the HP ProCurve switch 29xx series.

If a different brand of switch, such as a Cisco Catalyst switch, is required by your site, apply the information in the following procedures accordingly. Refer to the documentation you received with the switch as necessary.

Install the switch in its permanent location. When installing in a video equipment rack, use 10-32 screws. Do not use HP's 12-24 screws, as they can cause thread damage.

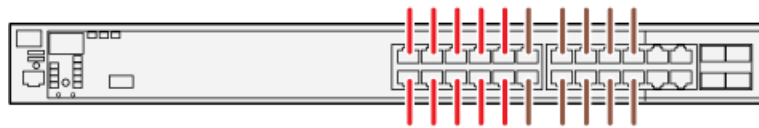
Provide power to the switch.

K2-SWE basic Proxy Storage

These cabling instructions apply to the following:

- HP 29xx series Gigabit Ethernet switch on a Proxy Storage system.

Front view



Ports are for control connections as well as FTP connections from Grass Valley and 3rd party systems.

GV STRATUS server: Proxy Storage

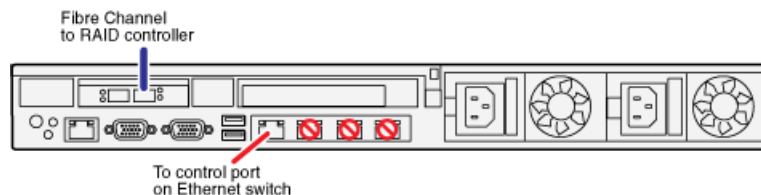
As directed by the system diagram for your Proxy Storage system, cable the GV STRATUS server that is the Proxy Storage file system server using the instructions in this section

STRATUS-CS server: Proxy Storage file system server Dell R620

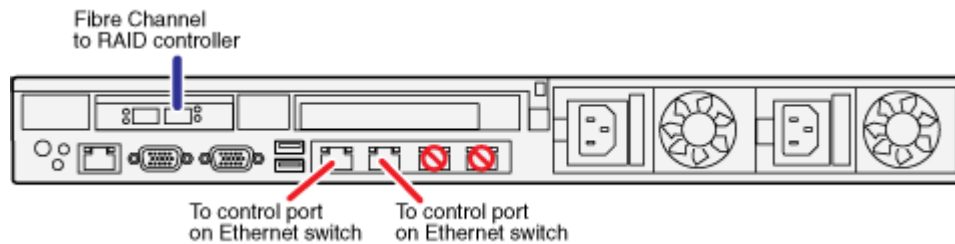
These cabling instructions apply to GV STRATUS Proxy Storage file system server, specified as follows:

- Dell R620 PowerEdge server with the following roles on a Proxy Storage system:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy Storage Server
 - GV Log Manager
 - StorNext File System Server
 - StorNext File System Client

These roles require connections to the control network and a Fibre Channel connection to the Proxy Storage system's K2 RAID. The server can have other roles as well.



If network redundancy is required, control network teaming can be configured on the server, with 2 physical Control connections as shown in the diagram below:



Related Topics

Devices components: Roles, cab files, services, and licenses on page 375

Cable K2 RAID

Before cabling, install the K2 RAID chassis in its permanent location. After mounting the chassis in the rack, you must secure brackets to the front rail to support the Grass Valley bezel. Refer to related topics in the "Installing and Servicing the K2 SAN" section of the K2 Topic Library for rack mount instructions.

You do not need to manually set a Fibre Channel address ID on controllers or a chassis address on Expansion chassis.

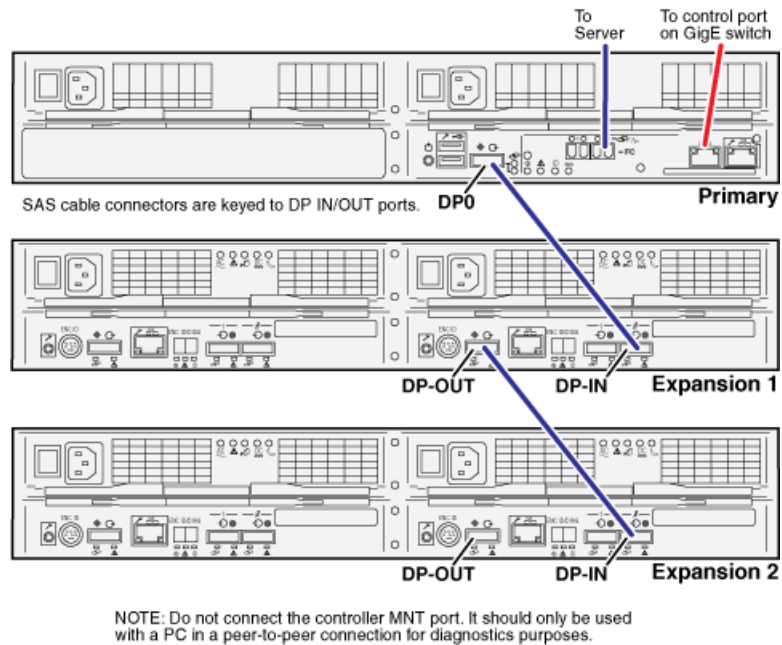
As directed by the system diagram for your storage system, cable the K2 RAID devices using the instructions in this section.

Once the RAID storage is connected and configured, do not swap Expansion chassis or otherwise reconfigure storage. If you connect an Expansion chassis in a different order or to the wrong controller, the controller will see a configuration mismatch and fault.

K2 RAID basic Proxy Storage

These cabling instructions apply to the following:

- K2 10Gv2 RAID (M100) on basic Proxy Storage.



Continue this cable pattern for additional Expansion Chassis.

Power on K2 and GV STRATUS system devices

All systems require this process.

1. Power on K2 systems.
 - For a K2 SAN, follow instructions in the "Installing and Servicing the K2 SAN" section of the K2 Topic Library.
 - For standalone K2 Summit systems, follow instructions in "K2 Summit Production Client Quick Start Guide".
2. If you have a Proxy Storage system, do the following:
 - a) Power on K2 RAID and Ethernet switches.
 - b) Power on the Proxy Storage file system server.
3. Power on all GV STRATUS servers.

GV STRATUS servers logon account

In an operational GV STRATUS system, GV STRATUS servers must be running and logged on to the Windows operating system. The logon account must be the GV STRATUS system internal system account. The internal system account is the account that the GV STRATUS system uses to access assets and some internal system functions. By default this is the GVAdmin account. Under supervision of Grass Valley, the internal system account can be changed.

NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

Related Topics

[STRATUS Core Services settings](#) on page 247

Test system setup and configuration process

All systems require this process. Verify that your cabling is correct, the system is operational as when pre-staged by Grass Valley, and to complete procedures by logging in to all devices and applications as user Administrator.

1. [Identify test applications and setup](#) on page 199. All systems require this process. Locate the applications pre-installed for test purposes and verify test environment.
2. [Test K2 systems](#) on page 200. All systems require this process.
3. [Pinging devices from the PC that hosts SiteConfig](#) on page 218.
4. [Test required GV STRATUS configuration settings](#) on page 201. All systems require this process.

Identify test applications and setup

All systems require this process. Locate the applications pre-installed for test purposes and verify test environment.

Grass Valley pre-installs all the applications you need to test basic system functionality. Before beginning with your tests, find the applications and make sure you understand the system setup you are testing.

When Grass Valley pre-installs applications for test purposes, in some cases the applications are installed on systems that do not meet the application's system requirements. This can cause minor functional anomalies that should not be interpreted as system problems. For example, a server platform does not have the graphics support required for the GV STRATUS application, so some complex graphic displays, such as overlay transport controls, do not appear. In these cases use the application for basic system test purposes only.

1. Find test applications according to your system design, as follows:
 - GV STRATUS system (Express) with no K2 SAN:
 - K2 Summit systems — K2 AppCenter
 - GV STRATUS Express server — SiteConfig, GV STRATUS Control Panel, and GV STRATUS applications. All applications for test purposes only.
 - GV STRATUS system (A1, B1, C1) with a K2 SAN:
 - K2 Summit systems — K2 AppCenter
 - The K2 SAN's control point PC — SiteConfig and GV STRATUS Control Panel applications. Also the GV STRATUS application, for test purposes only.

2. Verify the state of your system at first power up, as follows:
 - GV STRATUS systems ship from Grass Valley with network configuration set to a workgroup named GRASS VALLEY.
 - All Windows operating system devices are a part of the GRASS VALLEY workgroup, with the same user groups, accounts, and passwords.
 - If your system has a GV STRATUS Express server, your site's GV STRATUS licenses (SabreTooth) are installed on that server. Otherwise they are installed on the GV STRATUS server with role of Common Services.
 - In the GV STRATUS Control Panel application, all licenses are assigned to the user group Administrators, which includes the user GVAdmin.
 - In the GV STRATUS Control Panel application, for your highest level license, all roles are assigned to the user GVAdmin.
3. Leave network configuration set to workgroup to perform initial tests at first power up.

With your system in this state you can validate basic operations without introducing potential networking/permissions problems.
4. When testing, log in to all devices and applications as user Administrator.
5. After the system is commissioned and all operations are fully verified, ensure that applications installed on system devices for test purposes only are not used as part of the site's operational workflow. Applications are not supported for operation with full production workloads in these locations.

Test K2 systems

All systems require this process.

Whether you received your K2 system already set up from Grass Valley or you set up your K2 system on site, you should test the K2 system before proceeding.

This topic applies to the K2 systems that store and serve your high-resolution assets.

Test basic record and play operations using K2 AppCenter.

Refer to the "Using K2 AppCenter" section of the K2 Topic Library.

Related Topics

[Identify test applications and setup](#) on page 199

Pinging devices from the PC that hosts SiteConfig

All systems require this process. With SiteConfig, send the ping command to one or more devices.

- The devices you are pinging must be in the SiteConfig system description.

You can send the ping command to one or more devices in the system description over the network to which the SiteConfig host PC is connected. Typically this is the control network.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. In the Devices list view, select one or more devices. Use Ctrl + Click or Shift + Click to select multiple devices.

3. Right-click the selected device or devices and select **Ping**.

The Ping Devices dialog box opens and lists the selected device or devices.

The Ping Devices dialog box reports the progress and results of the ping command per device.

Related Topics

[Identify test applications and setup](#) on page 199

Test required GV STRATUS configuration settings

All systems require this process.

Whether you received your system pre-configured from Grass Valley or you configured your system on site, you should test the system operation before proceeding.

GV STRATUS client test

Do this for all systems. Whether you received your system pre-configured from Grass Valley or you configured your system on site, you should test the GV STRATUS application from one GV STRATUS client PC before proceeding.

In the GV STRATUS application, do the following:

- a) In the Navigator, verify access to K2 Summit system bins.
- b) Create a Channel Panel and test record/play operations.
- c) In the Navigator, select assets on the K2 Summit system.

The assets appear in the Asset List.

- d) Double-click an asset in the Asset List.

The asset opens in the Inspector.

- e) In the Inspector, verify that the asset has a proxy association.

Related Topics

[Identify test applications and setup](#) on page 199

GV STRATUS proxy encoding test

Do this for all systems with Render Engines. Whether you received your system pre-configured from Grass Valley or you configured your system on site, you should test the proxy encoding from one GV STRATUS client PC before proceeding.

1. In the GV STRATUS application, identify a high-resolution asset and do the following:

- a) In the Navigator, select the high-resolution asset on the K2 Summit system.

The asset appears in the Asset List.

- b) Display the **Has Proxy** column in the Asset List.
- c) Verify that the asset has a proxy association.
- d) Make sure the asset has not recently been used by any GV STRATUS tool or panel.

An asset can retain an association with the tool or panel that recently used it and prevent proxy from being regenerated.

2. In the Asset List, right-click the high-resolution asset and select **Regenerate Proxy**.
3. Verify the following behavior:
 - a) In the **Associations** tab of the Inspector, the proxy association is momentarily not visible.
This occurs as the GV STRATUS system deletes the proxy asset.
 - b) In the **Associations** tab of the Inspector, the proxy association shows as recording.
This occurs due to the GV Render Engine is in the process of regenerating the proxy asset.
 - c) In the **Associations** tab of the Inspector, the proxy association is visible again.
This occurs as a result of the GV Render Engine has finished regenerating the proxy asset.

Customer network, licenses, and roles process

All systems require this process. Set up the GV STRATUS Core server on the customer's network and assign GV STRATUS licenses and roles to the customer's groups and users.

1. [Connect Core server to corporate LAN](#) on page 202. All systems require this process. Provide GV STRATUS servers access to the corporate LAN.
2. [Configuring licenses and roles settings: Required](#) on page 203. All systems require this process. Assign GV STRATUS licenses and roles to groups and users.

Connect Core server to corporate LAN

All systems require this process. Provide GV STRATUS servers access to the corporate LAN.

Corporate LAN access is required for GV STRATUS server variants of Express, Core, Proxy server, and Proxy Storage file system server.

Both local and remote GV STRATUS client PCs must be able to resolve the hostname of the core server.

If your GV STRATUS system is on a domain, all servers and client PCs on that system that have any interaction with Grass Valley components must be logged on to Windows with a domain user account. Do not use a local user account.

1. Work with the IT personnel at the customer site to configure Domain, DNS, DHCP, or any other settings required by the site's LAN.
2. If you have GV STRATUS applications on a different Windows domain from the server, define a trust relationship (one way or two way).

For example, you could have your GV STRATUS on Windows domain A with a trust in the B domain. GV STRATUS applications running on Windows domain B can then connect to the server on Windows domain A.

Related Topics

[About groups and users on a GV STRATUS system](#) on page 30

[License Management settings](#) on page 302

[Devices components: Roles, cab files, services, and licenses](#) on page 375

Configuring licenses and roles settings: Required

All systems require this process. Assign GV STRATUS licenses and roles to groups and users.

- The groups and users to which you are assigning licenses and roles must be set up, either on a workgroup or on a domain, on the following:
 - The GV STRATUS server with role of Common Services.
- The GV STRATUS server with role of Common Services must have the site's GV STRATUS licenses installed.

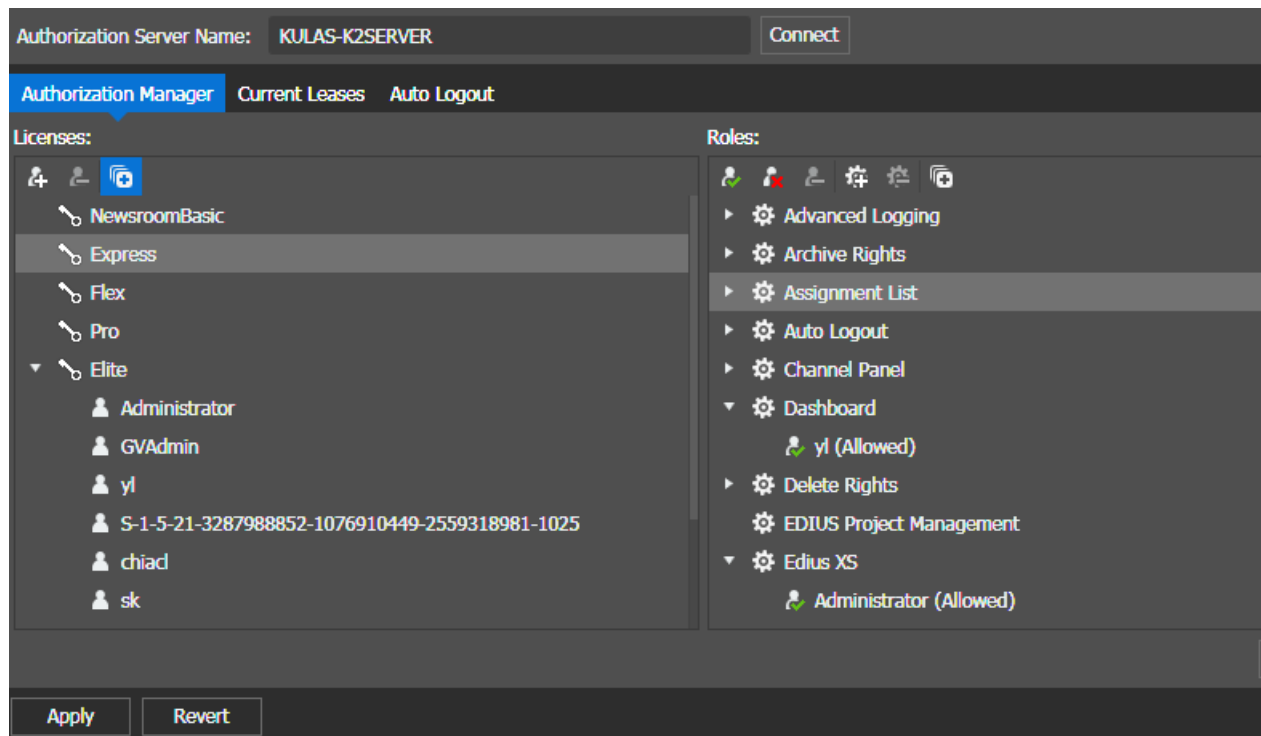
If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

When you receive your GV STRATUS system from Grass Valley, it is configured to workgroup, with all licenses and roles assigned to GVAdmin by default. Change the default configuration as appropriate for your site.

If you have temporary GV STRATUS licenses, GV STRATUS Control Panel allows you to configure Authorization Manager settings while you are waiting to install your permanent licenses. Authorization Manager displays indicators informing you of your license status.

To locate these settings, click **General | License Management | Authorization Manager**


1. In the GV STRATUS Control Panel application, open **License Management** settings.



2. On the Authorization Manager tab, enter the following:

- **Authorization Server Name:** The name of GV STRATUS server with role of Common Services.

3. Click the following:
 - **Connect:** Connects to the GV STRATUS server and populates settings. If the Connect button is disabled, it means you are already connected.
4. Assign licenses according to the following description:
 - **Licenses:** Settings to assign licenses to user groups. When you select a license and click **Assign**, you can use standard Windows operating system processes to assign a group to the license. This can be either Workgroup or Domain, as appropriate for your site's user accounts. When you first assign a license to a group, all users in the group are assigned all of that license's roles. These are floating license so you may over-assign. If you over-assign you must ensure that the number of licenses checked out at any one time does not exceed the number of licenses available.
5. Assign roles according to the following description:
 - **Roles:** Settings to assign tools and other functionality to users or groups. When you expand a node and select one of its groups or users, you can allow or deny the group or user the use of that operation. You can also remove the group or user from the node. If a tool is not assigned to a user, when that user logs into the GV STRATUS application, the tool does not appear in the GV STRATUS application. If a new version of GV STRATUS software adds a role to a license, make sure it is assigned correctly to existing users.

You can click the **Expand All**  button to expand all licenses and roles on the **Authorization Manager** tab.

6. Click **Apply** to save your current settings, or click **Revert** to return to the last saved settings.

Related Topics

[Identify test applications and setup](#) on page 199

[GV STRATUS roles matrix](#) on page 158

[Adding a custom role](#) on page 394

Client PC set up process

All systems require this process. Add the customer's GV STRATUS client PCs to the system.

Your GV STRATUS system can have client PCs on different networks, depending on your system design and licensing. Work through the tasks in this section as appropriate for your GV STRATUS client PCs.

1. [System requirements for GV STRATUS client PC](#) on page 43. All systems require one or more GV STRATUS client PCs. Verify that all GV STRATUS client PCs meet system requirements.
2. [Cabling for high-resolution client PC](#) on page 207. Only systems with GV STRATUS client PCs on the K2 media (iSCSI) network require this process. Connect the PC to the control network and to the media network.
3. [Set firewall for application ports](#) on page 207. All systems require this process. Each GV STRATUS client PC must have the necessary port settings opened to ensure the GV STRATUS client application can connect to all servers.

4. [Install/configure for SiteConfig support on client PC](#) on page 211. All systems require this process. Prepare each GV STRATUS client PC so that it can be managed by SiteConfig.
5. [SiteConfig network setup for corporate LAN](#) on page 215. Only systems with GV STRATUS client PCs on the corporate LAN require this process. Add the corporate LAN to the SiteConfig system description.
6. [SiteConfig placeholder setup for client PC](#) on page 216. All systems require this process. Add client PCs as placeholder devices to the SiteConfig system description.
7. [SiteConfig corporate LAN setup for client PC](#) on page 218. Only systems with GV STRATUS client PCs on the corporate LAN require this process. Establish communication between SiteConfig and corporate LAN PCs without using device discovery.
8. [SiteConfig control network setup for client PC](#) on page 219. Only systems with GV STRATUS client PCs on the control network require this process. Add client PCs to SiteConfig using device discovery.
9. [SiteConfig software installation for client PC](#) on page 227. All systems require this process. Install GV STRATUS software for the first time on your GV STRATUS client PCs.
10. [K2Config setup for high-resolution client PC](#) on page 238. Only systems with GV STRATUS client PCs on the K2 media (iSCSI) network require this process. Add the PCs as clients to the K2 SAN.
11. [Set GV STRATUS client PC to high-resolution](#) on page 82. Only systems with GV STRATUS client PCs that use a high-resolution media workflow require this process. Configure the PC in GV STRATUS Control Panel.

Related Topics

[About GV STRATUS client PCs](#) on page 348

[GV STRATUS client](#) on page 183

System requirements for GV STRATUS client PC

All systems require one or more GV STRATUS client PCs. Verify that all GV STRATUS client PCs meet system requirements.

Virtual Machines, Remote Desktop, and other modes of remote access are not supported. Lack of robust video/graphic support can cause video display problems.

GV STRATUS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running one or more of the following:

- The GV STRATUS application with a proxy media workflow.
- The GV STRATUS Control Panel application.
- The SiteConfig application.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM

Characteristic	Specification
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 32-bit or 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS/EDIUS XS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running the following:

- The GV STRATUS application and the EDIUS XS application, with a proxy media workflow.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit NOTE: 64-bit required for EDIUS XS
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS high-resolution workstation

These requirements apply to a PC running the following:

- The GV STRATUS application with a high-resolution media workflow. This requires access to high-resolution assets.
- The EDIUS Workgroup application with a high-resolution media workflow. This requires access to high-resolution assets.

Characteristic	Specification
Processor	Two Intel Xeon 5410 Quad Core 2.33GHz
Memory	4GB RAM

Characteristic	Specification
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	100GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Dual Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

Cabling for high-resolution client PC

Only systems with GV STRATUS client PCs on the K2 media (iSCSI) network require this process. Connect the PC to the control network and to the media network.

A GV STRATUS client PC on the K2 media (iSCSI) network must have at least two Ethernet 1000 Base-T network interfaces.

- Connect one network interface to the control network.
- Connect one network interface to the media network.

Set firewall for application ports

If there is a firewall between systems running client applications and those application's servers, you must configure the firewall to ensure communication between client and server.

Related Topics

[Ports and services mapping](#) on page 592

GV STRATUS application ports

Port settings must be open so that the GV STRATUS client application can connect to servers as follows:

80	Protocol: TCP. Traffic: HTTP. Used by any GV STRATUS server or MediaFrame server. Used by GV STRATUS Core Services.
443	Protocol: TCP. Used by SNFS for GUI (Java). Used by GV STRATUS applications for HTTPS secure communication with GV STRATUS core server.
445	Protocol: TCP. Used by SDB and XMOS Server and NAS. Used by SiteConfig. File and printer sharing. Used by CIFS/SMB. Used by GV STRATUS Proxy Storage System. GV STRATUS clients and K2 Summit systems need access to shared folder for import and export.
2000	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.

2001	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
2002	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for Enco Audio Server, load and playback of audio media.
2003	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3000	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3001	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3838	Protocol: TCP. Used by GV STRATUS Ingest services. Used by GV STRATUS Ingest DB Management Service. Used by GV STRATUS Core Server.
3839	Protocol: TCP. Used by GV STRATUS Ingest services. Used by GV STRATUS Core Server.
7144	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Router Config service for configuration. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.
7145	Protocol: TCP. Traffic: HTTP. Used by router config data service. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.
7213	Protocol: TCP. Used by GV STRATUS Router Controller service. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.
8000 - 8032	Protocol: TCP. Traffic: HTTP. Port 8000 used as follows: GV STRATUS Common Services, including preferences, licensing, authorization; Proxy config, Web Monitor data service; Ignite for Radamec SCP and Shotoku, IP to 422 Serial Communication (Camera Preset Recall). Ports 8000 to 8032 used by Ignite as follows: Digicart, IP to 422 Serial Communication; MDS-B5 and MDS-E11, IP to 422 Serial Communication (Audio Deck Control); Chyron Aprisa SSX, Chyron Duet, Inscrubber MOS, and Multi Deko, IP to 232 Serial Communication (CG Graphic Load and Playout); GV Cameraman, IP to 232 Serial Communication (Camera Preset Recall); Under Monitor Display, IP to 422 Serial Communication (Sends Clip +/- time to external device); CalrecMixer, IP to 422 or 232 Serial Communication (Audio Mixer Control); VCR (BVW), IP to 422 Serial Communication (Deck Control); VDCP, IP to 422 Serial Communication (Deck/Video Server Control). Ports 8000 - 8032 used by Control Devicemaster RTS. Used by GV STRATUS Core Server.
8080	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Summit Services. Used by WCF service provided by the GV STRATUS Workflow Engine. Used by WCF service provided by the GV STRATUS Rules Engine. Used by standalone K2 Summit system and by K2 Media Server with role of media file system manager.
8511	Protocol: TCP. Traffic: HTTP. Used by playout config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8732	Protocol: TCP. Traffic: HTTP. Used by Site Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8733	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.

8734	Protocol: TCP. Traffic: HTTP. Used by Site Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8735	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8736	Protocol: TCP. Used by GV STRATUS Control Panel Services for third-party storage configuration.
8737	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Ingest Config service for configuration. Used by GV STRATUS Control Panel Services for K2 Remote storage configuration. Used by GV STRATUS Core Server.
8740	Protocol: TCP. Traffic: HTTP. Used by general config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8742	Protocol: TCP. Traffic: HTTP. Used by Send destination config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8744	Protocol: TCP. Traffic: HTTP. Used by RMI config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
31820	Protocol: UDP. Used for live streaming from K2 Summit/Solo systems. This is the default base for UDP ports, with the range being 31820 to 31827. Other ranges are possible, depending on the UDP port base configured on the K2 Summit/Solo system. Used by standalone K2 Summit system and by K2 Media Server.

GV STRATUS Control Panel application ports

Port settings must be open so that the GV STRATUS Control Panel application can connect to servers as follows:

80	Protocol: TCP. Traffic: HTTP. Used by any GV STRATUS server or MediaFrame server. Used by config service for an GV STRATUS Core Server: Express; Core; Conform; Proxy Encoder; Transcode Engine; Workflow. Used by GV STRATUS Core Services. Used by standalone K2 Summit system and by K2 Media Server with role of media file system manager. Used by K2Config.
443	Protocol: TCP. Used by SNFS for GUI (Java). Used by GV STRATUS applications for HTTPS secure communication with GV STRATUS core server.
1433	TCP: Used by DSM. Used by GV STRATUS Core Services. Connection to SQL database. Used by GV STRATUS Core Server.
3838	Protocol: TCP. Used by GV STRATUS Ingest services. Used by GV STRATUS Ingest DB Management Service. Used by GV STRATUS Core Server.
3839	Protocol: TCP. Used by GV STRATUS Ingest services. Used by GV STRATUS Core Server.
7144	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Router Config service for configuration. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.
7145	Protocol: TCP. Traffic: HTTP. Used by router config data service. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.
7213	Protocol: TCP. Used by GV STRATUS Router Controller service. Used by GV STRATUS Ingest Services. Used by GV STRATUS Core Server.

8511	Protocol: TCP. Traffic: HTTP. Used by playout config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8732	Protocol: TCP. Traffic: HTTP. Used by Site Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8733	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8734	Protocol: TCP. Traffic: HTTP. Used by Site Config data service . Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8735	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8736	Protocol: TCP. Used by GV STRATUS Control Panel Services for third-party storage configuration.
8737	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Ingest Config service for configuration. Used by GV STRATUS Control Panel Services for K2 Remote storage configuration. Used by GV STRATUS Core Server.
8740	Protocol: TCP. Traffic: HTTP. Used by general config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8742	Protocol: TCP. Traffic: HTTP. Used by Send destination config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.
8744	Protocol: TCP. Traffic: HTTP. Used by RMI config data service. Used by GV STRATUS Control Panel Services. Used by GV STRATUS Core Server.

GV STRATUS Rundown application ports

Port settings must be open so that the GV STRATUS Rundown client application can connect to servers as follows:

443	Protocol: TCP. Used by SNFS for GUI (Java). Used by GV STRATUS applications for HTTPS secure communication with GV STRATUS core server.
2000	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
2001	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
2002	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for Enco Audio Server, load and playback of audio media.
2003	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3000	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3001	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3811	Protocol: TCP. Used by Grass Valley AppService for 3rd party applications to communicate using AMP protocol. Used by SDB Server and GV STRATUS

Rundown outgoing AMP communication to control playout channels. Used by Ignite for AMP, Video Server Control. Used by K2 Summit systems for playout.

Install/configure for SiteConfig support on client PC

All systems require this process. Prepare each GV STRATUS client PC so that it can be managed by SiteConfig.

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

Related Topics

[About GV STRATUS client PCs](#) on page 348

Installing and configuring SiteConfig support for client PCs on corporate LAN

Before installing software, make sure the client PC meets system requirements, especially regarding Windows operating system and .NET version.

Use this topic to install software (if necessary) and configure PCs that are on the corporate LAN to prepare them for SiteConfig software deployment. This topic does not prepare the PC for SiteConfig network configuration, which requires that the SiteConfig Discovery Agent be installed. Since IT policies at many customer site's prohibit installation of software such as the SiteConfig Discovery Agent on corporate LAN PCs, this topic prepares the PC for software deployment only, without installing the Discovery Agent.

1. On the PC that hosts the SiteConfig application, navigate to the directory at which SiteConfig is installed.

By default the location is *C:\Program Files (x86)\Grass Valley\SiteConfig*.

2. Copy the contents of the *ConnectivityKit* directory to a USB thumb drive, network drive, or some other shared location to make it easier to distribute to each corporate LAN PC.

3. To install and configure SiteConfig support locally at a corporate LAN PC, do the following:
 - a) Copy the contents of the *ConnectivityKit* directory to the corporate LAN PC.
 - b) On the corporate LAN PC, run `\Connectivity Kit\setup.exe`.
If necessary, .NET software is installed.
 - c) Open firewall port settings on the PC as follows.

445	Protocol: TCP. Used by SDB and XMOS Server and NAS. Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
3389	TCP: Used by Remote Desktop for use by SiteConfig.
18262	TCP: Used by GV ProductFrame Configuration Service, ProductFrame Discovery Agent Service for use by SiteConfig. Used by GV NetConfig Service. gv-pf. UDP: Used by GV NetConfig Service. gv-pf.
18263	UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Device Broadcast/Unicast Protocol. Used by SiteConfig. Sent by ControlPoint, received by Devices
18264	UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Controller Protocol. Used by SiteConfig. Sent by Devices, received by ControlPoint
49168	HTTP/TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for most functions.
49169	TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for a few functions that require longer time periods.
 - d) Restart the corporate LAN PC.

The corporate LAN PC is now prepared for SiteConfig software deployment.

Next, test access to proxy location.

Related Topics

[*System requirements for GV STRATUS client PC*](#) on page 43

Test access to proxy location

Do this test from a GV STRATUS client PC. This test does not require the GV STRATUS application to be installed on the client PC.

1. In a browser, enter the proxy URL and then press **Enter**.

For example, if the computer that hosts the HTTP server is named *STRATUS-CS-Proxy*, the URL is as follows:

`http://STRATUS-CS-Proxy/proxy`

2. A browser window should open to the proxy directory.

This indicates that the proxy location is available from the HTTP server and that the GV STRATUS credentials are correct.

Installing and configuring SiteConfig support for client PCs on control network

Before installing software, make sure the client PC meets system requirements, especially regarding Windows operating system and .NET version.

Use this topic to install software and configure PCs that are on the control network to prepare them for SiteConfig discovery, network configuration, and software deployment. This requires that the SiteConfig Discovery Agent be installed. You do this locally at each PC on the control network.

1. On the PC that hosts the SiteConfig application, navigate to the directory at which SiteConfig is installed.

By default the location is *C:\Program Files (x86)\Grass Valley\SiteConfig*.

2. Copy the contents of the *ConnectivityKit* directory and the *DiscoveryAgent Setup* directory to a USB thumb drive, network drive, or some other shared location to make it easier to distribute to each PC.

3. To install and configure SiteConfig support locally at a control network PC, do the following:
 - a) Copy the contents of the *ConnectivityKit* directory and the *DiscoveryAgent Setup* directory to the control network PC.
 - b) On the control network PC, check the Microsoft .NET Framework version and compare to system requirements for the software you intend to deploy with SiteConfig.
 - c) If necessary, install .NET software and the required Windows update.
You can find the installation file for a .NET version in the *ConnectivityKit* directory.
 - d) On the control network PC, run `\DiscoveryAgent Setup\setup.exe`.
The install wizard opens.
 - e) Work through the install wizard and when prompted to select the device type, select **GenericDevice**.
 - f) Finish the install wizard.
 - g) Open firewall port settings on the PC as follows.

445	Protocol: TCP. Used by SDB and XMOS Server and NAS. Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
3389	TCP: Used by Remote Desktop for use by SiteConfig.
18262	TCP: Used by GV ProductFrame Configuration Service, ProductFrame Discovery Agent Service for use by SiteConfig. Used by GV NetConfig Service. gv-pf. UDP: Used by GV NetConfig Service. gv-pf.
18263	UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Device Broadcast/Unicast Protocol. Used by SiteConfig. Sent by ControlPoint, received by Devices
18264	UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Controller Protocol. Used by SiteConfig. Sent by Devices, received by ControlPoint
49168	HTTP/TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for most functions.
49169	TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for a few functions that require longer time periods.
 - h) Restart the control network PC.

The control network PC is now prepared for SiteConfig discovery, network configuration, and software deployment.

Next, add client PCs as placeholder devices to the SiteConfig system description.

Related Topics

[*System requirements for GV STRATUS client PC*](#) on page 43

SiteConfig network setup for corporate LAN

Only systems with GV STRATUS client PCs on the corporate LAN require this process. Add the corporate LAN to the SiteConfig system description.

1. Open the SiteConfig application.
2. In the **Network Configuration | Networks** tree view, select a System node or a Site node.
The networks under that node are displayed in the list view.
3. If the corporate LAN is not already in the system description, proceed as follows:
 - To add a network under the currently selected node, in the tree view right-click the node and select **Add Network**.

The Network Settings dialog box opens.

4. Configure the settings for the network as follows:
 - Type – Ethernet
 - Usage – Control
 - Redundancy – None
 - Name – Enter a name to identify the network in the system description
 - Exclude from Host Files – Select the checkbox
 - Unmanaged – Select this option, then select DNS and select the checkbox for IP Address Allocation via DHCP.
 - Base IP Address – Do not configure
 - Number of IP Addresses – Do not configure
 - Subnet Mask – Do not configure
 - DNS Servers – Servers providing DNS for name resolution. These DNS server can be for both managed and unmanaged networks.
 - Default Interface Name Suffix – The suffix added to the end of host names to identify interfaces on this network.
5. Click **OK** to save settings and close.
6. If you added a network, it appears in the **Network Configuration | Networks** tree view at the bottom of the list.

Related Topics

[About the corporate LAN and SiteConfig](#) on page 370

[About software deployment on the corporate LAN](#) on page 371

[Corporate LAN network description](#) on page 346

SiteConfig placeholder setup for client PC

All systems require this process. Add client PCs as placeholder devices to the SiteConfig system description.

Adding a GV STRATUS client PC to the system description

- The system description must contain a group.
1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
The Add Device dialog box opens.
 2. Configure settings for the device you are adding as follows:
 - Family – Select **GV STRATUS**.
 - Type – Select **GV STRATUS Client**.
 - Model – Select one of the following:
 - If the PC is connected to the corporate LAN or to the control network only, select **GV STRATUS PC**.
 - If the PC is connected to the control network and to the K2 media (iSCSI) network for access to high-resolution assets, select **GV STRATUS PC - SAN Client**.
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount – You can add multiple devices, as currently defined by your settings in the Add Device dialog box. An enumerator is added to the name to create a unique name for each device added.
 - Platform – Select **x86** for 32-bit operating system or **x64** for 64-bit operating system.
 - Control network – Select **Corporate LAN** or **Control**, as appropriate for the PC's network connection.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.
 3. Click **OK** to save settings and close.
 4. Repeat these steps for each of your devices.
 5. If the PC is on the control network, verify that unmanaged control network interfaces are configured correctly and modify if necessary.

Related Topics

[Modifying unassigned \(unmanaged\) control network interface](#) on page 417

Set credentials

- The default credentials SiteConfig uses to access devices must be known.

- The credentials required to access your site's devices must be known.
- 1. At each local device, view the Windows administrator user account and verify that the credentials are the same as those that SiteConfig uses to access the device.
- 2. If necessary, change credentials so they match on the device and in SiteConfig, using one of the following methods:
 - Change the device's credentials to match the credentials that SiteConfig uses to access the device. This is recommended for K2, and GV STRATUS devices.
 - If your security policies prohibit changing the device's credentials, such as on PCs on the corporate LAN, in SiteConfig change the credentials that SiteConfig uses to access the device.

Related Topics

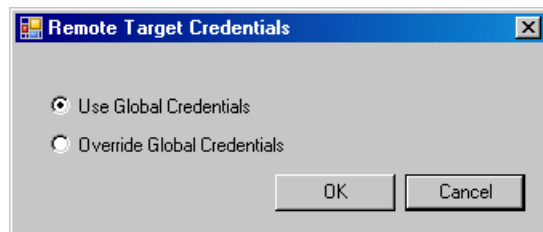
[Changing passwords](#) on page 587

Setting credentials for a specific device

For GV STRATUS client PCs on the corporate LAN, override global credentials so that SiteConfig has access to the PC for software deployment.

1. In the tree view, right-click a device and select **Credentials**.

The Remote Target Credentials dialog box opens.



2. Proceed as follows:
 - If you previously applied credentials to the device that were different than the global credentials and now you want to apply the global device type credentials, select **Use Global Credentials**.
 - If you want to apply credentials to the device that are different than the device-type credentials, select **Override Global Credentials**.

The Set Device Logon Credentials dialog box opens.

3. Enter the user name and password for the device and click **OK**. To test the credentials, right-click on the device and choose **Remote Desktop** to start a session to the device.

SiteConfig corporate LAN setup for client PC

Only systems with GV STRATUS client PCs on the corporate LAN require this process. Establish communication between SiteConfig and corporate LAN PCs without using device discovery.

Adding GV STRATUS client PCs on corporate LAN for software deployment

Only systems with GV STRATUS client PCs on the corporate LAN require this process. Establish communication between SiteConfig and corporate LAN PCs without using device discovery.

If you have PCs on the corporate LAN, use this topic to get the PCs communicating with SiteConfig in order to support software deployment. Do not attempt to use device discovery.

1. Select the placeholder device for the corporate LAN PC.
2. In the interfaces list view, right-click an interface and select **Edit**.
The Unmanaged Network Interface Details dialog box opens.
3. Configure the settings for the interface as follows:
 - Network – Select the corporate LAN. This is an unmanaged network, which can use DHCP or an external hosts file.
 - IP Address – Make no selection.
 - DNS Suffix – For communication on some networks, a suffix, such as *mycorp.com*, must be added to host names.
 - Remaining settings are irrelevant, as SiteConfig does not manage this device's network.
4. Configure for the device name as follows:
 - a) In the tree-view select the placeholder device.
 - b) In the Device list view right-click the device and select **Edit**.
The Edit Device dialog box opens.
 - c) Edit the hostname.
 - d) If using DHCP, specify a domain name.
 - e) Click OK to save settings and close.
5. Click **OK** to save settings and close.
6. From the PC the hosts SiteConfig, ping the corporate LAN PC to verify communication.

Pinging devices from the PC that hosts SiteConfig

- The devices you are pinging must be in the SiteConfig system description.

You can send the ping command to one or more devices in the system description over the network to which the SiteConfig host PC is connected. Typically this is the control network.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. In the Devices list view, select one or more devices. Use Ctrl + Click or Shift + Click to select multiple devices.
3. Right-click the selected device or devices and select **Ping**.

The Ping Devices dialog box opens and lists the selected device or devices.


The Ping Devices dialog box reports the progress and results of the ping command per device.

SiteConfig control network setup for client PC

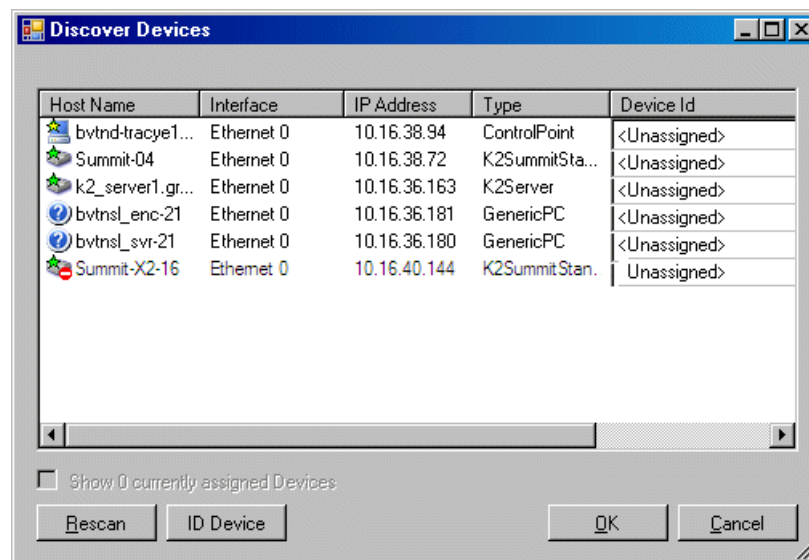
Only systems with GV STRATUS client PCs on the control network require this process. Add client PCs to SiteConfig using device discovery.

Discovering devices with SiteConfig

- The Ethernet switch or switches that support the control network must be configured and operational. If multiple switches, ISLs are connected and trunks configured.
- The PC that hosts SiteConfig must be communicating on the control network.
- There must be no routers between the PC that hosts SiteConfig and the devices to be discovered.
- Devices to be discovered must be Windows operating system devices, with SiteConfig support installed.
- Devices must be cabled for control network connections.
- If discovering a device with Microsoft Windows Server 2008 operating system, the device must have an IP address, either static or DHCP supplied.

1. Open SiteConfig.
2. In the toolbar, click the discover devices button. 

The Discover Devices dialog box opens.




A list of discovered devices is displayed.

3. Click **Rescan** to re-run the discovery mechanism. You can do this if a device that you want to discover has its network connection restored or otherwise becomes available. Additional devices discovered are added to the list.

Assigning discovered devices

- Devices must be discovered by SiteConfig

- Discovered devices must not yet be assigned to a device in the system description
 - The system description must have placeholder devices to which to assign the discovered devices.
1. If the Discovered Devices Dialog box is not already open, click the discover devices button . The Discover Devices dialog box opens.
 2. Identify discovered devices.
 - If a single device is discovered in multiple rows, it means the device has multiple network interfaces. Choose the interface that represents the device's currently connected control connection. This is typically Ethernet ... 0.
 - If necessary, select a device in the list and click **ID Device**. This triggers an action on the device, such as flashing an LED or ejecting a CD drive, to identify the device.
 3. To also view previously discovered devices that have already been assigned to a device in the system description, select **Show ... currently assigned devices**.

The currently assigned devices are added to the list. Viewing both assigned and unassigned devices in this way can be helpful to verify the match between discovered devices and placeholder devices.
 4. In the row for each discovered device, view items on the Device Id drop-down list to determine the match with placeholder devices, as follows:
 - If SiteConfig finds a match between the device-type discovered and the device-type of one or more placeholder devices, it displays those placeholder devices in the list.
 - If SiteConfig does not find a match between the device-type discovered and the device-type of a placeholder device, no placeholder device is displayed in the list.
 5. In the row for a discovered device, click the Device Id drop-down list and select the placeholder device that corresponds to the discovered device.

If there is no corresponding placeholder device currently in the system description, you can select **Add** to create a new placeholder device and then assign the discovered device to it.
 6. When discovered devices have been assigned, click **OK** to save settings and close.
 7. In the **Network Configuration | Devices** tree view, select each of the devices to which you assigned a discovered device.

Modifying managed control network interface

- The physical device you are configuring must be discovered and must be assigned to a device in the SiteConfig system description.
- SiteConfig must have communication with the device.

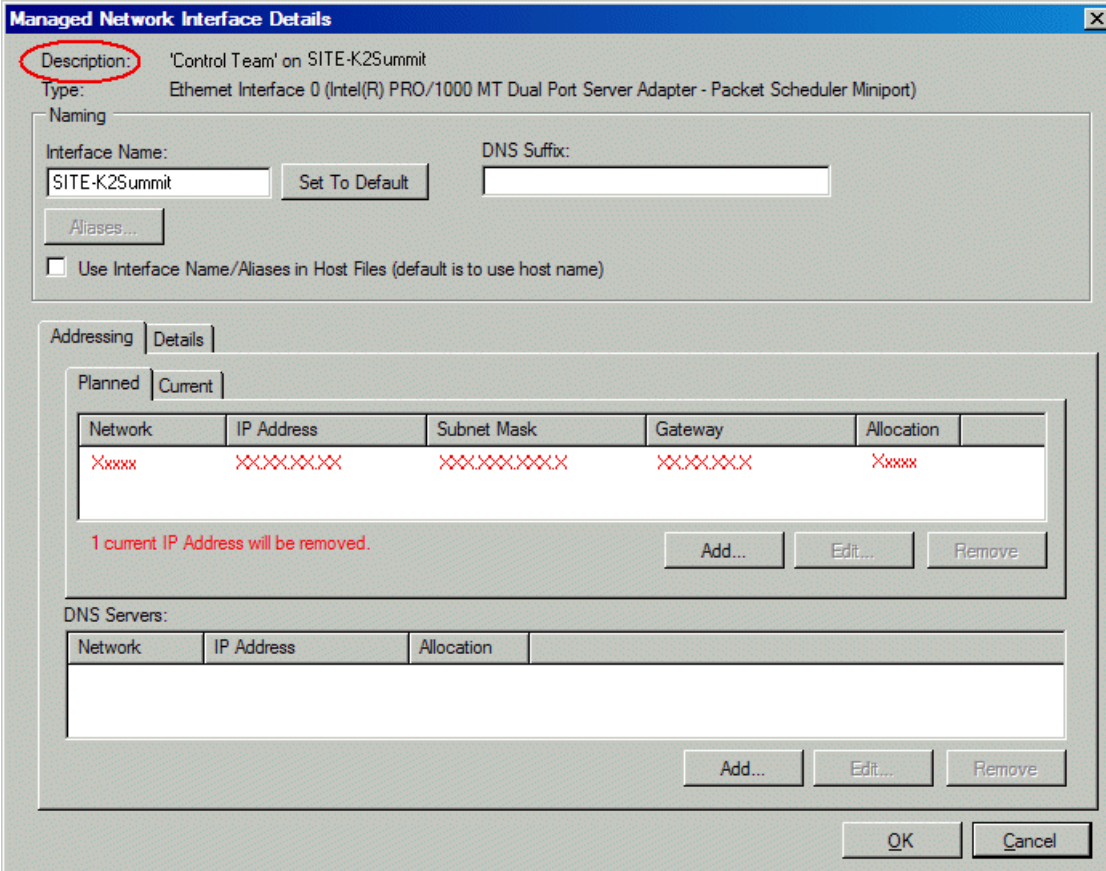
- The device must be defined in the system description with an appropriate network interface.

Use this task to modify managed the control network interface on a GV STRATUS Client PC:

1. In the Interfaces list view determine the interface to configure, as follows:
 - Identify the interface with which SiteConfig is currently communicating, indicated by the green star overlay icon. This should be the control network interface.
 - Verify that the interface over which SiteConfig is currently communicating is in fact the interface defined for the control network in the system description. If this is not the case, you might have the control network cable connected to the wrong interface port. The control connection should always be the first port on the motherboard, except when you have a loopback connection.
 - Configure the control network interface first before configuring any of the other interfaces.
 - A device can have multiple network interfaces that are not connected and are not required for system functionality. Give these interfaces a name such as "Unused" to aid identification.
2. In the Interfaces list view, check the icon for the interface you are configuring.

If the icon has a red stop sign overlay, it indicates that current settings and planned settings do not match or that there is some other problem. Hover over the icon to read a tooltip with information about the problem.

3. In the Interfaces list view, right-click the control network interface and select **Edit**.
The Managed Network Interface Details dialog box opens.



The dialog box is titled "Managed Network Interface Details". It contains the following sections:

- Description:** 'Control Team' on SITE-K2Summit (circled in red)
- Type:** Ethernet Interface 0 (Intel(R) PRO/1000 MT Dual Port Server Adapter - Packet Scheduler Miniport)
- Naming:**
 - Interface Name:** SITE-K2Summit (with a "Set To Default" button)
 - DNS Suffix:** (empty text box)
 - Aliases...** (button)
 - ☐ Use Interface Name/Aliases in Host Files (default is to use host name)
- Addressing:**
 - Planned:** (selected tab)
 - Current:** (tab)
 - | Network | IP Address | Subnet Mask | Gateway | Allocation |
|---------|------------|-------------|----------|------------|
| XXXXX | XXXXXXXX | XXXXXXXXXX | XXXXXXXX | XXXXX |

1 current IP Address will be removed.

Add... Edit... Remove
 - DNS Servers:**

Network	IP Address	Allocation
---------	------------	------------

Add... Edit... Remove
- Buttons:** OK, Cancel

4. Identify the interface on the discovered device that you are configuring.
 - Identify Ethernet LAN adapters by their "Description" name. This is the Windows connection name. SiteConfig reads this name from the device and displays it at the top of this dialog box. This is the most accurate way to identify the network adapter on the discovered device that you are configuring.

Make sure you are configuring the control network interface.

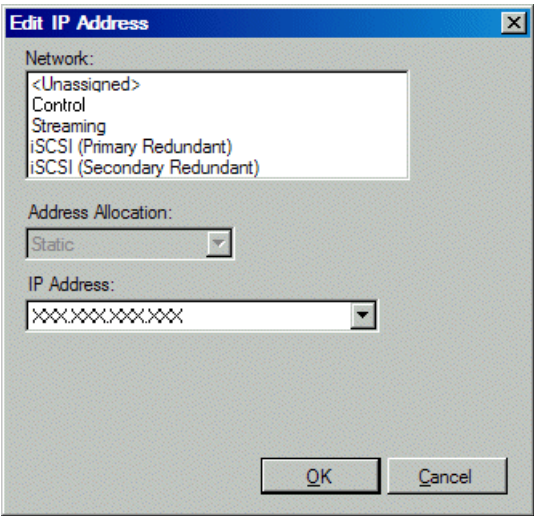
5. Configure naming settings as follows:

Setting...	For network interface Network Connection
Interface Name	The device host name. Required.
Set To Default	Not recommended
DNS Suffix	Allowed, if applicable to the network. The DNS suffix is added to the interface name.
Aliases	Not allowed
Use Interface Name/Aliases in Host Files	<i>Unselected</i> is required. Since not selected, the default behavior occurs, which is to use the device host name in the hosts file.

6. Evaluate settings on the Planned tab and change if necessary.
- Compare settings on the Planned tab with settings on the Current tab.
 - If you want to keep the current settings as reported in the Current tab, click **Remove** to remove the planned settings.
 - Do not specify multiple IP addresses for the same interface. Do not use the Add button.

- 7. To modify planned settings, do the following:
 - a) Select the network settings and click **Edit**.

The Edit IP Address dialog box opens.



- b) Edit IP address settings as follows:

Setting...	For network interface Network Connection
Network	<i>Control</i> is required
Address Allocation	<i>Static</i> is recommended.
IP Address	The IP address for this interface on the network. Required.

The networks listed in the Edit IP Address dialog box are those currently defined in the system description, with available settings restricted according to the network definition. If you require settings that are not available, you can close dialog boxes and go to the **Network Configuration | Networks** tab to modify network settings, then return to the Edit IP Address dialog box to continue.

- 8. When you have verified that the planned settings are correct, click **OK**, then **Yes** to apply settings to the device and close.
A Contacting Device message box reports progress.

9. After configuring control network settings, do the following

- a) If a message informs you of a possible loss of communication, click **OK**.

This message is normal, since this is the network over which you are currently communicating.

- b) In the Device list view, observe the device icon and wait until the icon displays the green star overlay before proceeding.

The icon might not display the green star overlay for several seconds as settings are reconfigured and communication is re-established.

- c) In the Interface list view, right-click the interface and select **Ping**.

The Ping Host dialog box opens.

If ping status reports success, the interface is communicating on the control network.

Making the host name the same as the device name

1. Verify that the current device name, as displayed in the SiteConfig tree view, is the same as your desired host name.
2. In the **Network Configuration | Devices | Device** list view, right-click the device and select **Edit**.
The Edit Device dialog box opens.
3. Identify the state of buttons as follows:
 - If the host name is different than the device name, the **Set to Device Name** button is enabled.
 - If the host name is the same as the device name, the **Set to Device Name** button is disabled.
4. If enabled, click **Set to Device Name**.
This changes the host name to be the same as the device name.
5. Click **OK**.
6. When prompted, restart the device.

Pinging devices from the PC that hosts SiteConfig

- The devices you are pinging must be in the SiteConfig system description.

You can send the ping command to one or more devices in the system description over the network to which the SiteConfig host PC is connected. Typically this is the control network.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. In the Devices list view, select one or more devices. Use Ctrl + Click or Shift + Click to select multiple devices.
3. Right-click the selected device or devices and select **Ping**.

The Ping Devices dialog box opens and lists the selected device or devices.

The Ping Devices dialog box reports the progress and results of the ping command per device.

Verify credentials

- The device you are verifying must be in the SiteConfig system description and must be communicating on the network.

In the SiteConfig tree-view, right-click the device and select **Remote Desktop**, then proceed as follows:

- If Remote Desktop opens without prompting you to log on, no further steps are necessary. SiteConfig credentials are set properly to allow access to the device.
- If Remote Desktop prompts you to log on, check credentials in SiteConfig and on the device and reconcile as necessary.

Related Topics

[About credentials in SiteConfig](#) on page 32

[Set credentials](#) on page 216

[Changing passwords](#) on page 587

Generating host tables using SiteConfig

- Planned control network settings must be applied to control network interfaces and devices must be communicating on the control network as defined in the system description.
- Interfaces for networks that require name resolution via the hosts file, such as the FTP/streaming network, must have settings applied and must be communicating.
- Host names defined in the system description must be correct.
- The SiteConfig PC must be added to the system description so that it is included in the host tables generated by SiteConfig.

When you add or modify devices or their IP addresses in the SiteConfig system description, you should update host tables on all devices that use them.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. Click **View Hosts file**.

A Hosts File Contents window opens that displays the contents of the hosts file as currently defined in the system description.

3. Verify the information in the hosts file.

4. Do one of the following:

- If you are managing host table information yourself, click **Save As** and save a copy of the hosts file to a location on the control point PC. Then open the copy of the hosts file, copy the desired host table information from it, and paste it into your facility hosts file as desired. Then you can use your own process to distribute the facility hosts file to devices. Remember to distribute to the control point PC so that SiteConfig and other management applications such as K2Config can resolve network host names.
- If SiteConfig is managing hosts files, do the following:

NOTE: *Writing hosts files to multiple devices consumes system resource and network bandwidth. Therefore it is recommended that you wait and do this after the system is complete and fully implemented, rather than updating hosts files incrementally as you discover/assign devices.*

- a) In the **Network Configuration | Devices | Devices** list view, right-click a device to which you intend to write the hosts file and select **View Current Host File**.
A Host File Contents window opens that displays the contents of the hosts file that is currently on that actual device.
- b) Verify that there is no information that you want to retain in the device's current hosts file that is not also in the hosts file as currently defined in the system description. If you need to save the device's current hosts file, click **Save As** and save to a different location.
- c) In the **Network Configuration | Devices | Devices** list view, right-click a device or use Ctrl + Click to select multiple devices, and select **Update Host File**.
The current hosts file is overwritten with the hosts file as defined in the system description.

Related Topics

[About hosts files and SiteConfig](#) on page 371

SiteConfig software installation for client PC

All systems require this process. Install GV STRATUS software for the first time on your GV STRATUS client PCs.

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

Related Topics

[System requirements for GV STRATUS client PC](#) on page 43

Verify software roles

All systems require this process.

Verify that the roles assigned to your GV STRATUS client PCs in SiteConfig are correct for your system design.

1. In the **Software Deployment | Devices** tree view, expand a device's node to expose the roles currently assigned to the device.
2. Identify roles as follows:
 - GV STRATUS client PCs on the corporate LAN for a proxy media workflow have the following role:
 - GV STRATUS Application
 - EDIUS (Required for EDIUS XS)
 - GV STRATUS client PCs on the control/media network for a high-resolution media workflow have the following roles:
 - GV STRATUS Application
 - StorNext File System Client
 - Generic iSCSI Client (non K2 only)

NOTE: *First install StorNext File System Client, then install Generic iSCSI Client via SiteConfig for the following:*

 - *First installation of GV STRATUS application into a system.*
 - *When there is an upgrade of the StorNext File System Client.*
 - EDIUS (Required for EDIUS Workgroup)
3. If the roles are not correct for your system design, add or remove roles accordingly.

Place GV STRATUS Client PCs into deployment group

1. Place your GV STRATUS client PCs into the GV STRATUS software deployment group.
2. Place GV STRATUS client PCs on which you intend to install EDIUS application software into an EDIUS deployment group.

Related Topics

[Configuring deployment groups](#) on page 659

Check all currently installed software on GV STRATUS devices

Check software on GV STRATUS devices.

- The device must be assigned in the SiteConfig system description and network connectivity must be present.
- SiteConfig must be able to log in to the device using the username/password credentials assigned to the device.

- The SiteConfig PC must not have a network drive mapped to an administrative share (such as C\$) on a device on which you are checking software.
- Put devices that run Embedded Security into Update Mode. Refer to the related topic on the Embedded Security one-time initial deployment process.

NOTE: *A re-image of the computer might be necessary if the Embedded Security one-time process is done incorrectly. Follow instructions carefully.*

Do the following steps on the devices on which you are installing or upgrading software.

1. In the **Software Deployment | Deployment Groups** tree view, right-click the top-most node for the group or any individual device and select **Check Software**.

NOTE: *If you have access problems, verify that the administrator account on the device has credentials as currently configured in SiteConfig.*

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

The Check Software dialog box appears. SiteConfig searches for software on the selected device or devices and gathers information. Progress is reported.

2. When the check is complete, close the Check Software dialog box.

An updated list of all currently installed software is displayed in the **Software Deployment | Devices | Installed Software** list view. If software is a SiteConfig managed software package, information is displayed in the Managed Package and Deployment Group columns.

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

[Deploy Embedded Security solution - One-time process](#)

Add software package to deployment group for GV STRATUS client PCs

- The GV STRATUS devices to which you are deploying software must have their SiteConfig roles correctly configured.
- The GV STRATUS devices to which you are deploying software must be in a deployment group.

GV STRATUS Client PC low-resolution (proxy):

- SiteConfig "Add Device":
 - Family: GV STRATUS

NOTE: *Do not select the EDIUS family.*
 - Device Type: GV STRATUS Client
 - Model: GV STRATUS PC or GV STRATUS/EDIUS PC (if using EDIUS XS)
- SiteConfig roles:
 - GV STRATUS Application
 - EDIUS (Required for EDIUS XS)

- Software packages:
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS XS)

Refer to release notes for version information.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. Click the **Add** button.

The Add Package(s) dialog box opens.
3. Do one of the following to select the software package:
 - Select from the list of packages then click **OK**.
 - Click **Browse**, browse to and select the package, then click **Open**.
4. If one or more EULAs are displayed, accept them to proceed. If you do not accept a EULA, the associated software is not assigned to the deployment group.

SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

About installing the GV STRATUS application

Use SiteConfig to deploy the GV STRATUS application software to all your GV STRATUS client PCs.

When you use SiteConfig to deploy the GV STRATUS application, SiteConfig configures the GV STRATUS Control Panel Host on each GV STRATUS client PC, providing the following prerequisites are in place:

- In the SiteConfig application, in **Tools | Options | Network Configuration**, the GV STRATUS Control Panel Services Host must be correctly configured.
- In the SiteConfig system description, the GV STRATUS client PC must have the role of GV STRATUS Application.

Installing GV STRATUS application with SiteConfig

- The devices to which you are installing software must be in a deployment group.
- For the software you are installing, the managed package must be added to the deployment group.
- The SiteConfig "Check Software" operation must have been recently done on the devices to which you are installing software.
- The PCs to which you are installing the GV STRATUS application meet GV STRATUS client system requirements, such as the Microsoft .NET Framework.
- The PCs to which you are installing the GV STRATUS application have the SiteConfig role of GV STRATUS Application and if high-resolution clients also the role of StorNext file system client.

- You have added *GrassValley_STRATUSClient_x.x.x.cab* to the deployment group. This system cab file contains all the cab files required for both proxy clients and high-resolution clients. Refer to release notes for version information.
1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are installing software. You can select a Device node, a Deployment Group node, or the All Deployment Groups node.
The corresponding software deployment tasks are displayed in the Tasks list view.
 2. Identify one or more deployment tasks listed as "Install" in the Action column.
 3. Select the **Deploy** check box in the row for the install task for installing software that is not EDIUS software. If you want to install EDIUS software, select the appropriate check box.
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
 4. Before starting the deployment session, verify the following for the installation deployment tasks:
 - The Deploy checkbox is selected.
 - The software package is the correct version.
 - The Action column reports Install.
 - The Status column indicates the planned icon.
 - The Details column does not indicate that deployment options are required.
 5. Click the **Start Deployment** button.
Deployment tasks run and software is installed. Progress is reported in both the Status and Details columns.
***NOTE:** If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
 6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Installing EDIUS software with SiteConfig

- The devices to which you are installing software must be in a deployment group.
- For the software you are installing, the managed package must be added to the deployment group.
- The SiteConfig "Check Software" operation must have been recently done on the devices to which you are installing software.
- If installing to an EDIUS Workgroup client PC on which you have previously installed EDIUS manually (not with SiteConfig), EDIUS Workgroup and supporting software must first be uninstalled manually, before attempting to install with SiteConfig.
- The PCs to which you are installing the EDIUS application must have the SiteConfig role of EDIUS Application and if EDIUS Workgroup also the role of StorNext file system client.
- GV STRATUS client cab file and/or EDIUS XRE cab file must be added to the EDIUS deployment group. This system cab file contains all the cab files required for both proxy clients and high-resolution clients. Refer to release notes for version information.
- Windows High Priority updates are required and must be installed. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.

NOTE: *Expect long deployment times when installing Render Engine and EDIUS software. EDIUS software and Render Engine software can take several minutes to install. Allow the installation to complete. Do not attempt to stop the installation.*

1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are installing software. You can select a Device node, a Deployment Group node, or the All Deployment Groups node.

The corresponding software deployment tasks are displayed in the Tasks list view.

2. Identify one or more deployment tasks listed as "Install" in the Action column.
3. For the software you are installing, select the **Deploy** check box in the row for the install task.
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
4. Before starting the deployment session, verify the following for the installation deployment tasks:
 - The Deploy checkbox is selected.
 - The software package is the correct version.
 - The Action column reports Install.
 - The Status column indicates the planned icon.
 - The Details column does not indicate that deployment options are required.

5. Click the **Start Deployment** button.

Deployment tasks run and software is installed. Progress is reported in both the Status and Details columns.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Related Topics

[If you have trouble launching EDIUS XS](#) on page 124

[Uninstall EDIUS Workgroup and supporting software](#) on page 107

Access K2 storage for EDIUS using standard convention

EDIUS components require access to K2 storage. This access can be configured several ways, but problems can arise when different conventions are used. To reduce potential problems and make troubleshooting easier, use the same convention for all EDIUS devices and components. For example, with UNC paths, do not use a hostname for one setting and an IP address for another setting. This includes settings for EDIUS XRE Server, EDIUS XS, and EDIUS Workgroup.

The following types of access are used by EDIUS components to access K2 storage:

- **Shared EDIUS projects folder:** The device hosting EDIUS components uses a UNC path to access the EDIUS projects folder. The folder must be shared to allow access by the EDIUS device, but no drive mapping is required. This type of access is used by current EDIUS XS components and EDIUS Workgroup components.

- iSCSI: The device hosting EDIUS components is an iSCSI client to a K2 SAN. The entire K2 media file system, which is the V: drive, is accessible. This type of access is used by EDIUS Workgroup components and EDIUS XRE Server components.
- Mapped V: drive: The device hosting EDIUS components maps the entire K2 storage V: drive as a network drive. The V: drive must be shared to allow access by the EDIUS device. This type of access is used by previous versions of EDIUS XS components. If an EDIUS XRE Server is not an iSCSI client, this type of access can be used by EDIUS XRE Server components.

For the EDIUS XS version released for compatibility with GV STRATUS 2.8 and higher, EDIUS XS client PCs require a shared EDIUS projects folder. For the EDIUS XS version released for compatibility with GV STRATUS 2.7.x, EDIUS XS client PCs require a mapped V: drive. If you want to keep EDIUS XS projects created with the GV STRATUS 2.7.x version, you must retain the mapped V: drive, even if you upgrade your EDIUS XS and GV STRATUS software.

1. On the K2 storage system device, which is typically the K2 SAN's K2 Media Server (FSM), make sure the EDIUS projects folder is shared so that the following devices have Read/Write access:
 - EDIUS XS client PCs
 - EDIUS XRE Server
 - EDIUS Workgroup client PCs, if you have any in your system.

2. For the device that requires access to the EDIUS projects folder, such as an EDIUS XS client PC, verify UNC path access.

For example, enter the following in Windows Explorer and verify that the directory opens:

```
\\k2-san-fsm\EDIUS_Projects
```

3. For other settings to the EDIUS projects folder, use the same UNC path convention, such as `\\k2-san-fsm\EDIUS_Projects`. This includes the following settings:
 - In GV STRATUS Control Panel, the EDIUS XS default project location setting.
 - On the EDIUS XRE Server, XRE Management Server settings.
 - EDIUS Workgroup settings.

Whether typing in the path or browsing the network and selecting the folder, make sure the convention is the same for all EDIUS components.

Configure GVAdmin account

This task applies to a computer on which the following software is installed:

- GV STRATUS/EDIUS client PC
- EDIUS XRE Server
- Render Engine Server

Verify the following before doing this task:

- EDIUS or Render Engine software must be installed on the computer.

Add the internal system account, which by default is GVAdmin, to the Administrators group on the computer.

Related Topics

[GV STRATUS servers logon account](#) on page 198

Install Grass Valley Prerequisite Files on the SiteConfig PC

GV STRATUS VTR Ingest, GV STRATUS VTR Controller, and GV STRATUS Rundown share Microsoft .NET as common prerequisite software. This common software is installed with *Prerequisite Files 2.0.exe*, which is part of a separate installation package. You install this prerequisite software package on the control point PC so that when SiteConfig deploys any software that needs the prerequisite software, it uses the software installation files from the common package. This reduces the size of .cab files overall and makes software download more manageable.

1. Check release notes for the required version of prerequisite files, if any.
2. On the SiteConfig PC, open Windows Add/Remove programs and look for **Grass Valley Prerequisite Files**, then proceed as follows:
 - If the required version of prerequisite files is installed, do not proceed with this task.
 - If prerequisite files are not installed or are not at the required version, proceed with this task.
3. Procure the required prerequisite software installation file as listed in the following:

Product	Prerequisite file	Location
GV STRATUS Rundown, GV STRATUS VTR Ingest, GV STRATUS VTR Controller	GrassValley_PrerequisiteFiles_2.0.0.zip (Microsoft .NET installer)	Grass Valley website SiteConfig Application software download page.

4. On the SiteConfig PC, run the installation file. The installation program copies prerequisite files to *C:\Program Files\Grass Valley\Prerequisite Files*.

After installing prerequisite files on the SiteConfig PC, use SiteConfig and deploy software to client PCs.

Installing GV STRATUS and GV STRATUS Rundown applications with SiteConfig

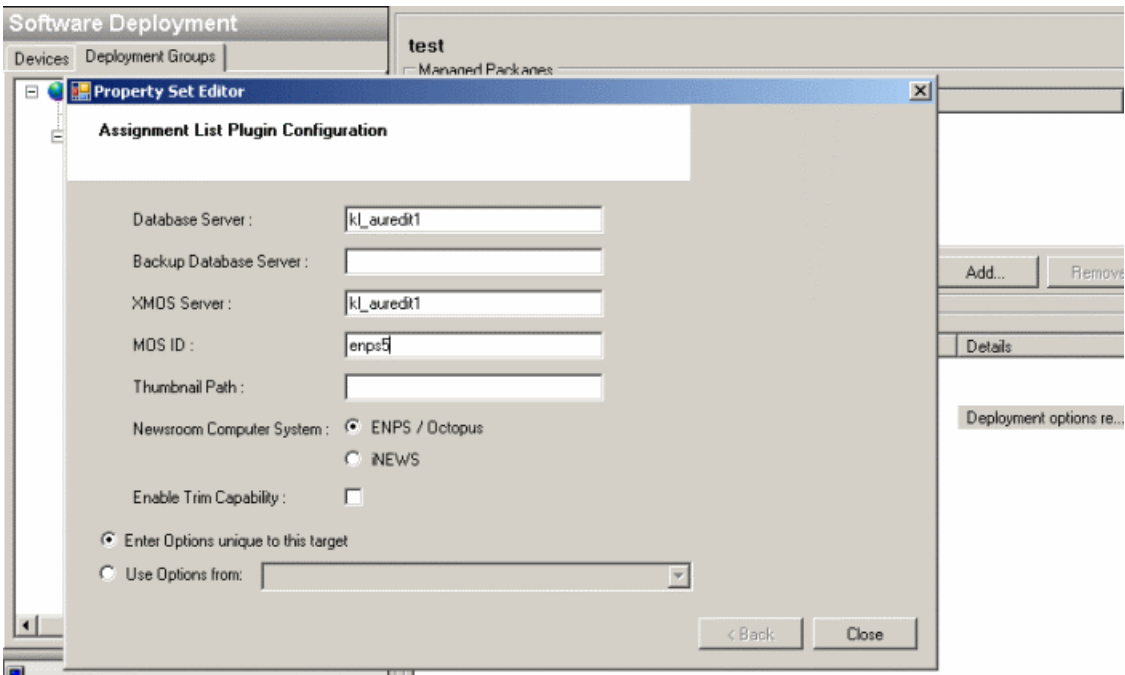
- The devices that you are upgrading must be in a deployment group.
- For the software you are upgrading, a newer version of that managed software package must be added to the deployment group.
- Grass Valley Prerequisite Files must be installed on the control point PC.
- A SiteConfig "Check Software" operation must be performed on the devices you are upgrading.
- The PCs to which you are installing the GV STRATUS application must meet GV STRATUS client system requirements, such as the Microsoft .NET Framework.
- The PCs to which you are installing the GV STRATUS application must have the SiteConfig role of GV STRATUS Application and if high-resolution clients must also have the role of StorNext file system client.
- The PCs to which you are installing the GV STRATUS Rundown application must have the SiteConfig role of GV STRATUS Rundown Application. Refer to SiteConfig Core server software install related topics in this Topic Library to install GV STRATUS Rundown server components (SDB server and XMOS server).
- *GrassValley_STRATUSClient_x.x.x.cab* must be added to the deployment group. This system cab file contains all the cab files required for both proxy clients and high-resolution clients. Refer to release notes for version information.
- *GrassValley_CoreServer_x.x.x.cab* must be added to the deployment group. Refer to release notes for version information.

- *GrassValley_K2system_x.x.x.cab* must be added to the deployment group. Refer to release notes for version information.

If you are upgrading multiple software components for which there is a required sequence, you must check and uncheck tasks and run multiple deployment sessions to control the sequence. For some software components, SiteConfig aids you by enforcing dependencies. For each individual software component, SiteConfig enforces an uninstall of the current version of software before installing the upgrade version. SiteConfig provides uninstall deployment tasks and install deployment tasks to indicate the taskflow. SiteConfig can do the uninstall/install in a single deployment session.

1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.
The corresponding software deployment tasks are displayed in the Tasks list view.
2. For the software you are deploying, select the **Deploy** check box in the row for the uninstall task.

3. For the software you are installing, select the **Deploy** check box in the row for the install task.
- If you have the Assignment List Plugin role assigned to a playout device, then you will have to set deployment options. The **Details** column will indicate **Deployment options required**.
- Click the **Deployment options required** link and a wizard page appears.



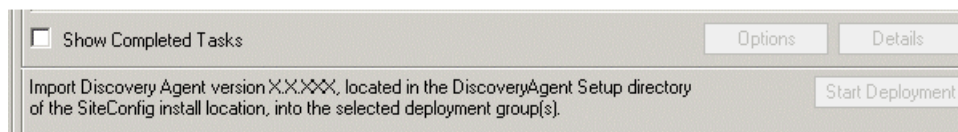
Key-in the Database Server, XMOS Server, MOS ID and select the appropriate Newsroom Computer System in your operation. Then, click **Close**.

For upgrading GV STRATUS Rundown to this release, deploy the following tasks:

Deploy	Managed Package	Action
✓	GV_STRATUS_Rundown xxxx.xxxx	Uninstall
✓	GV_STRATUS_Rundown xxxx.xxxx	Install
✓	PCmonitoring x.x.x.xx	Install

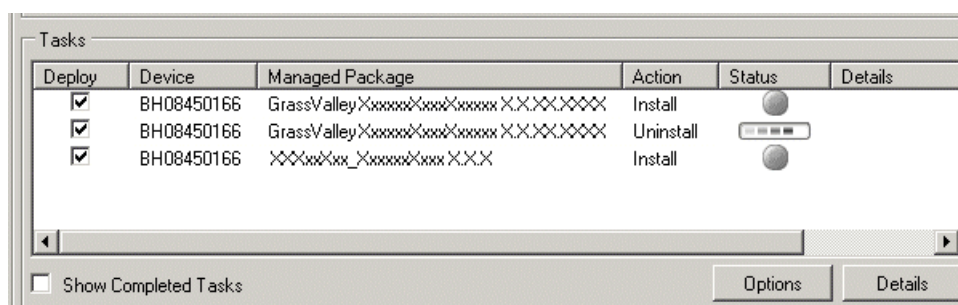
NOTE: *If there are dependencies, SiteConfig can enforce that some tasks be deployed together.*

4. Check the area next to the Start Deployment button for a message.



If a message instructs you to upgrade the Discovery Agent, on the control point PC go to the directory to which SiteConfig is installed, find the *DiscoveryAgent_x.x.x.x.cab* file, add it to the deployment group, and deploy the Discovery Agent software as well.

5. Click the **Start Deployment** button.



Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns. If an error appears regarding prerequisite software, install the Grass Valley Prerequisite Files on the control point PC and then repeat this step.

6. When the Status or Details columns indicate next steps, identify the software in the row, then do one of the following:
 - For K2 software, when Details displays a **Restart required** link (but not "Visible dialog pending..."), click the link and when prompted "...are you sure...", click **Yes**.

The device restarts. This restart is required by the GV STRATUS Rundown software uninstall.

Deployment tasks run and software is installed. Progress is reported and next steps are indicated in both the Status and Details columns.

7. When the Status or Details columns indicate next steps, identify the software in the row, then do one of the following:
 - For K2 software, when Details displays a **Restart required** link (but not "Visible dialog pending..."), click the link and when prompted "...are you sure...", click **Yes**.

The device restarts.

- Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Refer to ENPS, iNEWS or Octopus customer documentation in order to install your Newsroom Computer System.

K2Config setup for high-resolution client PC

Only systems with GV STRATUS client PCs on the K2 media (iSCSI) network require this process. Add the PCs as clients to the K2 SAN.

Work through the topics in this section sequentially to add a GV STRATUS client PC as a SAN client to your online or production K2 SAN. This gives the PC access to high-resolution assets on the K2 SAN.

K2 SAN prerequisites for adding devices

The following K2 SAN preparations are required to support adding a device to the SAN:

- All K2 Media Servers and/or K2 RAID storage devices must be installed and cabled.
- The control network must be operational with K2 devices communicating. At the command prompt, use the ping command to verify.
- The media network (non-redundant) or networks (redundant) must be operational. You can check this with the K2Config application.
- K2 RAID devices must have disks bound and be configured as required for operation on the K2 SAN.
- K2 Media Servers must be configured such that an operational media file system is present.
- K2 Ethernet switches must be configured and have V-LANs set up.
- The K2 Media Server with role of file system server must be licensed as appropriate for the design of your K2 SAN.

Verify license on K2 Media Server

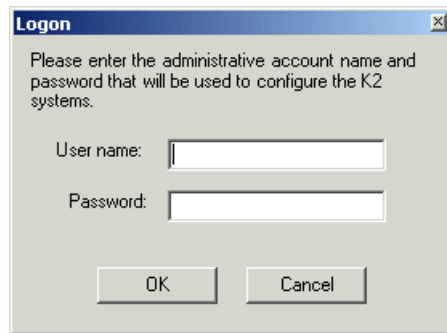
The K2 SAN license is installed on K2 Media Servers with role of iSCSI bridge. If a redundant system and/or a large system with multiple servers, the license must be installed on each K2 Media Server with role of iSCSI bridge. Use the following steps to verify the license on each K2 Media Server with role of iSCSI bridge.

1. On the K2 Media Server, open SabreTooth License Manager.
2. Verify that a license identified as K2-ISCASI-SVR is installed.

If the license for your K2 SAN license is not installed, you must install it before proceeding.

Adding a GV STRATUS client PC to a K2 SAN

1. On the PC that hosts K2Config, open the K2Config application.
A log on dialog box opens.



2. Log on to the K2Config application with the administrator account.
The K2Config application opens.
3. In the K2Config application tree view, verify that the K2 SAN has the correct number of clients, according to your system design.
If the correct number of clients is not currently added to the K2 SAN, you can add or remove clients now (before clients are configured), as follows:
 - To add a client, select the top node of the storage system and click the **Add Device** button.
The Add Device dialog box opens. Select **Generic** and then click **OK**.
 - To remove a client, select an unconfigured client and click the **Remove** button.
4. Select a client and click the **Configure** button.

The configuration wizard opens to page 1.

NOTE: *If your system has a large number of iSCSI clients, you are prompted to restart the server that has the role of SNFS file system server when you configure clients and cross the following thresholds: 64 clients; 80 clients; 96 clients.*

Next, configure the GV STRATUS client PC on the K2 SAN.

Configure page 1 - GV STRATUS client PC

Client Configuration - Page 1

Hostname

Enter the hostname or IP address of the client to configure :

Storage access

Select the method by which this client will access the shared storage :

☒ iSCSI

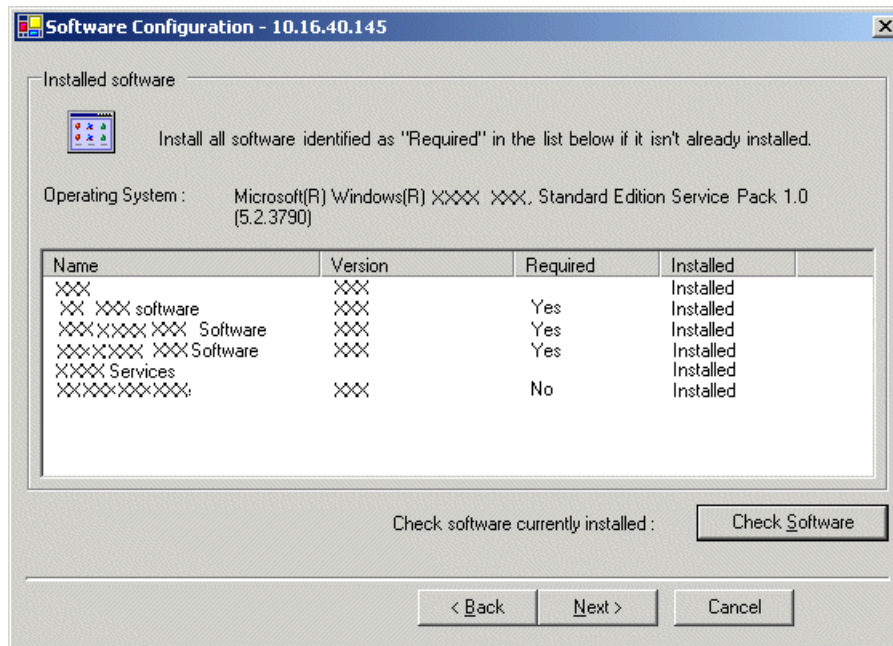
☐ Fibre Channel

< Back Next > Cancel

1. Enter the IP address or network name for a SAN client, as currently configured on the client system.
2. For the Storage Access settings, leave iSCSI selected.
3. Click **Next**.

The Software Configuration page opens.

Configure Software Configuration page - GV STRATUS client PC

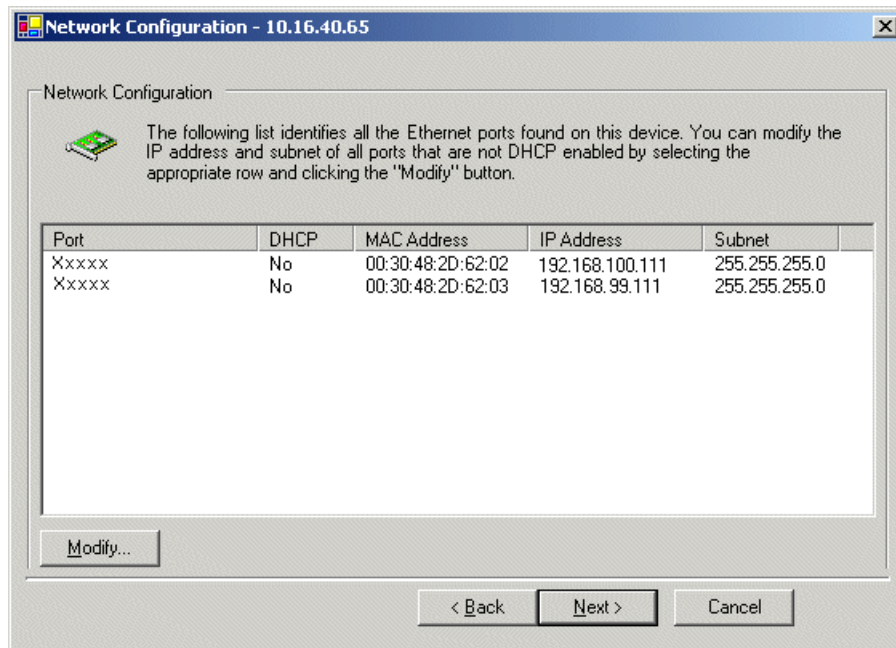


This page checks the client for required software.

1. If software with **Yes** in the Required column reports as **Not Installed**, install the software.
2. Click **Check Software**.
3. When all required software reports as **Installed**, click **Next**.

The Network Configuration page opens.

Configure Network Configuration page - GV STRATUS client PC

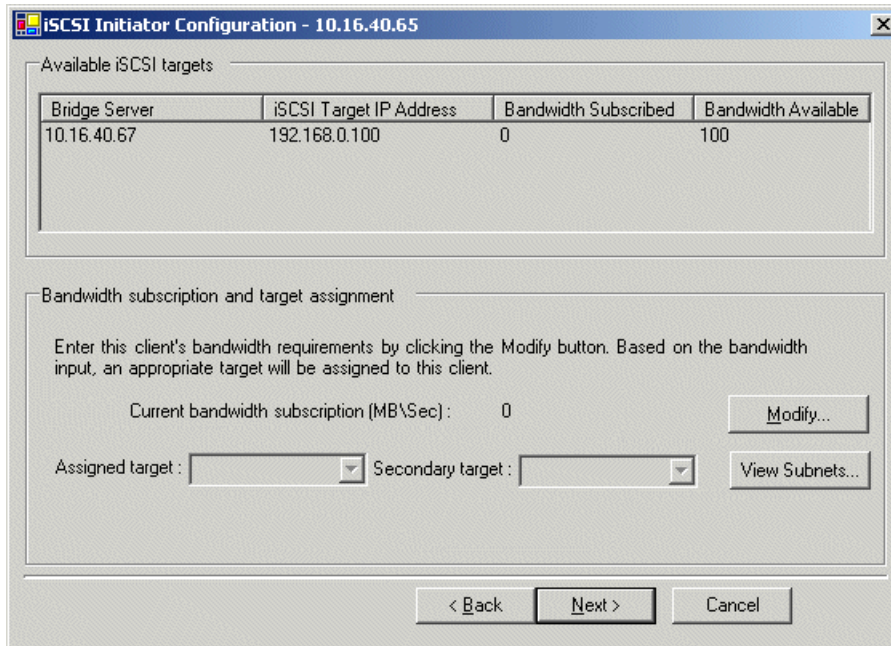


This page configures both control and media (iSCSI) network connections.

1. Verify that the top port is configured correctly.
The top port is the port over which the K2Config application is communicating. If correctly configured, it is already assigned the control network IP address, as displayed on this page.
2. Select the other connection, which should be the media (iSCSI) connection, and then click **Modify**.
A network configuration dialog box opens.
3. Verify or configure the media connection as follows:
 - Verify or enter the media network IP address. Also enter the subnet mask.
4. Click **Next**.

The File System Client Configuration page opens.

Configure iSCSI Initiator Configuration page - GV STRATUS SAN client



The dialog box titled "iSCSI Initiator Configuration - 10.16.40.65" contains two main sections. The top section, "Available iSCSI targets", features a table with the following data:

Bridge Server	iSCSI Target IP Address	Bandwidth Subscribed	Bandwidth Available
10.16.40.67	192.168.0.100	0	100

The bottom section, "Bandwidth subscription and target assignment", includes a text box with instructions: "Enter this client's bandwidth requirements by clicking the Modify button. Based on the bandwidth input, an appropriate target will be assigned to this client." Below this, there is a label "Current bandwidth subscription (MB\Sec) :" followed by a text box containing "0" and a "Modify..." button. Further down, there are two dropdown menus labeled "Assigned target :" and "Secondary target :", followed by a "View Subnets..." button. At the bottom of the dialog are three buttons: "< Back", "Next >", and "Cancel".

This page lists the iSCSI adapter on your K2 Media Server as an iSCSI target. The K2Config application subscribes the SAN client to the iSCSI target and allocates bandwidth, based on the bandwidth values that you enter. The K2Config application keeps track of each SAN client's bandwidth, and when the total amount allowed by the K2 SAN license is consumed, the K2Config application displays an informative message and then disables your ability to add more SAN clients. For large systems the K2Config application can load balance SAN clients across multiple iSCSI targets.

If a custom K2 SAN, qualified system designers can view subnets to help assign iSCSI targets.

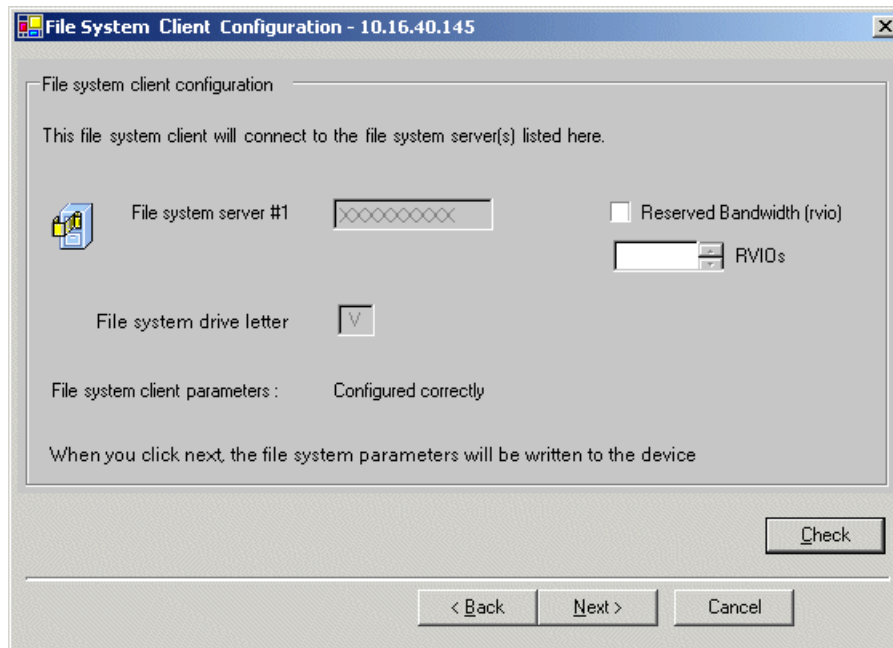
1. Click **Modify**.

The Bandwidth Input dialog box opens.

2. In the Bandwidth Input dialog box, enter the bandwidth value specified in your system design and then click **OK**.
3. Click **Next**.

The File System Client Configuration page opens.

Configure File System Client Configuration page - GV STRATUS client PC



This system does not function as a file system server. It does function as a file system client, which is validated from this page.

1. Configure **Reserved Bandwidth** settings as specified by your system design.
2. Click **Check**.
3. When the wizard reports that the configuration is correct, click **Next**.

If you get a “The V: will not be available until this device is rebooted...” message, you can safely continue now and reboot later when instructed to do so.

Set GV STRATUS client PC to high-resolution

Only systems with GV STRATUS client PCs that use a high-resolution media workflow require this process. Configure the PC in GV STRATUS Control Panel.

A GV STRATUS client PC that uses a high-resolution media workflow rather than proxy media workflow must have access to the high-resolution media. The following are examples of this high-resolution access:

- High-resolution client PC on K2 media (iSCSI) network — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via the media network to support the workflow. Two connections are required: one to the control network and one to the media network. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.

- Client PC with CIFS mount access to K2 storage — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via a CIFS mount, typically to the v: drive, to support the workflow. Two connections are required: one to the control network and one to the Grass Valley storage. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.

Use these steps to set the PC to high-resolution.

1. In GV STRATUS Control Panel, click **Core | Proxy Config | Proxy Access | Add**.
The Add Host Proxy Access dialog box opens.
2. For Hostname, select the name of the GV STRATUS client PC that you are setting to high-resolution.
3. For Access, select **Hi-Res**.
4. Click **OK** to save settings and close.

Disabling CRL setting on GV STRATUS client PC with no internet access

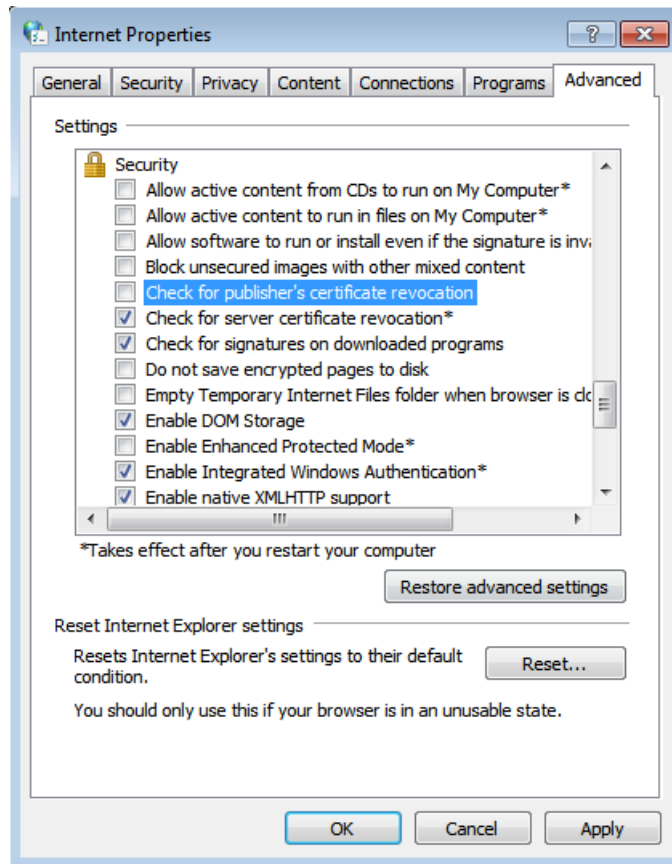
Only GV STRATUS client PCs with no internet access require this process. Configure the setting in the Windows Control Panel of GV STRATUS client PC.

The check of the Certificate Revocation List (CRL) requires an internet connection, so it must be disabled in GV STRATUS client PCs which are in a network with no internet access. This is to prevent multiple timeouts due to the CRL check, which could delay the launch of GV STRATUS application.

1. In the Windows operating system Control Panel, click **Internet Options**.

2. Select **Advanced** tab.

The **Advanced** tab displays.



3. Scroll down to the **Security** section, and disable the **Check for publisher's certificate revocation** setting.
4. Click **Apply** and **OK**.

Installing EDIUS application software without SiteConfig

- If installing to a PC on which you have previously installed EDIUS Pro (not EDIUS for STRATUS), EDIUS and supporting software must first be uninstalled before attempting to install EDIUS for STRATUS.
- The PC must meet GV STRATUS Client PC system requirements.
- Windows High Priority updates are required and must be installed. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.

The recommended process for software installation and upgrades is to use SiteConfig from a network connected control point PC and remotely deploy software. However, if SiteConfig installation is not possible, you may install manually on the local PC. Use these steps to manually install the EDIUS application.

1. Procure the following:
 - EDIUS STRATUS Standalone Installation Kit (SIK). This is a directory of files and sub-directories containing components to support the installation.

2. Copy the `EDIUS_STRATUS_SIK` directory to any location on the GV STRATUS/EDIUS client PC.
3. Open the `EDIUS_STRATUS_SIK\deliverables\Modules` directory and identify the EDIUS software cab file, if any, that is in the directory, then proceed as follows:
 - If the EDIUS software cab file is the correct version to install, skip ahead to the next step.
 - If the EDIUS software cab file is not the correct version to install, delete the file, then copy the correct cab file to the directory.
4. Open `EDIUS_STRATUS_SIK\deliverables\Setup`.
A **cmd** window opens and an **EDIUS Installer** dialog box opens and reports installation progress.
5. When prompted, restart the GV STRATUS/EDIUS client PC.

Reference to GV STRATUS Control Panel settings

Reference to settings: Required and optional

All systems require GV STRATUS Control Panel settings, as appropriate for the site's unique workflow and GV STRATUS licenses.

If you received your system pre-configured from Grass Valley, your site's settings are already configured, so the system should not need any additional settings. Otherwise, refer to topics about Control Panel settings and configure as needed.

Control Panel settings are categorized as follows:

- Required settings — These are settings that must be configured for all GV STRATUS systems, regardless of the site's unique workflow and GV STRATUS license requirements.
- Optional settings — These are settings that might or might not be necessary, depending on the site's unique workflow and GV STRATUS license requirements.

Topics about configuring required settings provide the proper sequence and specific instructions for the required settings.

Topics that reference Control Panel settings describe all settings on all Control Panel configuration pages, including both required and optional settings. Choose the optional settings that are relevant to your site's unique workflow and GV STRATUS license requirements.

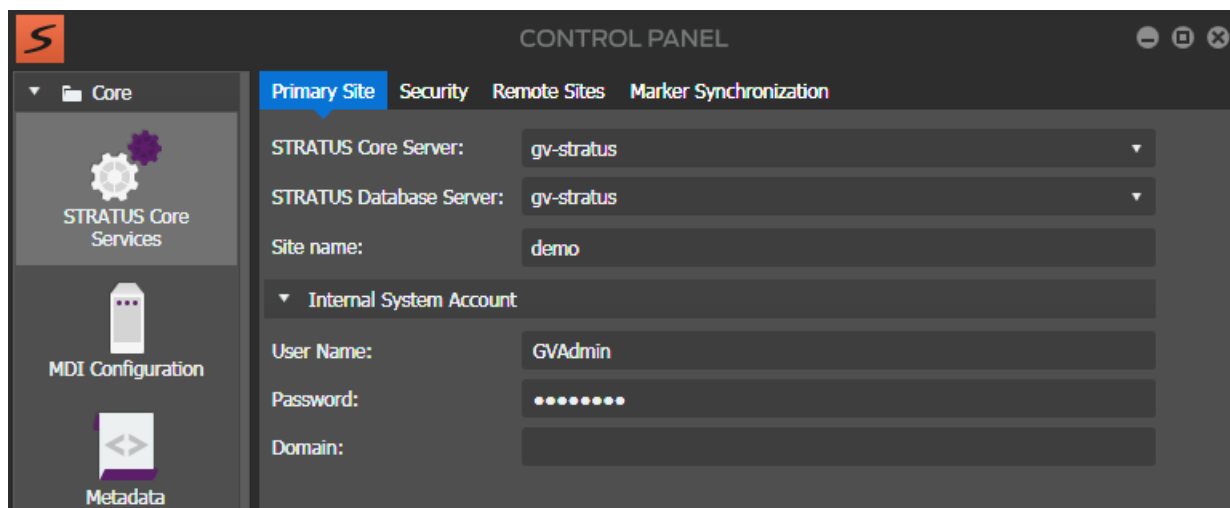
Related Topics

[Configuring GV STRATUS Control Panel: Required settings](#) on page 644

STRATUS Core Services settings

These settings are required on all GV STRATUS systems.

To locate these settings, click **Core | STRATUS Core Services | Primary Site**



Setting or button	Description
GV STRATUS Core Server	The GV STRATUS server with SiteConfig role of GV STRATUS Core Services. In a typical system, select the server from the drop-down list. The server or servers available on this drop-down list are provided by SiteConfig. For some system configurations, you can also enter the GV STRATUS server manually.
GV STRATUS Database Server	The GV STRATUS server with SiteConfig role of GV STRATUS Database. In a typical system, select the server from the drop-down list. The server or servers available on this drop-down list are provided by SiteConfig. The GV STRATUS Database Server is currently supported on the GV STRATUS Express and Core Servers only.
Site name	Customizable name that can be set for the local GV STRATUS site.
Internal System Account User Name, Password, Domain	The internal system account is the account that the GV STRATUS system uses to access assets and some internal system functions. By default this is the GVAdmin account. If your site policies require a different account, such as a fully qualified domain account, that account must be configured here and throughout the GV STRATUS system. NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

Related Topics

[Configuring STRATUS Core Services settings: Required](#) on page 645

[About GV STRATUS markers, Dyno markers, and the K2 database](#) on page 351

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

[Rules engine settings](#) on page 284

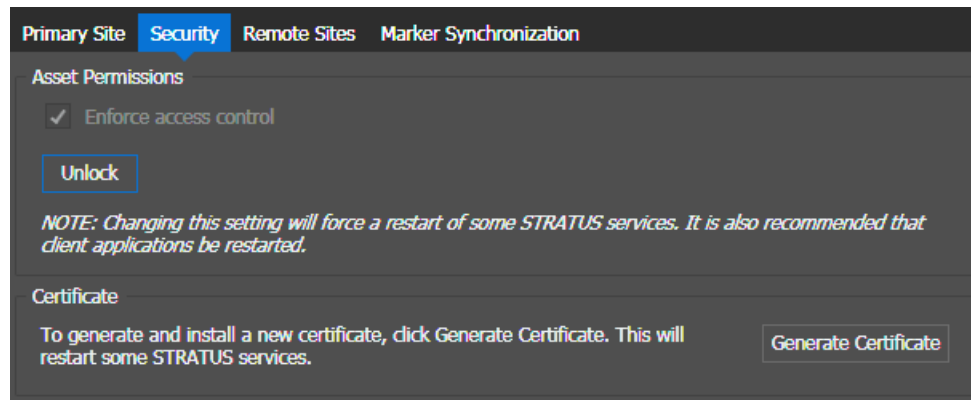
[Enabling and disabling rules](#) on page 528

[Fully qualified domain configuration](#) on page 725

GV STRATUS system security settings

These settings are required on all GV STRATUS systems.

In GV STRATUS Control Panel, to locate these settings, click **Core | STRATUS Core Services | Security**



Setting or button	Description
Enforce access control	When selected, the GV STRATUS system configures, retains, and enforces security settings on assets and bins. When not selected, the GV STRATUS system configures and retains, but does not enforce, security settings on assets and bins.
Lock/Unlock	Locks and unlocks the access control setting.
Generate Certificate	This creates a self-signed security certificate and installs it on the GV STRATUS Core server. Manually generating a certificate in this way is required only if the GV STRATUS Core server name changes, or if instructed to do so by Grass Valley Support. Otherwise, generating a certificate is handled automatically by GV STRATUS software installation.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

If settings are saved, GV STRATUS services are restarted automatically. All instances of the GV STRATUS currently open should be restarted manually.

Remote Sites settings

These settings are optional on GV STRATUS systems.

These settings affect the following:

- Copying assets from a local site to a remote site
- Copying assets from a remote site to a local site

To locate these settings, click **Core | STRATUS Core Services | Remote Sites**

Primary Site	Security	Remote Sites	Marker Synchronization
Server Name	Site Name		
10.251.52.13	kulas-sc-a127		
10.251.52.127	kulas-nebula		

Setting or button	Description
Server name	The name or IP address of the remote GV STRATUS core server.
Site name	Customizable name that can be set for the remote GV STRATUS site.
Add	Opens the Add New Remote Site dialog box for you to add a remote GV STRATUS site. You can use the Add button repeatedly to add multiple remote sites.
Modify	Opens the Edit Remote Site dialog box to modify the setting of the selected remote site.
Remove	Removes the selected remote site.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

Related Topics

[Remote and multiple site configuration](#) on page 402

Remote Site Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | STRATUS Core Services | Remote Sites | Add** or **Modify**

Setting or button	Description
Server Name	The name or IP address of the remote GV STRATUS core server.
Site Name	Customizable name that can be set for the remote GV STRATUS site.
Remote Transfers: Transfer Server	Set to Automatic . NOTE: Local and remote FTP networks must be able to communicate with one another.
Remote Transfers: User Name	Credentials for the administrator account at the remote site, for authorizing transfers.
Remote Transfers: Password	Credentials for the administrator account at the remote site, for authorizing transfers.
Remote Security: Use GV STRATUS Logon Credentials	If GV STRATUS security is enforced, when a GV STRATUS application accesses a remote site, the credentials of the user account logged on to the GV STRATUS application are used to determine access to assets. This requires a single domain for both local and remote sites or trusted domains between sites, so that user accounts can be authenticated.

Setting or button	Description
Remote Security: Use Specified Logon Credentials	If GV STRATUS security is enforced, when a GV STRATUS application accesses a remote site, the credentials entered here are used to determine access to assets, regardless of the user account logged on to the GV STRATUS application. This requires that only the credentials entered here be authenticated on the remote site, so a single domain for both local and remote sites or trusted domains between sites is not necessary.

NOTE: When using multiple GV STRATUS sites, make sure all sites either have security enabled or disabled. Do not attempt to run mixed environments.

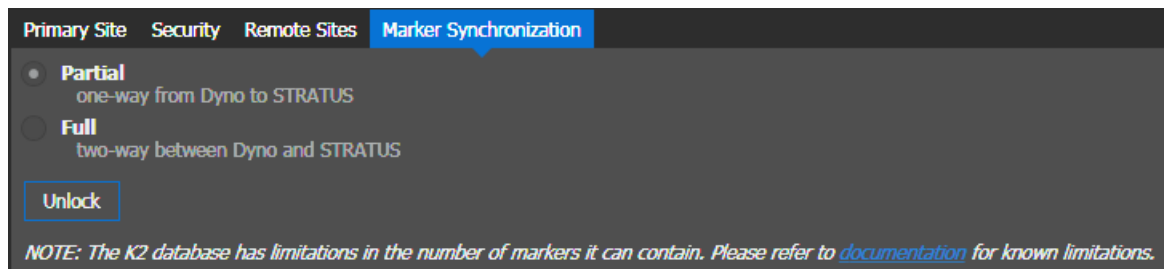
Related Topics

[GV STRATUS security considerations](#) on page 410

Marker Synchronization settings

These settings are required on all GV STRATUS systems.

To locate these settings, click **Core | STRATUS Core Services | Marker Synchronization**



Setting or button	Description
Partial	One-way marker creation from Dyno to GV STRATUS, then two-way marker modification and deletion. This is the recommended setting for all systems.
Full	Two-way creation, modification, and deletion between Dyno and GV STRATUS. Use this setting only if required by your K2 Dyno Controller workflow. Consider K2 database capacity limitations when using this setting.
Lock/Unlock	Locks and unlocks Marker Synchronization settings
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

If the Marker Synchronization setting is changed, the GV STRATUS Core server and the K2 system must be restarted.

Related Topics

[About GV STRATUS markers, Dyno markers, and the K2 database](#) on page 351

MDI Configuration settings

These settings are required on all GV STRATUS systems.

To locate these settings, click **Core | MDI Configuration | Managed Devices**

Managed Devices			
MDI Name	MDI Type	Hostname	Port
Proxy	Proxy	GVKL_CS3	9110
kl_summit_7	Summit	GVKL_CS3	9160
Stratus_SM_2	Summit	GVKL_CS3	9161
FTPMIDI	Generic FTP	GVKL_CS3	9170
MasstechMDI	Masstech	GVKL_CS3	9129
FlashNETMDI	FlashNET Archive	GVKL_CS3	9124

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port	The port used by the currently configured MDI.
Add	Opens the MDI Configuration dialog box.
Modify	Opens the MDI Configuration dialog box for the selected MDI.

Setting or button	Description
Remove	<p>Removes the selected MDI.</p> <p>Only for Summit MDI, the Delete Type dialog box displays. Select a delete type from these options below and click the Delete button.</p> <ul style="list-style-type: none"> • MDI Only - Deletes the Summit MDI only, but leaves all logical assets and data in the GV STRATUS database. The Summit MDI still appears under Locations node in the Navigator, but no changes can be made to the metadata. • MDI with Special Group - Deletes the Summit MDI, moves all data of assets into a specially created group but no changes can be made to the metadata, and removes all high-resolution associations pointing to the deleted Summit MDI. The name of specially created group for the deleted MDI has an appended suffix in this format: MDI name_DELETED_Deletion date <p><i>NOTE: If the Summit MDI is added back and appears under Locations, the specially created group remains under Groups until you manually remove it from the Groups node.</i></p> <ul style="list-style-type: none"> • MDI, Logical Assets, and Proxy Files - Deletes the Summit MDI, all assets and data in GV STRATUS database that map to the Summit MDI, and all proxy files. However, it leaves K2 Media intact on disk. <p><i>NOTE: When adding back a previously deleted Summit MDI, make sure you use the same MDI name and port number to re-sync the MDI with all data in the GV STRATUS database.</i></p>

MDI Configuration Add/Modify settings

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add**

Setting or button	Description
MDI Type	<p>Provides a list of MDI types.</p> <p>Selecting a MDI type loads the appropriate settings for that MDI type.</p>
MDI Name	Refer to the settings for the selected MDI Type

Setting or button	Description
Hostname of device running the MDI	Refer to the settings for the selected MDI Type
Port number	Refer to the settings for the selected MDI Type

Related Topics

[MDI and Encoder logical names convention](#) on page 373

Summit MDI standalone settings

These Summit MDI settings for standalone and/or Summit MDI settings for SAN are required on all GV STRATUS systems.

This type of MDI manages a K2 Summit system. This topic describes settings when the type of system is specified as Standalone.

To locate these settings, click **Core | MDI Configuration | Add | Summit**

The screenshot shows the 'MDI Configuration' dialog box with the following settings:

- MDI Type:** Summit
- MDI Name:** SummitMDI
- Hostname of device running the MDI:** stratus
- Port number:** 9161
- Type of K2 device:** ☒ SAN ☐ Standalone ☐ K2 Central ☐ Third Party Storage
- Select K2 Standalone:** kd_summit_10
- UNC Path:** \\kd_summit_10\V
- Account used to connect to K2 Standalone or SAN:**
 - User Name:** GVAdmin
 - Domain:**
 - Password:** (masked with dots)
- FTP Transfer Server:**
 - FTP Server Name:** kd_summit_10_he0
 - Maximum concurrent transfers :** 4
 - FTP User Account:** movie
 - FTP Password:** (empty field)

Buttons at the bottom: Save, Cancel

When you have multiple Summit MDIs, they must each have their own process port number. For this purpose, numbers 9160 - 9169 increment in the **Port** field.

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.

Setting or button	Description
MDI Name	<p>A name for this instance of the MDI type. Do not use spaces in the MDI name. The MDI name could be renamed later, if desired.</p> <p>NOTE: After renaming the Summit MDI, you must restart the Render Engine server and its services. Then, reconfigure other settings on the Control Panel (such as Send Destinations, Rules, K2 Central storage, etc.) to use the new Summit MDI name.</p>
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The process port for this instance of the MDI type. Each instance must have its own process port. Port numbers must be in range 9160-9169.
Type of K2 device	Specifies either SAN-attached K2 Summit system, Standalone K2 Summit system, K2 Central system, or Third Party Storage system. When Standalone is selected, settings are as follows.
Select K2 Standalone	The standalone K2 Summit system that this MDI accesses.
UNC Path	The UNC path to the standalone K2 Summit system.
User Name	The user name that this MDI uses to access the K2 Summit system. This is the internal system account, which by default is GVAdmin.
Domain	<p>If on a domain, the domain that manages the account that this MDI uses to access the K2 Summit system.</p> <p>NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.</p>
Password	The password that this MDI uses to access the K2 Summit system.
FTP Server Name	The FTP server name for the remote K2 Summit system. For the typical system where there is a separate FTP network, this is the name of the K2 SAN's FTP server with the _he0 suffix added. The _he0 suffix specifies the FTP network.
Maximum concurrent transfers	The maximum number of concurrent transfers allowed. The maximum is set in K2Config. You may select the maximum or a lesser number as designed for your system. The number of concurrent transfers as well as the device status can be checked once the system is configured in Resource Monitor of the GV STRATUS Control Panel.
FTP User Account	The FTP user name for the K2 Summit system this MDI accesses. Typically this is movie.
FTP Password	The FTP password for the K2 Summit system this MDI accesses. When this field is blank the system automatically uses the default password.

If you changed MDI settings, you must restart the GV STRATUS Core server system and the K2 Summit system. If SAN MDI settings, you must restart the entire K2 SAN system, including K2 Media Servers, attached K2 Summit systems, and other SAN clients. If you are changing multiple K2 Summit MDI settings, you can make all those settings first before restarting these systems. Restarting the systems once is sufficient for multiple K2 Summit MDI settings changes.

When adding back a previously deleted Summit MDI, you can re-sync the MDI with all data retained in the GV STRATUS database by doing the following:

- Reuse the same MDI name that was previously deleted
- Reuse the same port number that was used with the deleted MDI

Related Topics

[MDI and Encoder logical names convention](#) on page 373

[Proxy Encoder MDI settings](#) on page 266

[Configuring Summit MDI settings: Required for standalone](#) on page 650

[Fully qualified domain configuration](#) on page 725

Summit MDI SAN settings

These Summit MDI settings for SAN and/or Summit MDI settings for standalone are required on all GV STRATUS systems.

This type of MDI manages K2 Summit Production Client systems. This topic describes settings for a K2 Summit SAN system.

To locate these settings, click **Core | MDI Configuration | Add | Summit**

The screenshot shows the 'MDI Configuration' dialog box with the following fields and settings:

- MDI Type:** Summit
- MDI Name:** SummitMDI
- Hostname of device running the MDI:** (Empty dropdown menu)
- Port number:** 9161
- Type of K2 device:**
 - ☒ SAN
 - ☐ Standalone
 - ☐ K2 Central
 - ☐ Third Party Storage
- SAN Client Selection**
 - SAN Name:** (Empty dropdown menu)
 - Primary Device:** (Empty dropdown menu)
- Account used to connect to K2 Standalone or SAN**
 - User Name:** GVAdmin
 - Domain:** (Empty text field)
 - Password:** (Masked with dots)
- FTP Transfer Server**
 - FTP Server Name:** kd_Summit_10_he0
 - Maximum concurrent transfers :** 4
 - FTP User Account:** movie
 - FTP Password:** (Empty text field)

Buttons at the bottom: Save, Cancel

Designate one of the SAN-attached K2 Summit systems to be the managed device for the entire K2 SAN storage system. Configure a Summit MDI for only that K2 Summit system on the K2 SAN.

If you have multiple standalone K2 Summit systems, multiple K2 SAN systems, a combination of standalone and K2 SAN systems, a K2 Central system, or a SMB storage system, each system must have its own Summit MDI.

When you have multiple Summit MDIs, they must each have their own process port number. For this purpose, numbers 9160 - 9169 increment in the **Port** field.

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name. The MDI name could be renamed later, if desired. NOTE: After renaming the Summit MDI, you must restart the Render Engine server and its services. Then, reconfigure other settings on the GV STRATUS Control Panel (such as Send Destinations, Rules, K2 Central storage, etc.) to use the new Summit MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The process port for this instance of the MDI type. Each instance must have its own process port. Port numbers must be in range 9160-9169.
Type of K2 device	Specifies either SAN-attached K2 Summit system, Standalone K2 Summit system, K2 Central system, or Third Party Storage system.
SAN Name	The name of the K2 SAN, as named in K2Config. You can also enter the name of K2 Central system or third party storage device, if you have them in your operation.
Primary Device	The SAN-attached K2 Summit system designated to be the managed device for the entire K2 SAN storage system. Or the managed device for K2 Central or the third party storage system in your operation.
UNC Path	The UNC path for a connection to the SMB Storage. The field for UNC path is only available when the Third Party Storage option is selected.
User Name	The user name that this MDI uses to access the K2 Summit system. This is the internal system account, which by default is GVAdmin.
Domain	If on a domain, it must be a fully qualified domain that this MDI uses to access the designated managed device. This field should only be set for fully qualified domain of third party storage system in your operation.
Password	The password that this MDI uses to access the K2 Summit system. NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

Setting or button	Description
FTP Server Name	The FTP server name for the remote K2 Summit system. The drop-down list consists of all FTP servers belonging to the Summit SAN. For the typical system where there is a separate FTP network, this is the name of the K2 SAN's FTP server with the _he0 suffix added. The _he0 suffix specifies the FTP network.
Maximum concurrent transfers	The maximum number of concurrent transfers allowed. The maximum is set in K2Config. You may select the maximum or a lesser number as designed for your system. The number of concurrent transfers as well as the device status can be checked once the system is configured in Resource Monitor of the GV STRATUS Control Panel.
FTP User Account	The FTP user name for the K2 Summit system this MDI accesses. Typically this is movie.
FTP Password	The FTP password for the K2 Summit system this MDI accesses. When this field is blank the system automatically uses the default password.

If you changed MDI settings, you must restart the GV STRATUS Core server system and the K2 Summit system. If SAN MDI settings, you must restart the entire K2 SAN system, including K2 Media Servers, attached K2 Summit systems, and other SAN clients. If you are changing multiple K2 Summit MDI settings, you can make all those settings first before restarting these systems. Restarting the systems once is sufficient for multiple K2 Summit MDI settings changes.

When adding back a previously deleted Summit MDI, you can re-sync the MDI with all data retained in the GV STRATUS database by doing the following:

- Reuse the same MDI name that was previously deleted
- Reuse the same port number that was used with the deleted MDI

Related Topics

[MDI and Encoder logical names convention](#) on page 373

[Proxy Encoder MDI settings](#) on page 266

[Configuring Summit MDI settings: Required for SAN](#) on page 652

[Fully qualified domain configuration](#) on page 725

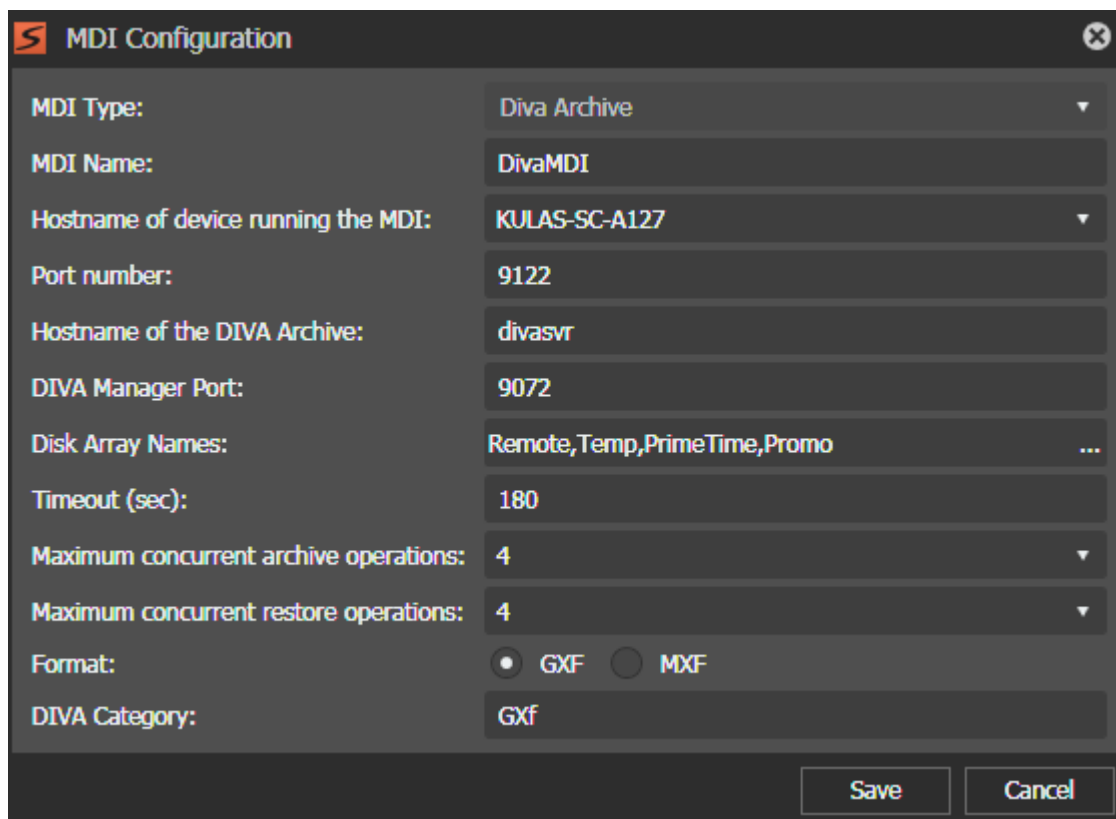
DIVA Archive MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

Since DIVA provides direction oriented FTP transfer and port configuration settings, it is recommended to configure the maximum concurrent number of supported archive and restore operations in this Diva Archive MDI setting. They should be identical to the configuration in the DIVA Manager.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Diva Archive**



The image shows a 'MDI Configuration' dialog box with the following fields and values:

- MDI Type: Diva Archive
- MDI Name: DivaMDI
- Hostname of device running the MDI: KULAS-SC-A127
- Port number: 9122
- Hostname of the DIVA Archive: divasvr
- DIVA Manager Port: 9072
- Disk Array Names: Remote,Temp,PrimeTime,Promo
- Timeout (sec): 180
- Maximum concurrent archive operations: 4
- Maximum concurrent restore operations: 4
- Format: ☒ GXF ☐ MXF
- DIVA Category: GXf

Buttons: Save, Cancel

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9122. Other port numbers are also allowed.
Hostname of the DIVA Archive	The hostname or IP address of the DIVA Archive server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
DIVA Manager Port	The default value for the DIVA Manager Port number is listed below: <ul style="list-style-type: none"> DIVA version 7.1 and below: 9000 DIVA version 7.2: 9072 Other DIVA Manager Port numbers are also allowed. Refer to your DIVA archive server for configuration details.
Disk Array Names	The disk arrays in DIVA that are exposed in GV STRATUS clients.
Timeout (sec)	The default timeout is 180 seconds.

Setting or button	Description
Maximum concurrent archive operations	The maximum number of transfers that the MDI will process at the same time for archive operations. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel. The maximum number is set to 5 by default.
Maximum concurrent restore operations	The maximum number of transfers that the MDI will process at the same time for restore operations. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel. The maximum number is set to 5 by default.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
DIVA Category	Specifies the DIVA category for your archived material. The DIVA MDI shows material in this category only. If this setting is blank the DIVA MDI shows all archived material and archives to the default GXF category.

Related Topics

[Configuring DIVA](#) on page 695

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

FlashNET Archive MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | FlashNET Archive**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.

Setting or button	Description
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9124. Other port numbers are also allowed.
Hostname of the FlashNET Archive	The name or IP address of the FlashNET Archive server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click Save and restart your GV STRATUS clients.

Related Topics

[Configuring FlashNet](#) on page 698

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

Masstech MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Masstech**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9129. Other port numbers are also allowed.
Masstech Server	The name or IP address of the Masstech server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Masstech Port	The default value for the Masstech port is 16888.
Masstech Username	The Masstech username.
Masstech Password	The Masstech password.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: Click <i>Save</i> and restart your GV STRATUS clients to put a format change into effect.

Related Topics

[Configuring Masstech](#) on page 700

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

Generic FTP MDI settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Generic FTP**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9170. Other port numbers are also allowed.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. You can configure up to 10 concurrent transfers if you have large resources in your system. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
FTP Server Name	The IP Address or the name resolving to the FTP server on the FTP server network where assets will be transferred to. If using a K2 nearline, configure the Generic FTP MDI to use the K2's nearline FTP. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
FTP User Account	The FTP user name.
FTP Password	The FTP password.

Setting or button	Description
FTP Root Directory	The root directory for the Generic FTP MDI. Once you set the root directory, only folders under the root directory are exposed in the Navigator of GV STRATUS application.

Related Topics

[Installing and configuring FileZilla](#) on page 704

[Configuring the GV STRATUS system for FileZilla](#) on page 709

[Configuring the Generic FTP MDI role for Nearline K2 SAN](#) on page 711

Common RESTful Archive MDI settings

These settings are optional on GV STRATUS systems.

You can configure up to 2 Common RESTful Archive MDIs in the GV STRATUS Control Panel, and both MDIs are able to archive assets in parallel at the same time.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Common RESTful Archive**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9120. Other port numbers are also allowed.

Setting or button	Description
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
Archive Server Name	The name of the Archive Server.
Archive User Account	The user account to access the Archive Server.
Archive Password	The password for the user account.

NOTE: For Common RESTful Archives, transfers between archives are only supported between the Common RESTful Archive and Generic FTP servers.

Related Topics

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

[Archiving an asset](#) on page 918

Proxy Encoder MDI settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Proxy Encoder**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.

Setting or button	Description
Hostname of device running the MDI	The name of the GV STRATUS server on which this MDI runs and which is managed by this MDI. Typically this is the Proxy Encoder itself. If an Express system with no Proxy Encoders, this is the Express server.
Port number	For the first encoder, port 9230 is required. For any additional Proxy Encoders, the port number is automatically incremented. For example, for the second encoder the port number is 9231.
Source MDI	The MDI for the K2 Summit/SAN system with the high resolution assets.
FTP Server	If a GV STRATUS system with K2 Summit SAN-attached systems only, the FTP Server is the Proxy Encoder itself. If a GV STRATUS system with a K2 Summit standalone system, the FTP server is the K2 Summit standalone system.

Related Topics

[MDI and Encoder logical names convention](#) on page 373

Metadata settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Metadata**

Custom Metadata settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Metadata | Custom Metadata**

Custom Metadata

Permissions

Metadata Mapping

Metadata Export

Inspector Sections

Entity Type:

STRATUS Asset

Field	Type	Range	Display
AA1	Text - Unlimited	11111, 222222, 33333	<input type="checkbox"/>
AA2	Text - Unlimited	111122, 22222244	<input checked="" type="checkbox"/>
ABC Rating	Rating		<input type="checkbox"/>
ABC Tag	Tags		<input type="checkbox"/>
ArchivesID	Text - Unlimited		<input type="checkbox"/>
Branch	Text - Unlimited		<input type="checkbox"/>
CameraOperator	Text - Unlimited		<input type="checkbox"/>
CommissioningProgram	Text - Unlimited		<input type="checkbox"/>
Content Description	Text - 256 Charac...		<input type="checkbox"/>
Content Name	Text - 256 Charac...		<input type="checkbox"/>
Content Type	Text - 256 Charac...		<input type="checkbox"/>
ContentLocation	Text - Unlimited		<input type="checkbox"/>
CopyrightDescription	Text - Unlimited		<input type="checkbox"/>
Custom Date	Date		<input type="checkbox"/>
Custom Large Number	Large Number		<input type="checkbox"/>
Custom Tag	Tags		<input type="checkbox"/>
Custom TimeCode	Timecode		<input type="checkbox"/>
DateOfRecord	Date		<input type="checkbox"/>

Add

Modify

Remove


Edit Rule Display Order

The GV STRATUS application prevents you from creating a custom metadata field with the same name as an existing metadata field. However, if you use K2 AppCenter to create metadata fields, it is possible to have multiple fields with the same name. If this occurs, the GV STRATUS application displays the first field only.

Custom metadata fields configured here are then available for use in the GV STRATUS application as follows:

- On the Inspector Panel properties tab
- As an Asset List column
- As a House Number List column
- As an Advanced Search criteria
- For inclusion in rules
- On a Segment Template
- On markers and keywords

Setting or button	Description
Entity Type	A list of available GV STRATUS entities for which you can configure custom metadata. NOTE: <i>You can only configure custom metadata for markers and keywords if you are assigned with the Media Manager role.</i>
Add	Opens the Add Field dialog box to add metadata fields.
Modify	Opens the Modify Field dialog box for the selected field.
Remove	Removes the selected field.
Edit Display Order	Opens the Edit Rule Display Order dialog box to reorder the display of custom metadata during rule configuration.

 **Tip:** *It is recommended to reset index after removing a custom metadata field. If not, a deleted custom metadata field will only be removed from the index after modifications of assets.*

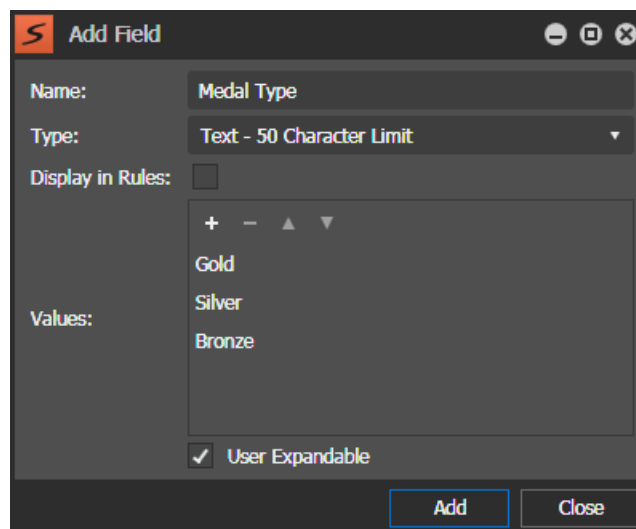
Related Topics

[Search Index Config settings](#) on page 297

[About custom fields](#) on page 354

Custom Metadata Add/Modify Field settings

To locate these settings, click **Core | Metadata | Custom Metadata | Add** or **Modify**



Setting or button	Description
Name	The name of the custom metadata field you are creating. This name is displayed in the GV STRATUS application.

Setting or button	Description
Type	<p>The type of custom metadata field. When a type of field is used in the GV STRATUS application, it has characteristics as follows:</p> <ul style="list-style-type: none"> • Boolean: A checkbox. • Date: A drop-down calendar from which dates can be selected. Text can also be entered in the field. • Number: A field in which numbers only can be entered, up to 9 digits. • Large Number: A field in which numbers only can be entered, up to 18 digits. • Text - 50 Character Limit: A drop-down list of values, if configured. Text up to 50 characters can also be entered. • Text - 256 Character Limit: A drop-down list of values, if configured. Text up to 256 characters can also be entered. • Text - 2000 Character Limit: A drop-down list of values, if configured. Text up to 2000 characters can also be entered. • Text - Unlimited: A drop-down list of values, if configured. Text of any length can also be entered. • Tags: A field in which tags can be entered as text, with commas separating individual tags. • Rating: A row of selectable stars. • Timecode: A field in which timecode values can be entered as numbers and adjusted with up/down arrows. <p>NOTE: To optimize GV STRATUS application search performance, restrict the number of characters allowed in a field. Fields with a large number of characters slow search results.</p>
Display in Rules	If this checkbox is selected, the custom metadata field appears in the Rule Editor configuration window. A rule can then be configured according to custom metadata values.
Values	<p>If the field type is Text, the following controls configure a list of values for the field:</p> <ul style="list-style-type: none"> • Plus sign: Opens the Add Field Value dialog box in which a value is entered. • Minus sign: Removes a value from the list. • Up arrow: Moves a value up the list. • Down arrow: Moves a value down the list.
User Expandable	If this checkbox is selected, the custom metadata values display in a drop-down list in the Inspector. You can also add other values for the custom metadata on the Properties tab of the Inspector.
Add	On Add Field dialog box. Adds the field to the list in Metadata settings while the Add Field dialog box remains open.
Close	On Add Field dialog box. Closes the Add Field dialog box without adding the field currently configured.
Update	On Modify Field dialog box. Updates the changes to the field.

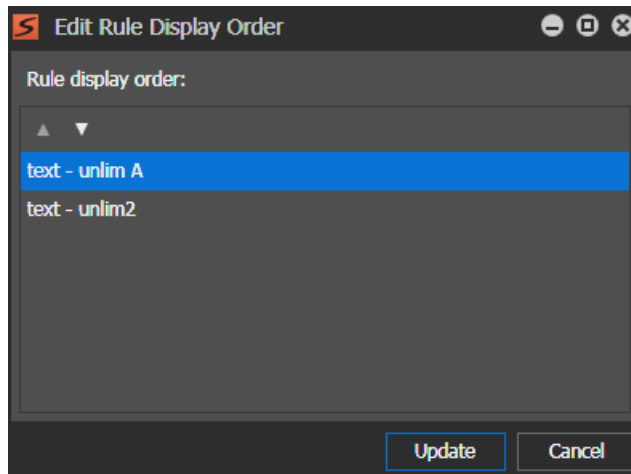
Setting or button	Description
Cancel	On Modify Field dialog box. Cancels changes to the field.

Related Topics

[Using custom metadata in Inspector](#) on page 818

Custom Metadata Edit Rule Display Order settings

To locate these settings, click **Core | Metadata | Custom Metadata | Edit Rule Display Order**



Custom metadata fields for which **Display in Rules** is selected are listed in this dialog box. The order of fields defined here is displayed during rule configuration.

Setting or button	Description
Up/down arrows	Moves the selected custom metadata field up and down the list.
Update	Updates the order of the fields.
Cancel	Cancels changes to order of the fields.

Permissions settings

To locate these settings, click **Core | Metadata | Permissions**.

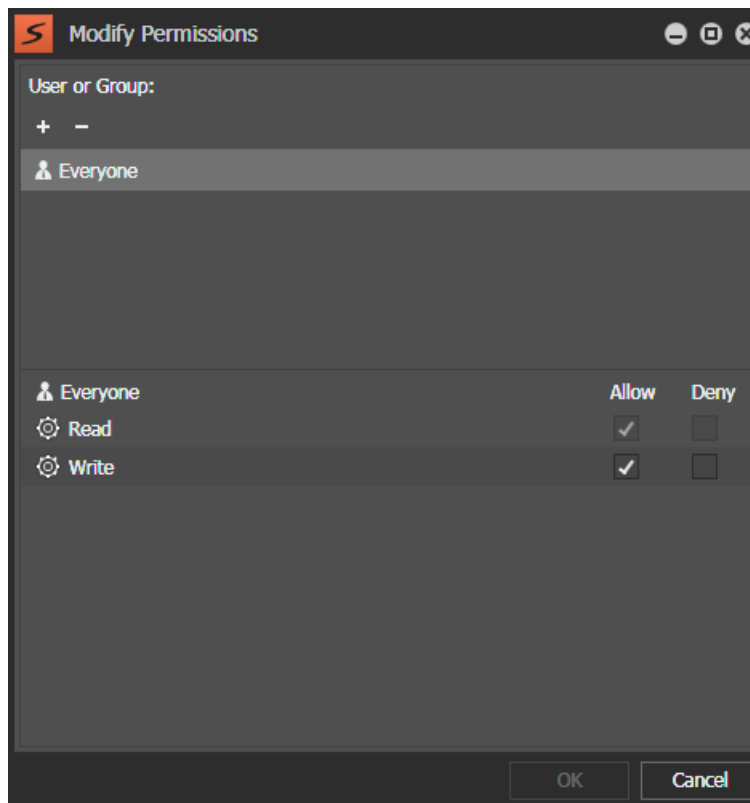
Custom Metadata	Permissions	Metadata Mapping	Metadata Export	Inspector Sections
Asset Field		Permissions		
Ads	Everyone Read/Write			
Angle	Everyone Read/Write			
Approval Status	Everyone Read/Write			
Aspect Ratio	Everyone Read/Write			
Asset Type	Everyone Read/Write			
Being Deleted	Everyone Read/Write			
Comments	Everyone Read/Write			
Content Description	Custom			
Content Name	Custom			
Content Type	Everyone Read/Write			
Created Date	Everyone Read/Write			
Description	Everyone Read/Write			
Duration	Everyone Read/Write			
Force	Everyone Read/Write			
House Number	Everyone Read/Write			
Import Location	Everyone Read/Write			
Int	Everyone Read/Write			
Kind	Everyone Read/Write			
Large Number	Everyone Read/Write			
LinkedToHouseNumber	Everyone Read/Write			
Mark In	Everyone Read/Write			
Mark Out	Everyone Read/Write			
MarkInStr	Everyone Read/Write			
MarkOutStr	Everyone Read/Write			
Modify				

You can configure user permissions and access controls for metadata fields. By default, everyone has read and write access rights. Once modified, the permission displayed as **Custom**.

Setting or button	Description
Asset Field	The list of Asset Fields which you can configure permissions for.
Permissions	Configurable user permissions including read and write access controls.
Modify	Opens the Modify Permissions dialog box for the selected field.

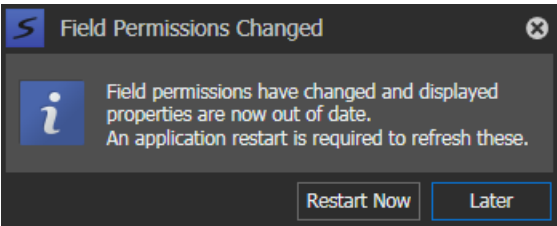
Permissions Modify Field settings

To locate these settings, click **Core | Metadata | Permissions | Modify**



Setting or button	Description
User or Group	<p>The list of users or groups with permissions and access rights to the metadata.</p> <p>To assign permissions, click + and enter any user or group in the Add Users or Groups dialog box. If necessary, click Advanced to open Windows operating system dialog box to find and validate users or groups.</p> <ul style="list-style-type: none"> • Plus sign: Opens the Add Users or Groups dialog box to assign users or groups with permissions. • Minus sign: Removes a user or group from the list.
Allow / Deny	<p>The type of access rights that can be configured for users and groups. By default, all assigned users and groups have Read and Write permissions as follows:</p> <ul style="list-style-type: none"> • Read: Access right to read the metadata. • Write: Access right to modify the metadata. If Deny is selected, the metadata value is grayed out in the Inspector. <p>Set permissions by selecting Allow or Deny as appropriate.</p>
OK	Updates the changes to the Permissions settings.
Cancel	Cancels changes to the Permissions settings.

If **Read** permissions are changed from Deny to Allow, the **Field Permissions Changed** dialog appears. You must restart the GV STRATUS application in order to view those fields.



Metadata Mapping settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Metadata | Metadata Mapping**

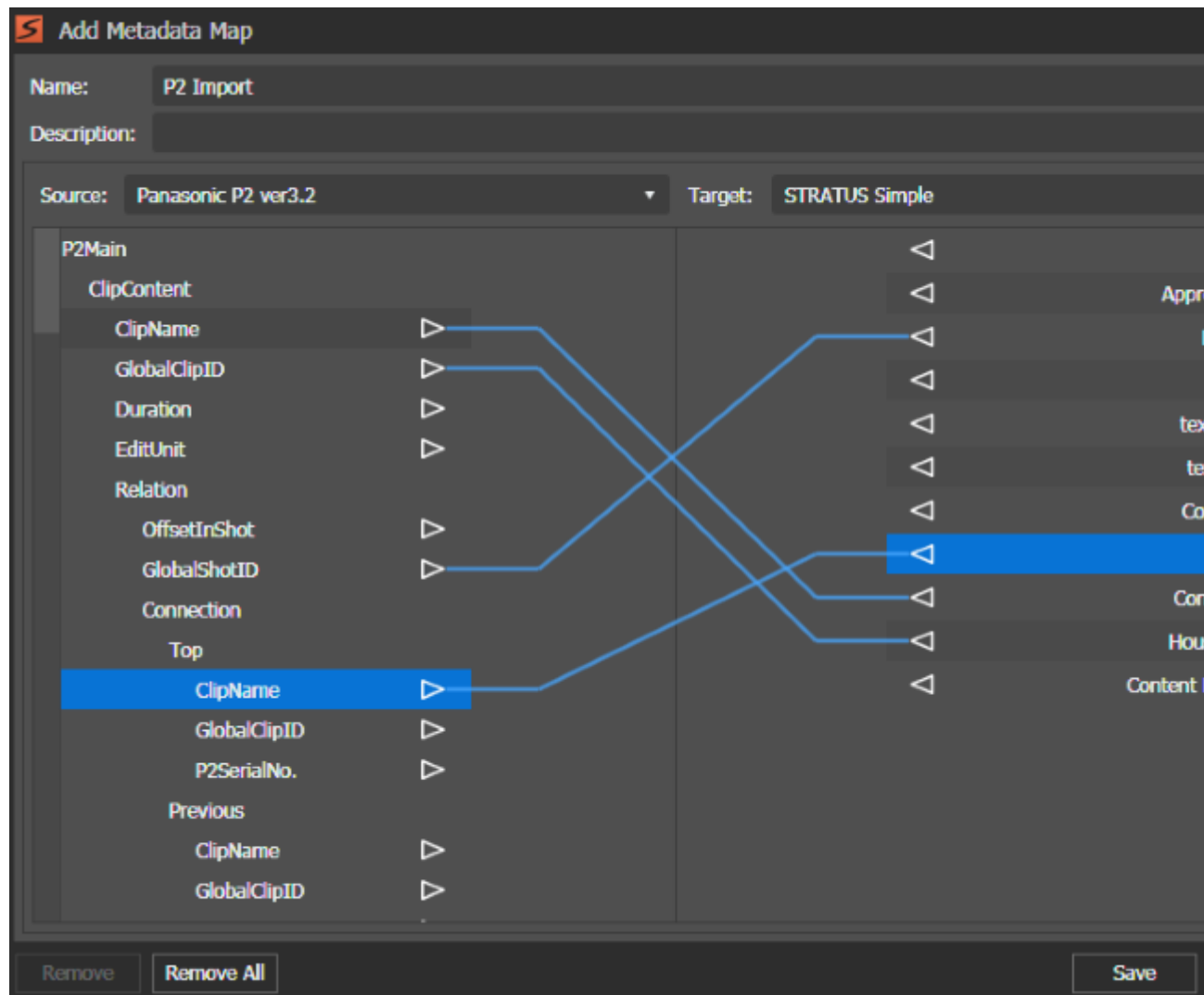
Custom Metadata	Permissions	Metadata Mapping	Metadata Export	Inspector Sections
Map Name	Source Metadata	Target Metadata	Description	
AVC 2.00	Sony XDCAM XAVC ver2.00	STRATUS Simple	XAVC 2.00 description	
Panasonic v1	Panasonic P2 ver1.0	STRATUS Simple	Panasonic v1 Desc	
Panasonic v2	Panasonic P2 ver2.0	STRATUS Simple	Panasonic v2 Desc	
Panasonic v3	Panasonic P2 ver3.0	STRATUS Simple	Panasonic v3 Desc	
Panasonic v3.10	Panasonic P2 ver3.1	STRATUS Simple	Panasonic v3.10 Desc	
Panasonic v3.2	Panasonic P2 ver3.2	STRATUS Simple	Panasonic v3.2 Desc	
Sony v1	Sony XDCAM ver1.00	STRATUS Simple	Sony v1 Desc	
Sony v1.1	Sony XDCAM ver1.10	STRATUS Simple	Sony v1.1	
Sony v1.2	Sony XDCAM ver1.20	STRATUS Simple	Sony v1.2 desc	
Sony v1.3	Sony XDCAM ver1.30	STRATUS Simple	Sony v1.3	
Add	Modify	Remove		

Setting or button	Description
Map Name	Name of the metadata map.
Source Metadata	Source of metadata in the map.
Target Metadata	Target of metadata in the map.
Add	Opens the Add Metadata Map dialog box to create new metadata maps
Modify	Opens the Modify Metadata Map dialog to modify the selected map.
Remove	Removes the selected map.

After configuring metadata mapping, import an asset with mapped metadata, then view the imported asset in GV STRATUS Inspector to verify that metadata is inserted into mapped fields correctly.

Metadata Mapping Add/Modify Field settings

To locate these settings, click **Core | Metadata | Metadata Mapping | Add** or **Modify**



These settings apply to assets containing metadata that are imported with the RMI tool.

Setting or button	Description
Name	The name of the mapping. This can be any name, as appropriate for your workflow.
Description	The description of the mapping
Source	<p>The metadata from which you are mapping. The list is populated with the metadata fields defined by the source XML or other schema. One source field can be mapped to one or more target fields using drag-and-drop, as indicated by a mapping line or lines.</p> <p>The metadata source must be a valid XML schema. Refer to http://www.w3.org/TR/REC-xml/#charsets. Incorrect standards are not supported.</p>

Setting or button	Description
Target	The metadata to which you are mapping the source metadata. The list is populated with the metadata fields defined by the target schema. One target field can be mapped to one source field using drag-and-drop, as indicated by a mapping line.
Remove	Removes the selected mapping line.
Remove All	Removes all mapping lines
Save	Saves the mapping. For the selected source, only one metadata mapping may be saved. Multiple mappings for the same source are not allowed.
Close	Closes the dialog box.

Metadata Export settings

To locate these settings, click **Core | Metadata | Metadata Export**.

Property	Avid
Name	<input checked="" type="checkbox"/>
Created	<input type="checkbox"/>
Modified	<input type="checkbox"/>
Duration	<input checked="" type="checkbox"/>
MarkIn	<input type="checkbox"/>
MarkInStr	<input type="checkbox"/>
MarkOut	<input type="checkbox"/>
MarkOutStr	<input type="checkbox"/>
Rating	<input type="checkbox"/>
Keywords	<input checked="" type="checkbox"/>
Approval	<input type="checkbox"/>
Description	<input checked="" type="checkbox"/>
Angle	<input type="checkbox"/>
extendedComments	<input type="checkbox"/>
metadataRestored	<input type="checkbox"/>
ExecutedByRules	<input type="checkbox"/>
ImportLocation	<input type="checkbox"/>
VideoFormat	<input type="checkbox"/>
Type	<input type="checkbox"/>
Ads	<input type="checkbox"/>
AspectRatio	<input type="checkbox"/>

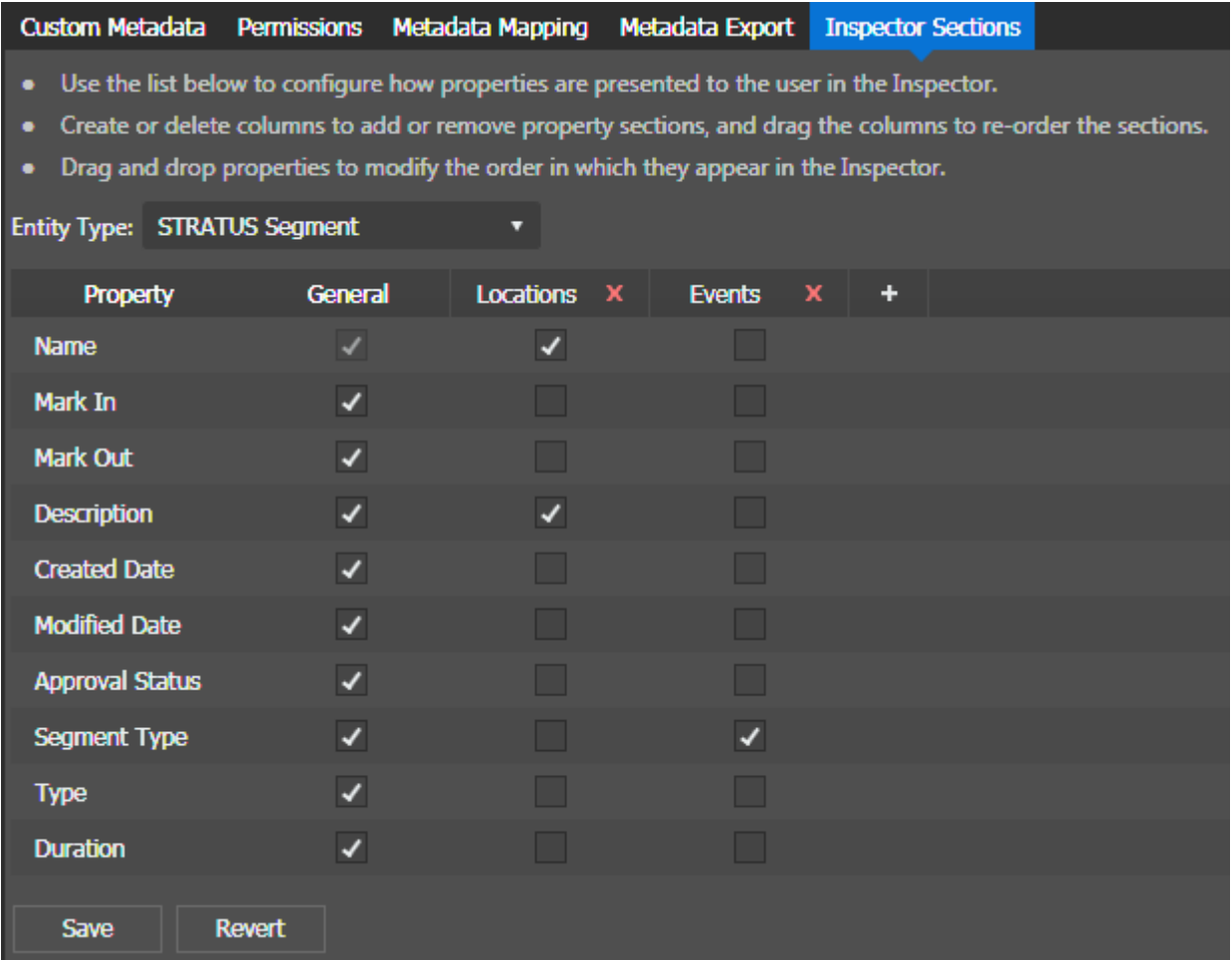
Save Revert

You can select to add metadata to be exported along with the asset after triggering transfer via context menu or the **Transfer to Avid** rule.

Setting or button	Description
Property	The name of the metadata field.
Avid	Rows selected in this column define metadata fields to be transferred with assets from GV STRATUS system into Avid.
Save	Saves the current settings.
Revert	Discards any new settings and reverts to the last saved settings.

Inspector Sections settings

To locate these settings, click **Core | Metadata | Inspector Sections**.



You can add and organize metadata and sections for display in Properties.

- Each row represents a metadata property. Properties can be reordered higher/lower using drag-and-drop.
- Each column represents a section. Added sections can be reordered left/right using drag-and-drop.

Setting or button	Description
Entity Type	<ul style="list-style-type: none">• Configures sections on tabs and property panels.
Property	The name of the metadata field.
General	Rows selected in the column define the metadata fields displayed on the default General section in Properties . This section cannot be removed or its position altered.
+	Opens the Add Tab dialog box, which defines a new section name and adds the section. Rows selected in the column define the metadata fields displayed on the added section.

Setting or button	Description
X	Removes an added column.
Save	Saves the current settings.
Revert	Discards any new settings and reverts to the last saved settings.

The GV STRATUS application must be restarted to put changes into effect.

Engines settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Engines**

Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmfl_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gvrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gvtranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gvdatamoverengine		Running

Save Cancel Refresh

Setting or button	Description
Configured	Selects an Engine for which settings are saved.
Engine Type	The Engine components installed on the GV STRATUS server.
Hostname	The name of a GV STRATUS server that hosts the Engine.
Services	The services that support the Engine.
Action	Starts and stops the Engine service.
Status	Indicates if the Engine service is running or stopped.
Save	Saves current settings to selected GV STRATUS servers.
Cancel	Returns settings to their last saved state.
Modify	When an Engine type that is modifiable is selected, opens settings to configure the engine.
Refresh	Updates the list.

Depending on the workflow and bandwidth requirements of your system, Grass Valley may provide a system design in which multiple engines of the same type run on one or more servers. Configure engines as specified by your system design.

For the Render Engine, GV STRATUS Control Panel Format settings define the format of conformed assets.

Related Topics

[Format settings](#) on page 119

[Render Engine Settings](#) on page 285

Xcode Control engine settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Engines | Xcode Control | Modify**

Setting or button	Description
Working Directory	The directory in which the Xcode Engine temporarily places files while exporting an asset. The directory must have enough capacity for your largest concurrent exports. The directory must allow transcode rule access. Refer to related topics for more information about transcode rule access.
Harmonic IP Address	The host name or IP address of the server that hosts or controls the application that transcodes the asset.
Harmonic Protocol	Selection for the protocol controlling the application, such as the Harmonic ProMedia™ Carbon (formerly Carbon Coder™) or Harmonic WFS.

Setting or button	Description
Harmonic Maximum Concurrent Transcodes	Limits the number of simultaneous transcodes performed. Use to balance resource load on the transcode application host. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Vantage IP Address	The host name or IP address of the server that hosts the Telestream Vantage™ application that transcodes the asset.
Vantage Maximum Concurrent Transcodes	Limits the number of simultaneous transcodes performed. Use to balance resource load on the transcode application host. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Elemental IP Address	The host name or IP address of the server that hosts the Elemental® application that transcodes the asset.
Elemental Maximum Concurrent Transcodes	Limits the number of simultaneous transcodes performed. Use to balance resource load on the transcode application host. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Save	Restarts the Xcode Control engine and applies changes. <i>NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.</i>
Cancel	Reverts to previously saved setting.

Related Topics

[Transcode rule access](#) on page 539

Data Mover engine settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Engines | Data Mover | Modify**

Setting or button	Description
YouTube	Settings to support export workflow to a YouTube channel triggered by GV STRATUS Rules.
Add Account	The Google account for the YouTube channel you will export assets to. You must click the Add Account button and enter your Google account details. Then, click the Register button and proceed with Google registration so the GV STRATUS Data Mover engine can upload clips into your YouTube channel.
Aspera Node Service	Settings for the Aspera Node Service to support FASP transfer protocol in export workflow triggered by GV STRATUS Rules. The convention must be <code>http://<IP address of local Aspera Node Service>:<port number></code> . Port number is typically 9091.
Aspera User Account	The user account and credential to access the Aspera Node Service.
Maximum Concurrent Transfers	Limits the number of simultaneous transfers performed by the Data Mover engine. Use to balance resource load on the system hosting the engine. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Save	Restarts the Data Mover engine and applies changes. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Cancel	Reverts to previously saved setting.

Related Topics

[Example rule: Export to a YouTube channel](#) on page 525

[Configuring Aspera](#) on page 537

Workflow engine settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Engines | Workflow | Modify**

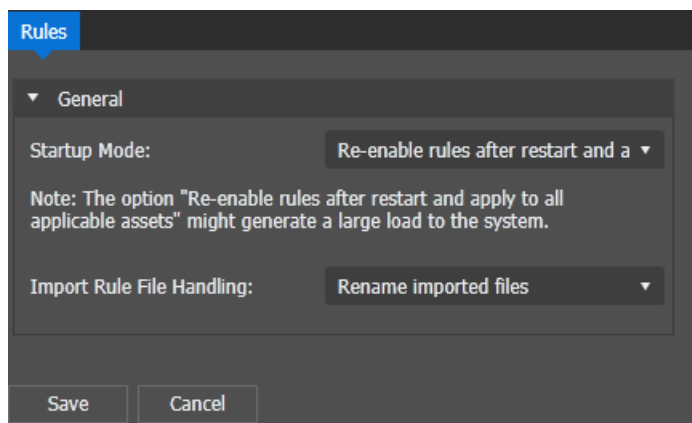
Setting or button	Description
Working Directory	The directory in which the Workflow Engine temporarily places files while exporting an asset to a FTP destination in QuickTime or QuickTime Reference format. First a K2 system export places the asset in the working directory, then an FTP transfer places the asset in the destination. The directory must have enough capacity for your largest concurrent exports. The directory must be accessible from the K2 system, GV STRATUS Render Engine, and the GV STRATUS server(s) running the Workflow Engine. The GVAdmin user must have access to the directory.
E-Mail Server	Settings for the email server the GV STRATUS system uses to send emails triggered by GV STRATUS Rules.
DMZ Share	Used for Digital Media Platform workflow. The access from the GV STRATUS system to the server machine running in the DMZ hosting an IIS. Must be a UNC path such as \\192.168.200.15\brightcove.
DMZ External Access URL	Used for Digital Media Platform workflow. The HTTP address for access to fetch files from the Brightcove site.

Setting or button	Description
Brightcove URL	Used for Digital Media Platform workflow. The Brightcove URL to register the files.

Rules engine settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Engines | Rules | Modify**



Setting or button	Description
Startup Mode	<p>Re-enable rules after restart and apply only to assets changed after the activation of the rule: When the GV STRATUS system starts up, rules are enabled but the Rules Engine does not take action on existing assets. Rather, it waits until an asset changes and then evaluates the asset to take action.</p> <p>Re-enable rules after restart and apply to all applicable assets: When the GV STRATUS system starts up, rules are enabled and the Rules Engine immediately evaluates existing assets and takes action accordingly.</p> <p>NOTE: Take care when using this setting. Assets for which the rule action successfully completed before the restart can have the rule action applied again after the restart, resulting in a large amount of unnecessary rule activity.</p> <p>Do not re-enable rules after restart: When the GV STRATUS system starts up, rules are disabled. You must manually re-enable rules.</p>
Import Rule File Handling	<p>Rename imported files: Assets are renamed if imported via rules conditions by the Rules Engine.</p> <p>Create side-car files: Assets are not renamed during import, but side-car files are created for each imported asset. The side-car file is in XML format with information such as the import start time, end time, import status, and import destination.</p>
Save	Restarts the Rules engine and applies changes.
Cancel	Reverts to previously saved setting.

Consider the Rules Engine setting Startup Mode and the Confirm Activation option when you enable a rule, as the behavior is similar. With the Rules Engine setting you specify the behavior of all currently enabled rules when the Rules Engine starts up. With the Confirm Activation option, you specify the behavior of an individual rule when you manually enable the rule.

Related Topics

[Enabling and disabling rules](#) on page 528

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

Render Engine Settings

These settings are required on GV STRATUS systems.

To locate these settings, in GV STRATUS Control Panel click **Core | Engines | Render Engine | Modify**

Setting or button	Description
Summit Access Protocols	FTP: Setting for FTP protocol to be used by Render Engine to access K2 Summits. CIFS or iSCSI: Setting for CIFS or iSCSI protocol to be used by Render Engine to access K2 Summits.
Maximum Concurrent Proxy Creation Jobs	Setting to specify the maximum number of concurrent proxy encoder jobs allowed on the Render Engine server.
Maximum Concurrent Conform Jobs	Setting to specify the maximum number of concurrent conform jobs allowed on the Render Engine server.
Maximum Concurrent EDIUS Project Jobs	Setting to specify the maximum number of concurrent EDIUS project jobs allowed on the Render Engine server.

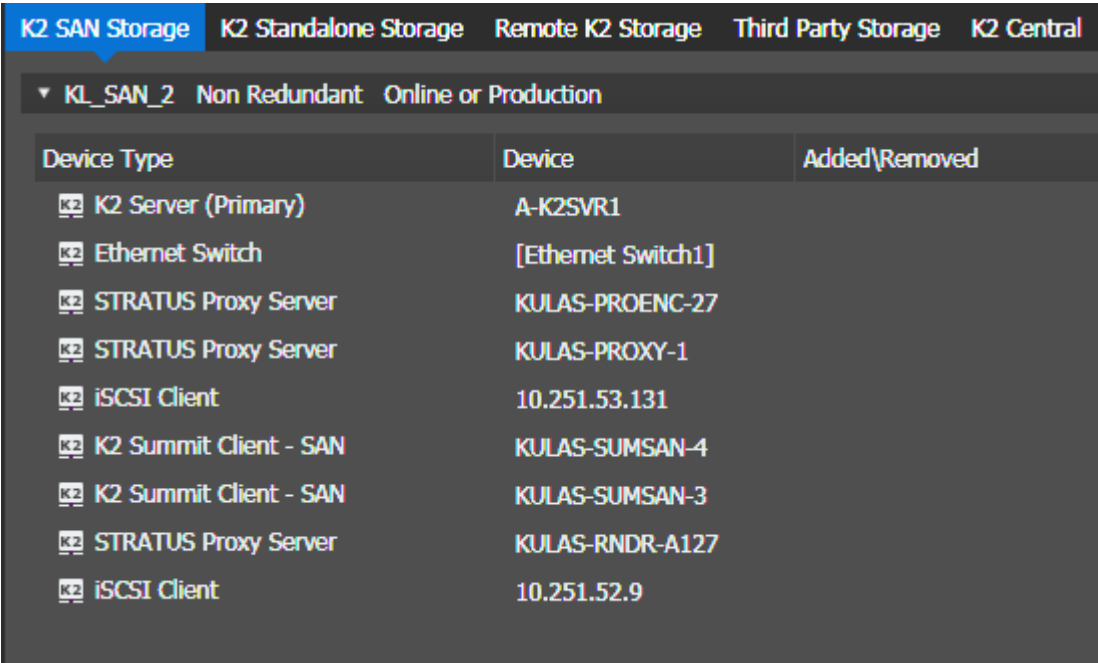
NOTE: The total number of maximum concurrent jobs is limited by the number of available simultaneous connections with K2 Summits. If set to zero, the Render Engine does not process jobs of that type. Use these settings to balance resource load on the system hosting the engine.

K2 Storage settings

K2 Storage settings verify that your K2 Summit/SAN systems are available for configuration. Access these settings in the GV STRATUS Control Panel application.

K2 SAN Storage settings

These settings and/or K2 Standalone Storage settings are required on all GV STRATUS systems. To locate these settings, click **Core | K2 Storage | K2 SAN Storage**



Setting or button	Description
List	The K2 SANs found in K2Config information.
Refresh	Updates the list.

Related Topics

[About redundant K2 SANs](#) on page 350

K2 Standalone Storage settings

These settings and/or K2 SAN Storage settings are required on all GV STRATUS systems. To locate these settings, click **Core | K2 Storage | K2 Standalone Storage**

K2 SAN Storage	K2 Standalone Storage	Remote K2 Storage	Third Party Storage	K2 Central
Device Type		Device		
K2 K2 Summit Standalone		KL_Summit_11		

Setting or button	Description
List	The list of K2 standalone systems found in SiteConfig information.
Refresh	Updates the list.

Remote K2 Storage settings

These settings are optional on GV STRATUS systems.

These settings affect the following:

- Send Destination, when sending from a local site to a remote site

To locate these settings, click **Core | K2 Storage | Remote K2 Storage**

K2 SAN Storage	K2 Standalone Storage	Remote K2 Storage	Third Party Storage	K2 Central
Device Type		Device		
K2 K2 SAN Client		a-k2svr1		
K2 K2 Standalone Client		KL_Summit_13		
K2 K2 Standalone Client		kl_summit_10		
Add		Modify	Remove	

Setting or button	Description
Add	Opens the Add new K2 remote storage dialog box for you to add a remote K2 storage device. You can use the Add button repeatedly to add multiple remote K2 storage devices.
Modify	Opens the Edit K2 remote storage dialog box to modify settings of the selected remote K2 storage device.
Remove	Removes the selected remote K2 storage.

Remote K2 Storage Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | K2 Storage | Remote K2 Storage | Add or Modify**

Setting or button	Description
Type of K2 device	<p>Select Standalone Client for your Standalone K2 Summit system or SAN-attached K2 Summit system.</p> <p>NOTE: Do not select the SAN Client option for your SAN-attached K2 Summit system.</p>
Select K2 Standalone	<p>Do the following:</p> <ul style="list-style-type: none"> For a Standalone K2 Summit system, enter the host name of the remote K2 Summit system. For a SAN-attached K2 Summit system, enter the name of the primary FTP server designated to be the managed device for the entire K2 SAN storage system.
Maximum concurrent transfers	<p>The maximum number of concurrent transfers allowed. The maximum is set in K2Config. You may select the maximum or a lesser number as designed for your system. The number of concurrent transfers as well as the device status can be checked once the system is configured in Resource Monitor of the GV STRATUS Control Panel.</p>
User Name	<p>The user name to access the remote K2 Summit system. This is the internal system account, which by default is GVAdmin.</p>
Domain	<p>If on a domain, the domain that manages the account that accesses the remote K2 Summit system.</p>
Password	<p>The password to access the remote K2 Summit system.</p> <p>NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.</p>

Setting or button	Description
FTP Server Name	The FTP server name for the remote K2 Summit system. For the typical system where there is a separate FTP network, this is the name of the K2 SAN's FTP server with the _he0 suffix added. The _he0 suffix specifies the FTP network.
FTP User Account	The FTP user name for the remote K2 Summit system. This must be a valid account on the local and remote site, such as gvservice\gvadmin. Do not use the "movie" account.
FTP Password	The FTP password for the remote K2 Summit system.

Related Topics

[Remote and multiple site configuration](#) on page 402

Third Party Storage settings

These settings are optional on GV STRATUS systems.

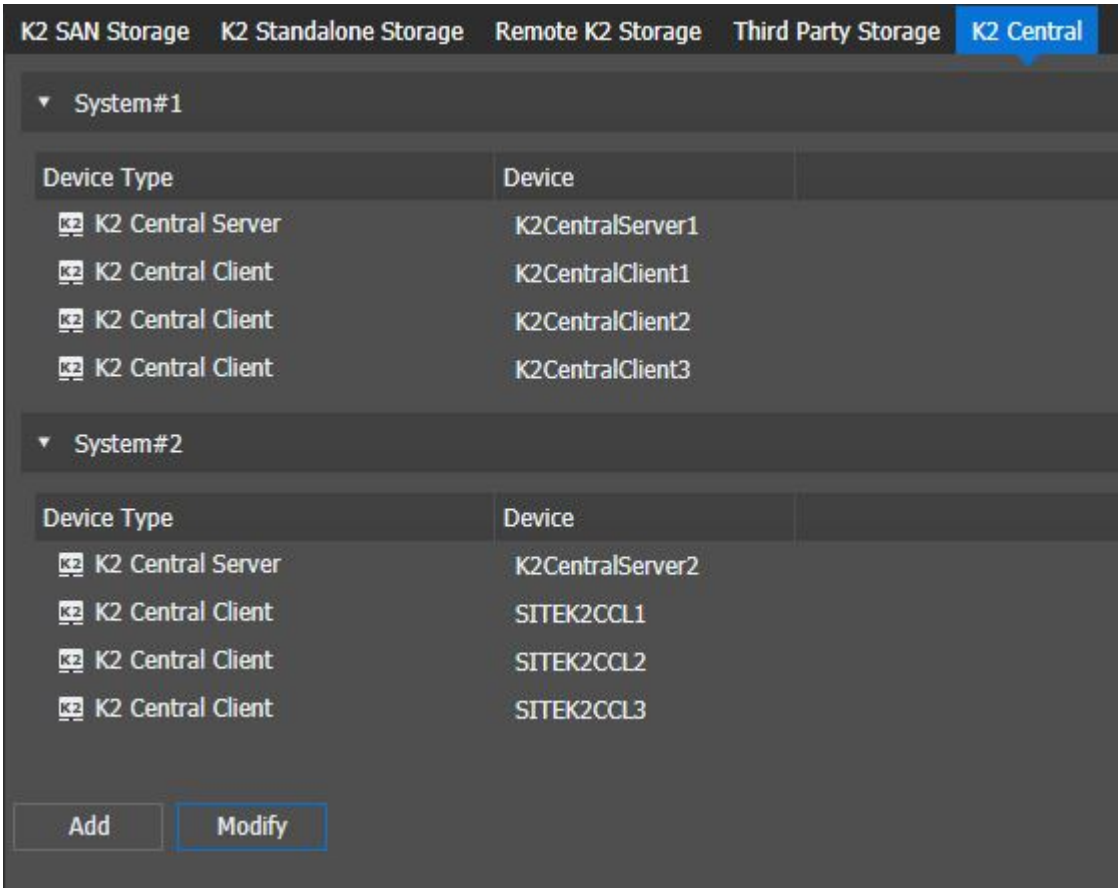
To locate these settings, click **Core | K2 Storage | Third Party Storage**

Setting or button	Description
Storage Server (UNC)	The UNC path of the Storage Server in order to access the third party storage.
Save	Saves the Storage Server UNC path configuration.

K2 Central settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | K2 Storage | K2 Central**



Setting or button	Description
Add	Opens the Add new K2 Central system dialog box for you to add the new K2 Central system in your operation. You can use the Add button repeatedly to add multiple K2 Central storage devices.
Modify	Opens the Modify K2 Central system dialog box to modify settings of the selected K2 Central system.

K2 Central Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | K2 Storage | K2 Central | Add** or **Modify**

NOTE: *It is required that any K2 config files be deleted, and services restarted on the GV STRATUS core server, if originally K2 Central devices had been manually added to these files before configuring K2 Central systems in the GV STRATUS Control Panel.*

Setting	Description
K2 Central Name	<p>The name of the K2 Central system in your operation.</p> <p>The name of the K2 Central system must not be empty and cannot be a duplicate of an already existing K2 Central system.</p>
Clients	<p>Select K2 Summit clients from the drop-down list for your K2 Central system.</p> <p>NOTE: Only 1 to 5 clients can be selected for any one K2 Central system.</p>
Server	<p>The name of the K2 Central server in your system.</p> <p>A K2 Central server must be available and already configured in the Summit MDI SAN settings.</p>

Related Topics

[GV STRATUS Control Panel configuration for K2 Central](#) on page 750

Proxy Config settings

These settings are required on all GV STRATUS systems.

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

Access these settings in the GV STRATUS Control Panel application.

Proxy Settings

These settings are required on all GV STRATUS systems.

To locate these settings, click **Core | Proxy Config**.

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Lite PC, this is the network name of the GV STRATUS Lite PC. For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig. For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config. For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Lite PC, this is the network name of the GV STRATUS Lite PC. For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig. For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config. For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p>

Setting or button	Description
K2 Summit Settings: Enable Proxy Creation	Centralizes the location of proxy storage based on the Proxy Server Settings.
Proxy Encoder Settings: Enable Proxy Encoders	Enables or disables the automatic creation of proxy for high resolution clips. Does not affect the ability to manually create proxy from within the GV STRATUS application for a high resolution clip. Applies only to GV STRATUS systems with Render Engines that are properly configured and licensed.
Test Connections	Tests and reports the connections to the proxy devices.

Related Topics

[Configuring Proxy Config settings: Required](#) on page 647

[Custom Metadata settings](#) on page 267

[HTTP server overview](#) on page 180

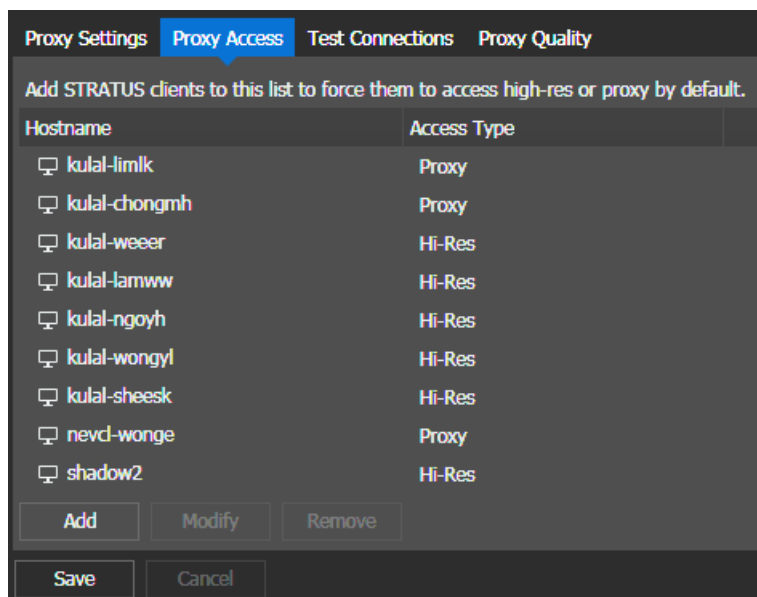
[CIFS storage configuration](#) on page 737

Proxy Access settings

These settings are required on all GV STRATUS systems.

These settings specify the GV STRATUS client PCs that use a high-resolution media workflow, rather than a proxy media workflow. By default, the GV STRATUS application and the EDIUS XS application access low-resolution live streaming and proxy media. If the PC is set to high-resolution in GV STRATUS Control Panel Proxy Access settings, the GV STRATUS application accesses high-resolution media. This also requires a high-resolution license.

To locate these settings, click **Core | Proxy Config | Proxy Access**.



Setting or button	Description
Add	Opens the Add Host Proxy Access dialog box.

Setting or button	Description
Modify	Opens the Modify Host Proxy Access dialog box for the selected client.
Remove	Removes the selected client.

Related Topics

[Set up RMI PC access to high-resolution assets](#) on page 487

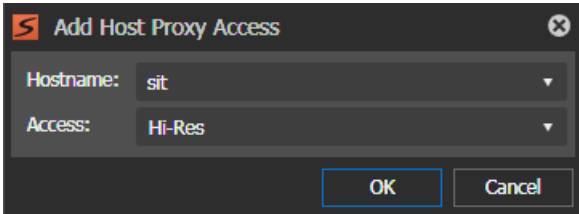
[RMI settings](#) on page 330

[Set GV STRATUS client PC to high-resolution](#) on page 82

Host Proxy Access Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Proxy Config | Proxy Access | Add** or **Modify**

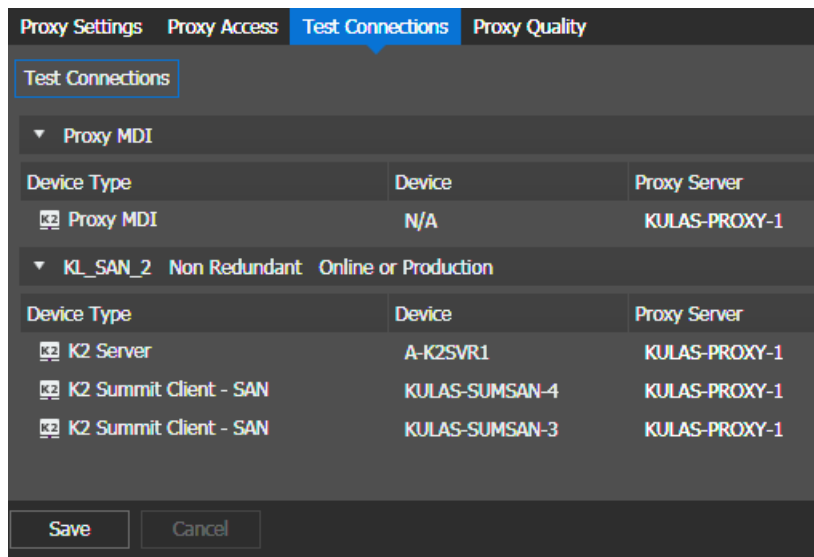


Setting or button	Description
Hostname	The network name of the client device.
Access	Sets the type of access for the client device.

Test Connections settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | Proxy Config | Test Connections**



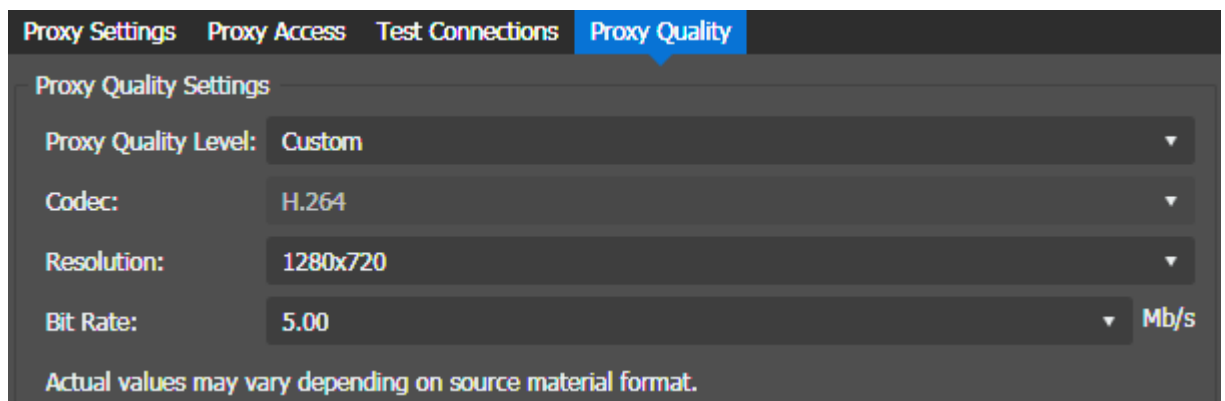
1. Click the **Test Connections** button. The system repopulates device connections in GV STRATUS application.
2. Verify that the list is correct and all devices are connected.

Proxy Quality settings

These settings are optional on all GV STRATUS systems.

These settings specify the quality of the proxy assets created by the GV STRATUS Render Engine. These settings do not affect proxy assets created by K2 Summit systems.

To locate these settings, click **Core | Proxy Config | Proxy Quality**.



Setting or button	Description
Proxy Quality Level	<p>Sets the quality to Low, Medium, High, or Custom. Sets to Low by default.</p> <p>The Custom option lets users customize the resolution and bit rate of proxies.</p> <p>Consider proxy storage capacity, network bandwidth, and proxy creation speed. Increasing quality can impact system performance.</p>

Setting or button	Description
Codec, Resolution, Bitrate	Automatically configured, based on Proxy Quality Level setting. Values are displayed but cannot be changed. If the Custom proxy quality level is selected, you can configure the resolution and bit rate values.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

NOTE: *You must restart the GV STRATUS application each time you change proxy quality settings in the GV STRATUS Control Panel.*

Resource Management settings

These settings apply to all GV STRATUS systems.

The Resource Monitor displays the name and type of Resource Providers and SubResource Providers, the amount of available resources, the number of resources in use, the online status, and enabled status of all resources. The Resource Monitor display refreshes every 60 seconds.

The number of available resources can be configured within the individual MDI, Render Engine, DataMover Engine, and Xcode Control Engine settings. Usually all devices are “Online” and the status can be viewed in the Resource Monitor. In case a device is “Offline”, the administrator should investigate and set the device online again. The reason why a resource is "Offline" might be one of the following: an engine was stopped, a Windows Service was stopped, the MDI was not properly configured, or the network connectivity is interrupted.

Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **Core | Resource Management | Resource Monitor**.

Resource Monitor						
Resource Provider Type	SubResource Provider	Resources	In Use	Online	Enabled	
YouTube	YouTube	0		✓	✓	
XCE	10.251.52.232	4	0			✓
XCE	XCodeControlEngine_KULAS-SC-A127_ThumbnailExt...	10	0	✓	✓	
XCE	XCodeControlEngine_KULAS-SC-A127_K2ClosedCapt...	10	0	✓	✓	
XCE	10.251.53.125	4	0	✓	✓	
XCE	XCodeControlEngine_KULAS-SC-A127_ListTransform...	10	0	✓	✓	
XCE	MEWS	3	0	✓	✓	
XCE	MEWS-ELITE	60	0			✓
XCE	10.251.53.126	4	0			✓
K2-SAN	A-K2SVR1_he0	4	0	✓	✓	
Masstech	MasstechMDI	1	0	✓	✓	
GVRenderEngine	GVRenderEngine_RNDR_Transcode	2	1	✓	✓	
GFTP	FTPTest_he0	4	0	✓	✓	
GFTP	STRATUS-PC_he0	4	0	✓	✓	
SGL	FlashNETMDI	4	0	✓	✓	
DIVA	DivaMDI	1	0	✓	✓	
DME	DataMoverEngine_KULAS-SC-A127_TransferController	100	0	✓	✓	
DME	DataMoverEngine_KULAS-SC-A127_DataPumpContr...	4	0	✓	✓	

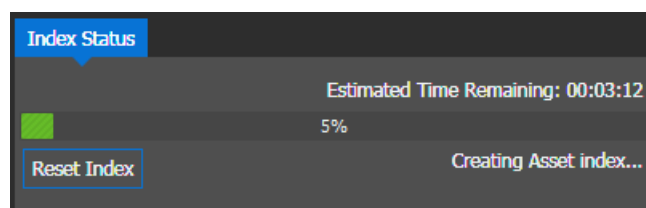
Setting or button	Description
Refresh	Updates resource status of all listed resources instantly in the Resource Monitor when the button is pressed.

Search Index Config settings

These settings apply to all GV STRATUS systems, but use only as advised by Grass Valley.

Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **Core | Search Index Config.**



Setting or button	Description
Reset Index	<p>Recreates all GV STRATUS search indexes. This can take several hours, depending on the size of your GV STRATUS database. The progress bar does not only show the progress of recreating search indexes, but also displays the progress of index updates.</p> <p>NOTE: Once the progress bar reached 100% to mark the completion of recreating asset indexes, the progress bar will return to 0% to indicate the on-going process of index updates.</p> <p>Under normal operating conditions resetting the index is not necessary. Use only as advised by Grass Valley.</p>

Audio Tag Management settings

These settings are optional on GV STRATUS systems.

You can configure audio tags for each channel and create an audio mapping XML file in these settings.

To locate these settings, click **General | Audio Tag Management**

Channel Number	Primary Map	Secondary Map	Play Silence If No Tag Found	
1	fre	eng	<input checked="" type="checkbox"/>	-
2	fre	eng	<input checked="" type="checkbox"/>	-
3	fre	ita	<input type="checkbox"/>	-
4	fre	ita	<input type="checkbox"/>	-

Setting or button	Description
Add Profile	Opens the New Profile dialog to create and name a new audio profile.
Add Channel	Launches a new row to map audio tag settings for the channel.
Channel Number	Adds channel number sequentially each time a channel is added.
Primary Map	Lists all available audio tags to be mapped as the primary audio.
Secondary Map	Lists all available audio tags to be mapped as the secondary audio.
Play Silence If No Tag Found	Mutes the channel when no audio tag is found, if this check box is selected.
-	Removes a channel from the audio mapping profile.
Delete Profile	Removes the selected audio mapping profile.

Setting or button	Description
Save	Saves the audio mapping profile.

Once saved, an audio mapping XML file is created and sent to K2 Summit at this location:

C:\profile\config.

You can also find the audio mapping XML file in the GV STRATUS Core Server at this location:

C:\ProgramData\Grass Valley\ConfigurationDataFiles\Audio Mapping

NOTE: *GV STRATUS does not support simultaneous use of separate Control Panel instances. When another user hits the save button, the source of record and all copies are overwritten. This can lead to lost audio mapping data of the previous user.*

For K2 Central servers, you must start the GV STRATUS K2 Configuration Service manually if the audio mapping file does not exist in K2 Central at this location: *C:\profile\config*

Format settings

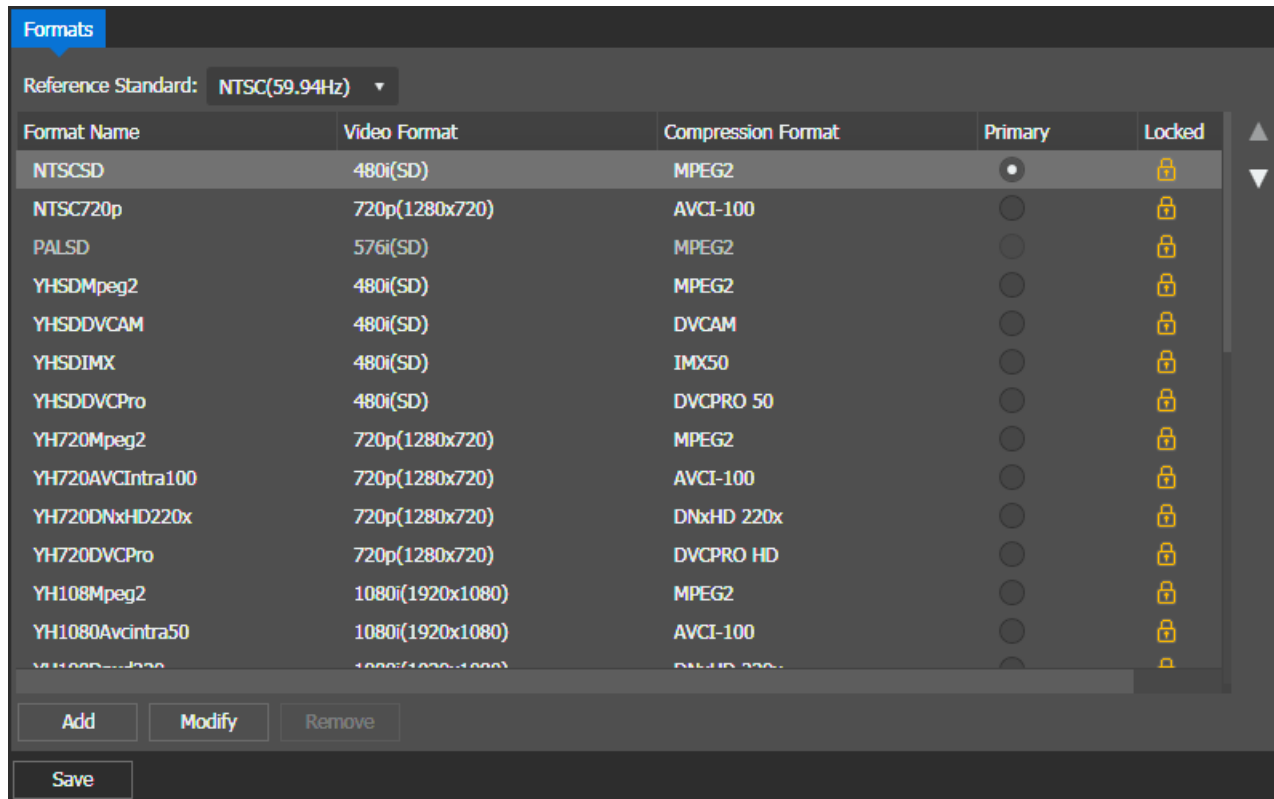
These settings are required on all GV STRATUS systems.

Format settings let you configure video and audio settings. The GV STRATUS application uses these settings as follows:

Conform	When the Render Engine conforms a complex asset, such as a GV STRATUS sequence, into a simple clip, the Format settings define the format of the simple clip.
EDIUS XS	Format settings are inherited by EDIUS XS when the application is launched and a new project is created.
GV STRATUS Rundown	Format settings define the video standard settings, such as PAL or NTSC.
Storyboard and Source Viewer	Format settings define the video standard, audio reference, etc.

Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Format | Formats**.



Setting or button	Description
Reference Standard	Sets the GV STRATUS formats available according to their Reference Standard, to match the current Reference Standard on the K2 system. Formats that do not match this setting are disabled in the list. When changing and saving this setting, a corresponding primary format must be selected.
Format Name, Video Format, Compression Format, etc	Format settings, as configured in the Format Settings dialog box.
Primary	The default format for configuration. For example, when configuring a Send Destination, the primary format is set by default, but a different format can be selected if desired. NOTE: A primary format must be selected. Multiple primary formats are not allowed.
Locked	Indicates if a format name can be modified. A format that is currently configured in a Send Destination displays a closed lock icon. A dialog box prompts for confirmation before a locked format name can be modified.
Add	Opens the Format Settings dialog box for you to add formats.
Modify	Opens the Format Settings dialog box for the selected format.
Remove	Removes the selected format. The format currently selected as the primary format can not be removed.

Setting or button	Description
Save	Saves the current configuration of added formats and their order.

Clicking column heads and/or arrow buttons on the right reorders the list of formats.

Related Topics

[K2 - Send Destination settings](#) on page 307

[Send Destination Add/Modify settings](#) on page 308

[Configuring Format settings: Required](#)

Format Add/Modify settings

These settings are required on all GV STRATUS systems.

To locate these settings, click **General | Format | Formats | Add** or **Modify**.

Setting or button	Description
Format Name	The desired name of the video format. The name must be unique, not considering upper/lower case. The Save button is disabled if invalid characters are entered.
Video Format	The list of available video formats. The SD format available depends on the Formats Reference Standard setting.
Compression Format	The list of available compression formats.
GOP Structure	The GOP Structure setting is only enabled when the selected video format is 720p or 1080i, and the selected compression format is MPEG2.
Chroma Format	The list of available chroma formats.
Bit Rate	The list of available bit rates.

Setting or button	Description
Video Aspects	The list of available video aspects.
Video Resolution	The list of available video resolutions.
Audio Format	The list of available audio formats.
Digital Reference Level	The list of available digital reference levels.

License Management settings

These settings are required on all GV STRATUS systems.

License Management settings assign the STRATUS licenses you have purchased from Grass Valley to different user groups and the roles associated with those licenses to users. Access these settings in the GV STRATUS Control Panel application.

Related Topics

[About groups and users on a GV STRATUS system](#) on page 30

[About Newsroom Basic](#) on page 394

[About Archive/Restore roles](#) on page 393

[GV STRATUS roles matrix](#) on page 158

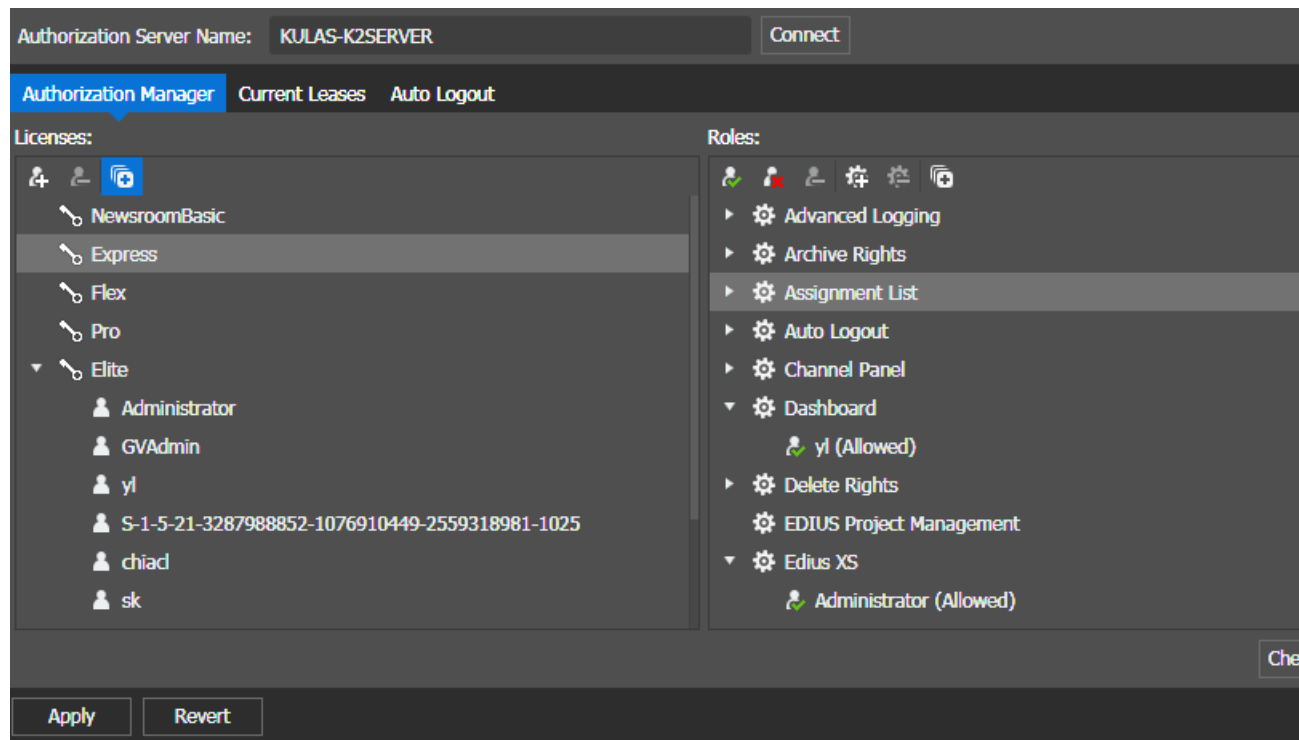
[Adding a custom role](#) on page 394

Authorization Manager settings

These settings are required on all GV STRATUS systems.

If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

To locate these settings, click **General | License Management | Authorization Manager**



Setting or button	Description
Authorization Server Name	The name of GV STRATUS server with role of Common Services.
Connect	Connects to the GV STRATUS server and populates settings. If the Connect button is disabled, it means you are already connected.
Licenses	Settings to assign licenses to user groups. When you select a license and click Assign , you can use standard Windows operating system processes to assign a group to the license. This can be either Workgroup or Domain, as appropriate for your site's user accounts. When you first assign a license to a group, all users in the group are assigned all of that license's roles. These are floating license so you may over-assign. If you over-assign you must ensure that the number of licenses checked out at any one time does not exceed the number of licenses available.
Roles	Settings to assign tools and other functionality to users or groups. When you expand a node and select one of its groups or users, you can allow or deny the group or user the use of that operation. You can also remove the group or user from the node. If a tool is not assigned to a user, when that user logs into the GV STRATUS application, the tool does not appear in the GV STRATUS application. If a new version of GV STRATUS software adds a role to a license, make sure it is assigned correctly to existing users.
Check User	Allows you to check for the selected user or group in your Windows operating system accounts.
Apply	Saves current settings.

Setting or button	Description
Revert	Returns settings to their last saved state.

Related Topics

[GV STRATUS roles matrix](#) on page 158

[Adding a custom role](#) on page 394

Current Leases settings

To locate these settings, click **General | License Management | Current Leases**

Authorization Server Name:

Authorization Manager **Current Leases** Auto Logout

Current leases:

User Name	Client Host	License Type	Expiry
KULAS-SC-A127\GVAdm	10.251.53.20	Elite	10/8/2015 4:14:27 PM
KULAS-SC-A127\Admini	10.251.53.74	Elite	10/8/2015 4:14:02 PM
KULAS-SC-A127\Admini	10.251.53.74	Elite	10/8/2015 4:14:22 PM

Current licenses:

License Type	Checked Out	Availability
Elite	2	18
Express	0	20
Flex	0	20
Newsroom Basic	0	20
Pro	0	20

Setting or button	Description
User Name	A user with a license currently checked out. Right-click a row to revoke the lease.
Client Host	The network machine name of the system on which the user has the license checked out.
License Type	The type of license that is checked out.

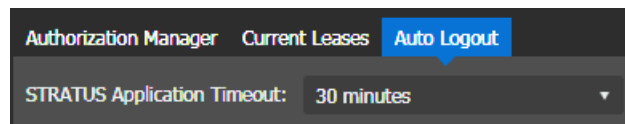
Setting or button	Description
Expiry	The date the license is automatically checked in, if the user has it continuously checked out until that time.
Checked Out	The number of licenses that are currently checked out.
Availability	The number of available licenses that are not currently checked out.
Refresh	Detects licenses currently checked out and updates the tables with any new information.

Related Topics

[Revoking a GV STRATUS license lease](#) on page 400

Auto Logout settings

To locate these settings, click **General | License Management | Auto Logout**



Setting or button	Description
STRATUS Application Timeout	The length of time the PC that hosts the GV STRATUS application must sit idle, with no activity, before that PC's GV STRATUS license is released.

The auto logout process applies only to GV STRATUS user accounts with the role of Auto Logout.

Related Topics

[About Auto Logout](#) on page 160

Rules settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **General | Rules | Rules Monitor**

Workflow Engine

Rules Engine

Xcode Control Engine

DataMover Engine

Rules Monitor

Rule Editor

Name	Description	Status	Scope	Destination	Failed
Export - DMP	DMP		SummitMDI:V:/default	ftp://10.251.53.115/	218
Export - Carbon Cod...			SummitMDI:V:/default	ftp://10.251.53.115/	23
Import - Audio	From NETIA		\\10.251.52.248\outg...	SummitMDI:V:/From...	22
Import - Vantage		Enabled	\\10.251.53.115\ftproot	SummitMDI:V:/FromF...	12
Import2	various transcode for...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	1
Import4	Multiple rule condition...		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
Import6	Overwrite		\\10.251.53.115\FTPT...	SummitMDI:V:/1_Imp...	0
LK Import		Enabled	\\10.251.53.115\FTPT...	SummitMDI:V:/0_Imp...	0
Rule2	Rule trigger every me...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	29
Rule4	Dir changed, metadat...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	1
Rule5	Different transcoder d...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	12
Rule3	Apply rule on complet...		SummitMDI:V:/1_Auto	\\10.251.53.115\FTPT...	11
Rule1	Rule1 - for automatio...	Enabled	SummitMDI:V:/Dyno...	\\10.251.53.115\FTPT...	155

Add

Modify

Properties

Remove

Enable

Simulate

Refresh

Icons indicate Engine status:

- The Engine is licensed and related rules can be enabled.
- The Engine is not running and inaccessible, therefore related rules cannot be enabled.

Setting or button	Description
Add	Opens Rule Editor settings to create a new rule.
Modify	Opens Rule Editor settings to modify the selected rule.
Properties	Opens Rule Editor settings to view properties of the selected rule.
Remove	Removes the selected rule.
Enable/Disable	Enables or disables the selected rule.
Simulate	Simulates the selected rule to list assets affected by the rule.
Refresh	Updates the list of rules and their information.

Above settings can also be accessed via the context menu, by right-clicking on each rule or multiple rules.

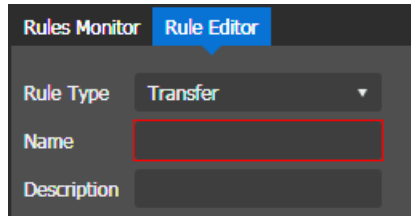
Related Topics

[Configuring Rules](#) on page 487

Rule Editor configuration settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **General | Rules Rule Editor | Add** or **Modify** or **Properties**.



Setting or button	Description
Rule Type	A list of the types of rules available to configure. Depending on the type selected, other settings are available for configuring rules.
Name	The name of the rule. This can be any text.
Description	The description of the rule. This can be any text.

Related Topics

[Configuring Rules](#) on page 487

Locations Config settings

These settings are optional on GV STRATUS systems.

Locations Config settings configure locations that are referenced by features throughout the system, such as the destination of assets that need to be sent for playback or the destination of an export rule. Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Locations Config**.

Related Topics

[Remote and multiple site configuration](#) on page 402

K2 - Send Destination settings

These settings are optional on GV STRATUS systems.

K2 - Send Destinations settings configure the destination of assets that need to be sent for playback. These assets will then be copied to the destination bin. Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Locations Config | K2 - Send Destinations**.

K2 - Send Destinations Locations Configuration				
Name	Destination	Folder	Destination Path	Output Format
Default_transfer	A-K2SVR1	default	V:\default	
ad obe	A-K2SVR1	ad obe	V:\ad obe	
ConformAP	A-K2SVR1	Conform	V:\Conform	
RMI	A-K2SVR1	RMI	V:\RMI	
Timothy	A-K2SVR1	Timothy	V:\Timothy	
Audrey	A-K2SVR1	Audrey	V:\Audrey	
TheBin	A-K2SVR1	TheBin	V:\TheBin	
YH6	A-K2SVR1	YH\YH6	V:\YH\YH6	720pAVCI
timothy213	A-K2SVR1	Timothy213	V:\Timothy213	
sw2	A-K2SVR1	sw2	V:\sw2	NTSCSD
pipu	A-K2SVR1	pipu	V:\pipu	
playout2	A-K2SVR1	playout2	V:\playout2	
3rdLvl	A-K2SVR1	1yl\2ndLvl\3rdLv	V:\1yl\2ndLvl\3rdLv	
Playout	A-K2SVR1	Playout	V:\Playout	
<input type="button" value="Add"/> <input type="button" value="Modify"/> <input type="button" value="Remove"/>				

Setting or button	Description
Add	Opens Send Destination Configuration dialog box
Modify	Opens the Send Destination Configuration dialog box for the selected destination. The only formats available are those compatible with the Reference Standard currently configured in Format settings.
Remove	Removes the selected destination. The only formats available are those compatible with the Reference Standard currently configured in Format settings.

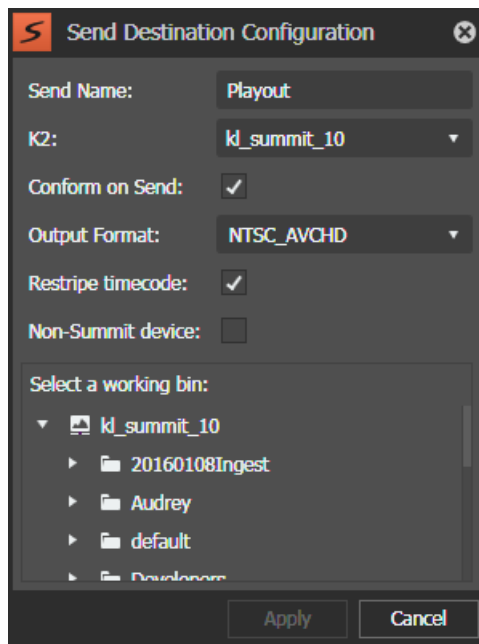
Related Topics

[Format settings](#) on page 119

Send Destination Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **General | Locations Config | K2 - Send Destinations | Add** or **Modify**



Setting or button	Description
Send Name	The name of the destination, as it appears in the Send Destinations list in the GV STRATUS application. This can be any name, as appropriate for your workflow.
K2	<p>The destination system to which the asset is sent.</p> <p>If the destination is a K2 Summit/SAN system, it must be configured in K2 Storage , K2 SAN Storage, K2 Standalone Storage, or Remote K2 Storage settings.</p> <p>If the destination is a redundant K2 SAN system, the same send locations must to be configured for both primary and backup systems.</p> <p>If the destination is specified to use a separate FTP network (typically designated with the <code>_he0</code> suffix), that FTP network must be accessible when configuring these settings.</p> <p>If the destination is not a K2 Summit/SAN system, Non-Summit device must be selected.</p>
Conform on Send	Triggers the Render Engine software component to render a complex asset as a simple clip. It is recommended that the Send Name indicate that the destination is configured for conform.
Output Format	Conform on Send must be selected to populate this setting. This is the output format to which sent assets are conformed. Output formats on the list are configured in Format settings. The only formats available are those compatible with the Reference Standard currently configured in Format settings.

Setting or button	Description
Restripe timecode	When selected, the start timecode of the conformed clip is set according to the EDIUS Start Timecode setting in GV STRATUS Control Panel. This setting is automatically selected when the Conform on Send box is checked. If not selected, the start timecode of the conformed clip is set according to the original timecode.
Non-Summit device	Identifies the destination system as one on which K2 Summit/SAN services are not running. When selected, an Enter working bin field opens. This is the bin on the destination system to which the asset is sent. The bin name must be entered manually, as only systems running K2 Summit/SAN services can populate a list of available bins/directories. <i>NOTE: When this option is selected, the settings applied for the destination system name and working bin name must be valid and accessible on the network. The GV STRATUS system does not attempt to validate the settings and does not provide any messages if not valid when applied.</i>
Select a working bin	The bin on the selected K2 system to which the asset is sent. This list of available bins does not appear if Non-Summit device is selected.

Related Topics

[Format settings](#) on page 119

[Remote Sites settings](#) on page 249

Locations Configuration settings

These settings are optional on GV STRATUS systems.

Locations Config settings configure locations that are referenced by features throughout the system; such as Send to Avid destinations, Transfer to Avid rule destinations, and location of destinations for the Scheduled Transfer tool. Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Locations Config | Locations Configuration**.

K2 - Send Destinations Locations Configuration					
Name	Description	Location	User Account	Source / Destination	Useable by
AvidPC	10.251.52.9	\\10.251.52.9\Avid MediaFiles\MXF	GVAdmin	Destination	Avid Media Composer
Domain	10.251.52.24	\\10.251.52.24\Avid MediaFiles\MXI	Administrator	Destination	Avid Media Composer
ff_storage		\\192.168.66.99\ff	GVAdmin	Destination	Scheduled Transfer
ff_storage2		\\192.168.66.99\ff2	GVAdmin	Destination	Scheduled Transfer
ff_storage3		\\192.168.66.99\ff3	GVAdmin	Destination	Scheduled Transfer
ff_storage4		\\192.168.66.99\ff4	GVAdmin	Destination	Scheduled Transfer
<div> Add Modify Remove </div>					

Setting or button	Description
Add	Opens Locations Configuration dialog box
Modify	Opens the Locations Configuration dialog box for the selected location
Remove	Removes the selected location

Related Topics

[Configure Avid Media Composer send destinations](#) on page 545

[Configure Avid ISIS send destinations](#) on page 547

[Configure Avid Interplay send destinations](#) on page 550

[Configure Scheduled Transfer send locations](#) on page 336

Locations Configuration Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **General | Locations Config | Locations Configuration | Add** or **Modify**

Setting or button	Description
Location Name	The name of the location, as it appears in the application. This can be any name, as appropriate for your workflow.
Description	Your description of the location.
Source / Destination	Specifies whether the destination is a source, a destination, or both.
Useable by	Specifies the system features and components that can use the location.
Location Path	The path to the location. Can be CIFS, FTP, or HTTP.
Location Path Credentials	The credentials required to access the location.
Host Name	The host name of the Avid ISIS storage location. This setting is only applicable when Avid ISIS system is selected.

Setting or button	Description
Audio mapping	<p>Specifies the audio track mapping of assets to be exported into Avid system. Assets with more than 24 audio tracks per asset need this audio mapping (applicable to Media Composer version below 8.5) to ensure the right audio tracks are transferred into Avid. To set the audio mapping profile, select one from the following:</p> <ul style="list-style-type: none"> 24 Tracks - 1 to 1: The audio mapping profile with automatic 1 to 1 mapping of first 24 audio tracks of the asset. <i>NOTE: Silent tracks are generated in case there are less audio tracks available.</i> 16 Tracks - Mix: The audio mapping profile with combination of 16 audio tracks that can be configured on the file level per project under “C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\MEWS”, usually on Core Server, with the NotePad. This profile is just an example and must be configured per system. None: All audio tracks up to 24 tracks will be exported with the asset into Avid system. This is the default setting for assets with no more than 24 audio tracks.

Related Topics

[Configure Avid Media Composer send destinations](#) on page 545

[Configure Avid ISIS send destinations](#) on page 547

[Configure Avid Interplay send destinations](#) on page 550

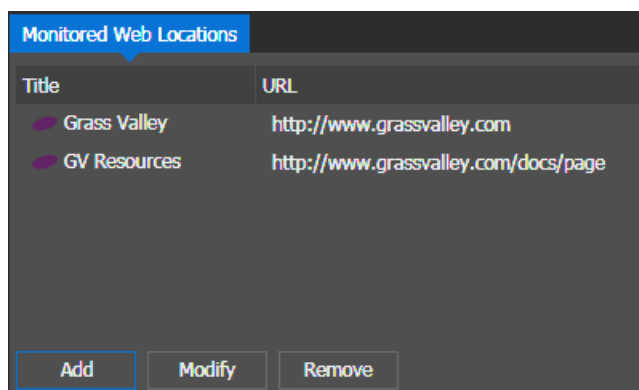
[Configure Scheduled Transfer send locations](#) on page 336

Web Monitor Config settings

These settings are optional on GV STRATUS systems.

Web Monitor Config settings let you assign web addresses for display in the Web Monitor tool. Access these settings in the GV STRATUS Control Panel application.

To locate these settings, click **General | Web Monitor Config**.



Setting or button	Description
Add	Opens New Web Monitor dialog box
Modify	Opens the Web Monitor dialog box for the selected Web Monitor URL
Remove	Removes the selected Web Monitor URL

Web Monitor Add/Modify settings

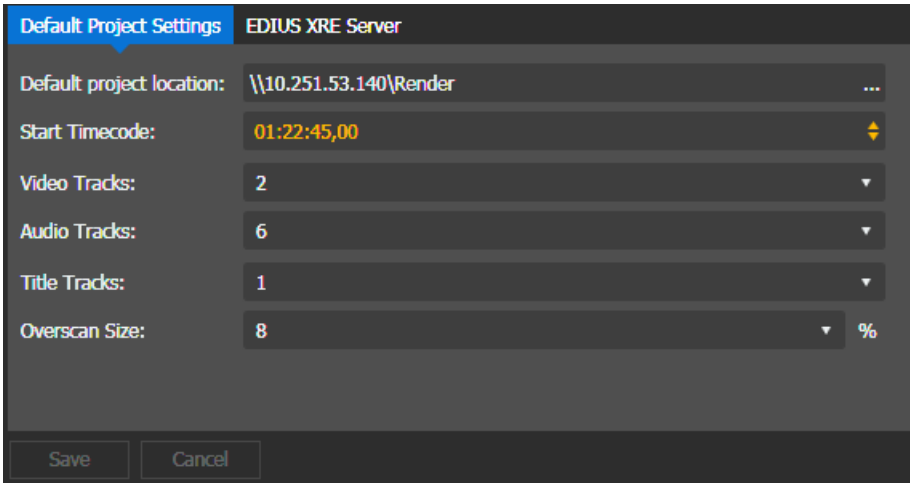
To locate these settings, click **General | Web Monitor Config | Add** or **Modify**

Setting or button	Description
Title	The name of the Web Monitor, as displayed in the Navigator panel of GV STRATUS application.
URL	The web address of the web page displayed in the Web Monitor panel.
Role Required	If selected, only users with the specified role could view the configured Web Monitor.
Show in Dashboard	When the checkbox is selected, the configured Web Monitor displays as a tab on the Dashboard panel only. If not selected, the configured Web Monitor displays in the Navigator panel of GV STRATUS application.

EDIUS Project Settings

These settings are only required on GV STRATUS systems with EDIUS XS.

To locate these settings, in GV STRATUS Control Panel click **Applications | EDIUS | Default Project Settings**



Setting or button	Description
Default project location	The default location for your EDIUS XS projects. The location is a folder on K2 storage. Make sure this path uses the standard convention of UNC path with hostname (not drive letter) for EDIUS access to K2 storage.
Start timecode	The start timecode of your project or conformed asset. The default is set to 00:00:00,00.
Video Tracks	The number of video tracks for your project.
Audio Tracks	The number of audio tracks for your project.
Title Tracks	The number of title tracks for your project.
Overscan Size	The percentage ratio of overscan size for your project. Set to 0 if you are not using the overscan feature.

Format settings define the format of projects.

Related Topics

[Format settings](#) on page 119

[If you have trouble launching EDIUS XS](#) on page 124

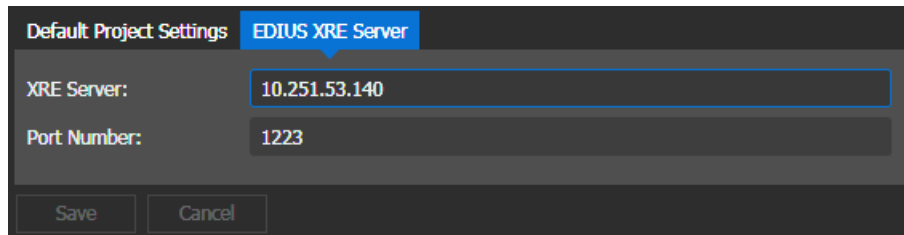
[Access K2 storage for EDIUS using standard convention](#) on page 232

[Access K2 storage for EDIUS using standard convention](#) on page 232

EDIUS XRE Server Settings

These settings are only required on GV STRATUS systems with EDIUS XS.

To locate these settings, in GV STRATUS Control Panel click **Applications | EDIUS | EDIUS XRE Server**



Setting or button	Description
XRE Server	The name or IP address of the EDIUS XRE Server. This server performs a rendering process when exporting a project created in the EDIUS XS.
Port Number	The port assigned for communication with the EDIUS XRE Server. The default port number is 1223.

Related Topics

[If you have trouble launching EDIUS XS](#) on page 124

Ingest settings

Ingest settings let you configure feed ingest settings for the Scheduler, VTR ingest settings for the GV STRATUS VTR Ingest, set up K2 system channels to record clips, and set up record locations. These settings are persistent in their control of K2 system channels and cannot be overridden by K2 AppCenter or other GV STRATUS application tools, such as Channel Panel. Access the Ingest settings in the GV STRATUS Control Panel application.

Ingest settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Ingest | Ingest Settings**

Ingest

Ingest Settings Channel Setup Location Setup Timeline Information

☒ Enable option to switch aspect ratio

Default Aspect Ratio: 16:9

▼ Feed Ingest

Ingest Server: 10.251.52.127

Default Feed Name: gyld-nebula

Default Start Time Offset: Next Hour

Default Duration : 00:04:59,00

Default Crash Duration : 00:10:00,00

Recurring Date Format:

▼ VTR Ingest

☒ Use Router

Default Clip Name: Clip

Default Record Location: default

In Handle: 00:00:00,00

Out Handle: 00:00:00,00

Pre-roll Duration: 00:00:05,00

Save

Setting or button	Description
Enable option to switch aspect ratio	The aspect ratio can only be changed if you are recording to an SD channel.
Default Aspect Ratio	Default aspect ratio for ingests. The default aspect ratio is set to 16:9.
Ingest Server	IP address or machine name where Core Services Server resides. The Ingest Server is automatically populated if you install using Site Config.
Default Feed Name	Default feed name for events in Scheduler unless you enter a specific name for the event in the Channel panel or event properties.
Default Start Time Offset	Default start time offset from the time you schedule the event. The minimum offset is 1 minute and the maximum offset that you can set is 1 hour from the current time.
Default Duration	Default duration for any feed event that you want to schedule. The default duration is set to 59 minutes and 50 seconds.
Default Crash Duration	Default duration for crash records. The default duration is set to 59 minutes and 50 seconds.
Recurring Date Format	Specific date format for your recurring event.

Setting or button	Description
Use Router	Enable ingest operation for GV STRATUS VTR Ingest to be done via a router, if selected.
Default Clip Name	Default clip name for assets ingested via the GV STRATUS VTR Ingest application, if you don't enter specific clip names for those assets.
Default Record Location	Default record location for assets ingested using the GV STRATUS VTR Ingest application, if you don't enter specific location for those assets.
In Handle	Duration to be added before the ingested asset. Handles allow you to have additional frames to use while editing.
Out Handle	Duration to be added after the ingested asset.
Pre-roll Duration	Duration of pre-roll to be set before ingest operation starts.

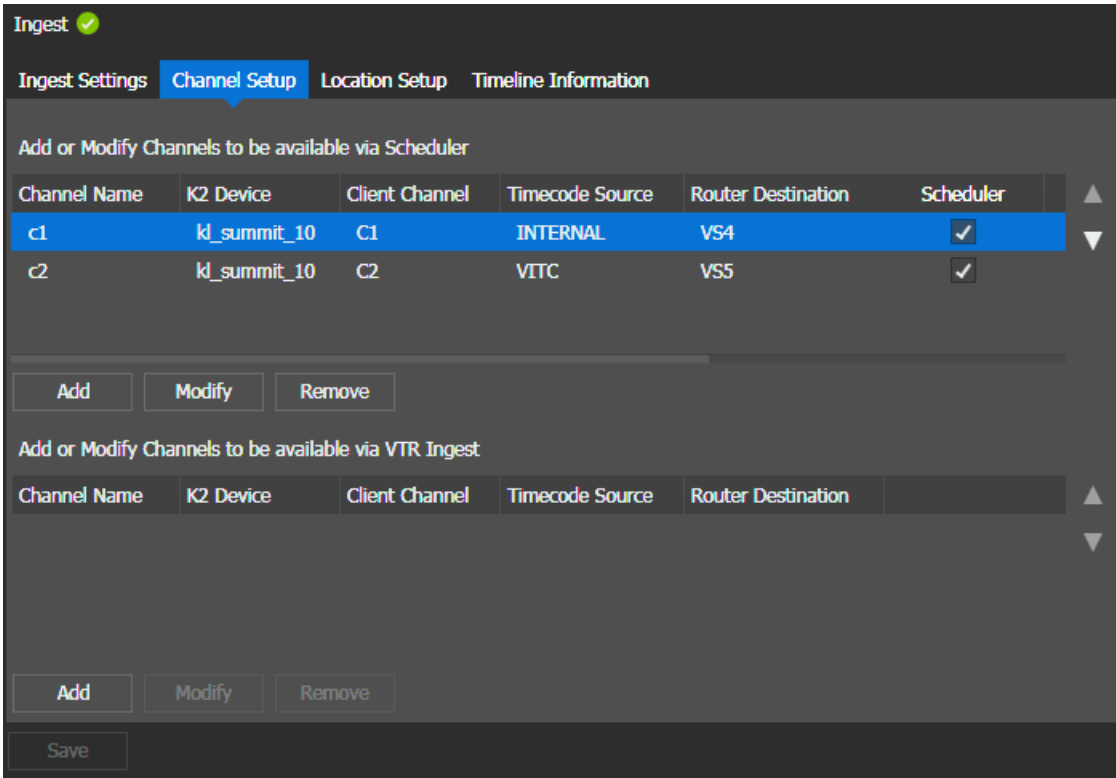
Ingest Service status indicator — Shows the connection status between Ingest core service, Scheduler tool, and GV STRATUS VTR Ingest application.

-  — Connected
-  — Disconnected

Channel setup settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Ingest | Channel Setup**



In the Scheduler section, you can add and organize Scheduler tool channel groups. In GV STRATUS Navigator, channel groups are displayed as individual Scheduler tools under the parent Scheduler tool. Each channel group can be launched as a Scheduler tool and can be configured to display a sub-set of Scheduler channels.

- Each row represents a Scheduler channel. Channels can be reordered higher/lower using up/down arrows.
- Each column on the right-hand side of the **Scheduler** column represents a channel group. Added channel groups can be reordered left/right using drag-and-drop. The left-right order is displayed as a top-bottom order in GV STRATUS Navigator.

Setting or button	Description
Channel Name, K2 Device, etc	Channel settings, as configured in the Add/Modify Channel dialog box.
Scheduler	Rows selected in the column define the channels displayed in the Scheduler tool. If a channel is not selected, it is not displayed in the parent Scheduler tool or in any channel groups. This column cannot be removed or its position altered.
+	Opens the Add Channel Group dialog box, which defines and adds a new channel group. Rows selected in the column define the channels displayed on the added channel group.
X	Removes an added column.
Add	Opens the Add Channel dialog box for you to add channels for Scheduler or GV STRATUS VTR Ingest.
Modify	Opens the Modify Channel dialog box for the selected channel.

Setting or button	Description
Remove	Removes the selected channel. NOTE: Events set to Auto-Assign in the channel must be removed prior to the channel's removal.
Save	Saves the current configuration of added channels and their order.

Arrow buttons on the right reorder selected channels. The channel order is displayed in the Scheduler tool. The channel order is not displayed in GV STRATUS VTR Ingest. The **Save** button must be clicked to save a new configuration. A prompt to save settings and restart ingest services opens to implement the change.

NOTE: Stop ingest operations before services restart. Scheduled feed recordings or GV STRATUS VTR Ingest operations can be affected while services restart.

Ingest Channel Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Ingest | Channel Setup | Add or Modify**

Setting or button	Description
Channel Name	Name for channel, as displayed in the GV STRATUS application. This can be any text, as desired to support your workflow.
Type of K2 device	The type of K2 device that you can choose is either SAN client or Standalone client.

Setting or button	Description
SAN Name	The K2 SAN system name, if you chose SAN client.
Primary Device	The primary device in the SAN that you want to use with the Scheduler.
Select K2 Standalone	The K2 Standalone system name, if you chose Standalone Client.
Channel Type	Sets the type of channel, either Player/Recorder or Multicam, on the K2 Summit system and provides the appropriate number of video inputs available per channel in the Scheduler tool.
Client Channel	The channel you are using to record, such as C1, C2, C3, etc. Ensure that the channel will not be in Continuous Record mode when you are using it for Scheduler record. This setting is persistent in its control of K2 system channels and cannot be overridden by K2 AppCenter or other GV STRATUS application tools, such as Channel Panel.
Router Destination	The router destination for the channel. If you haven't configured your router sources or are not using a router in your operation, the drop-down list is empty. If Channel Type is Multicam, two router destinations are available.
Timecode Format	The timecode source for the channel. You can choose from Internal, LTC, ancLTC, Time of Day, VITC, and ancVITC as appropriate for the HD/SD configuration of the channel. NOTE: For a GV STRATUS VTR Ingest channel, the timecode format should be the same with your timecode setting in GV STRATUS VTR Controller.
Account used to connect to K2 Device	User name, domain, and password to connect to the K2 device, if required to do so. NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

Related Topics

[Characters not allowed in router source and destination IDs](#) on page 485

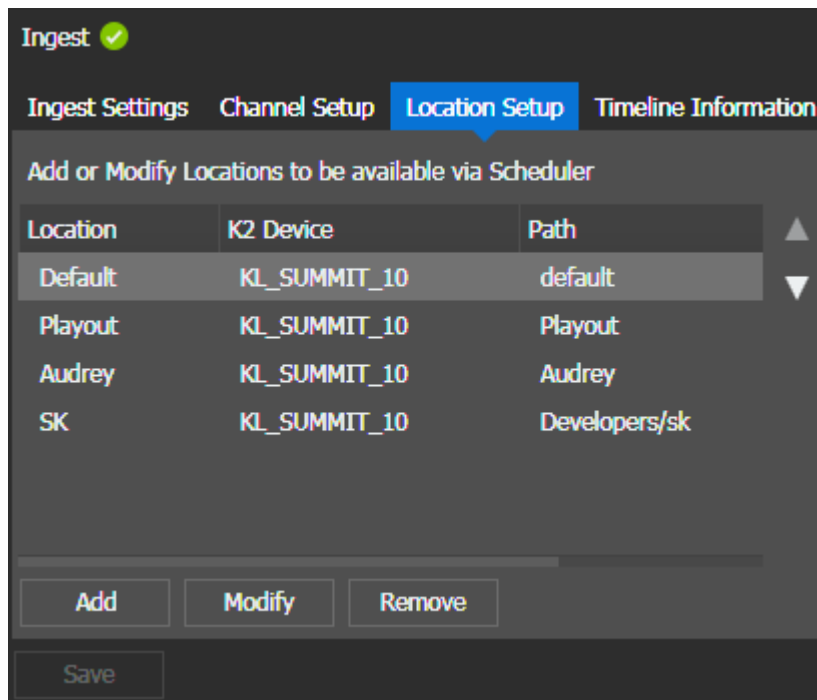
[About timecode source and clock synchronization](#) on page 354

[Fully qualified domain configuration](#) on page 725

Ingest Location Setup settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Ingest | Location Setup**



Setting or button	Description
Add	Opens the Add Location dialog box.
Modify	Opens the Modify Location dialog box for the selected location.
Remove	Removes the selected location.

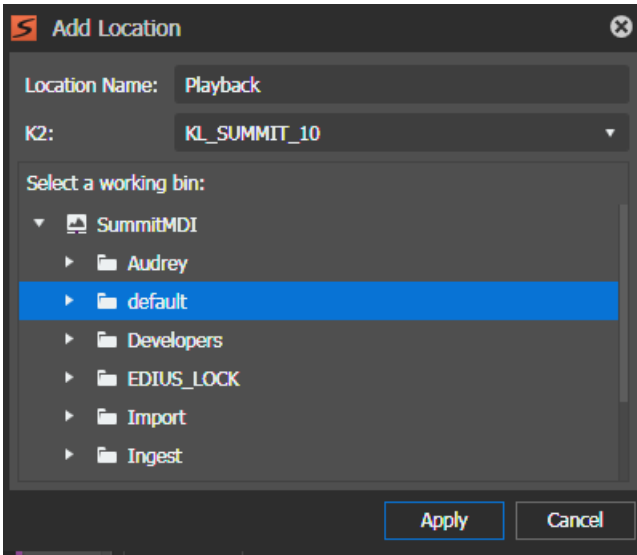
If you want to reorder the location list, select a location and click arrow buttons on the right to move up or down. Then, click **Save** to save the new configuration. Ingest services will be restarted to implement the change.

NOTE: *While Ingest services restart, scheduled feeds may not start on time. Therefore, check Scheduler before modifying locations to ensure that no events are scheduled to start immediately.*

Ingest Location Add/Modify settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Ingest | Location Setup | Add or Modify**



Setting or button	Description
Location Name	Location name on the K2 system that you want to store your recording into.
K2	The K2 system that you want to store your recording into. Only K2 standalone system or K2 SAN-attached system that have been configured in your operation can be selected from the drop-down list.

Timeline Information settings

To locate these settings, click **Applications | Ingest | Timeline Information**.

Ingest ✔

Ingest Settings **Channel Setup** **Location Setup** **Timeline Information**

- Use the list below to configure how properties are presented to the user in the Feed Ingest Timeline.
- Drag and drop properties to modify the order in which they appear in the Feed Ingest Timeline.

Property	Show
c_bool	<input type="checkbox"/>
Name	<input checked="" type="checkbox"/>
Start Date	<input checked="" type="checkbox"/>
Tags	<input checked="" type="checkbox"/>
End Date	<input checked="" type="checkbox"/>
Event Duration	<input checked="" type="checkbox"/>
Permissions	<input checked="" type="checkbox"/>
Description	<input type="checkbox"/>
Asset Duration	<input type="checkbox"/>
Rating	<input checked="" type="checkbox"/>
c_Timecode	<input checked="" type="checkbox"/>
Router Source	<input type="checkbox"/>
c_Text50	<input type="checkbox"/>
Type	<input type="checkbox"/>

Revert

Save

You can select event property fields to be displayed on the Scheduler timeline. The **Name** property is a mandatory field and cannot be disabled. If configured in the Metadata section and given full permissions, custom metadata can also be selected to be displayed.

You can also drag and drop property fields in this setting to reorder the display on scheduled events. To sort the property fields based on entries of the column, click a column head. To reverse the sort order, click the column head again.

NOTE: *Scheduler supports the event property display up to 8 property fields for single camera recordings, and 7 property fields display for Multicam recordings.*

Timeline information display is only available on the Track View mode of the Scheduler tool.

Setting or button	Description
Property	The name of the property field.
Show	Rows selected in this column define property fields to be displayed on scheduled events.
Save	Saves the current settings. Ingest services will be restarted each time users saved the settings.
Revert	Discards any new settings and reverts to the last saved settings.

Rundown settings

Rundown settings configure the Simple Database (SDB) Server, XMOS Server, and K2 systems for the purpose of playout. The GV STRATUS application supports GV STRATUS Rundown for news broadcast operations. GV STRATUS Rundown server component settings are automatically populated if you install using SiteConfig. Access these settings in the GV STRATUS Control Panel application.

Format settings define the video standard.

You must run GV STRATUS Control Panel from the GV STRATUS Core server in order to make changes to Rundown settings.

If you change any Rundown settings, you must restart the SDB server. A restart of the Newsroom Computer system might also be required.

If you change the GV STRATUS Database Server setting in the GV STRATUS Core Services settings, you must do the following to propagate the change for GV STRATUS Rundown operations:

1. Launch and save settings.
2. Restart the SDB server.

Refer to related topics in the this Topic Library to configure playout channels in the GV STRATUS Rundown application.

Related Topics

[Format settings](#) on page 119

XMOS Server settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Rundown | XMOS**

XMOS	SDB	Media	Remote Sites
XMOS Server:	kd_playout1		
MOS ID:	gv.qa.mos		
NCS ID:	OCTOPUS		
NCS MOS Server:	OCTOPUS7		
MOS Version:	2.8.2 ▼		
Save			

Setting or button	Description
XMOS Server	IP address or machine name where the XMOS Server resides. The XMOS Server is automatically populated if you install using Site Config.
MOS ID	<p>The MOS ID that you are going to use in your operation.</p> <p>In ENPS, see ENPS System Maintenance MOS Configuration in the ID column.</p> <p>In iNEWS, this value matches the <mos> value within the configuration file on the iNEWS MOS Gateway at C:/Program Files/Avid/MOS Gateway/mosconfig.xml.</p> <p>In Octopus, see Admin MOS Devices.</p>
NCS ID	<p>Name of the machine hosting your newsroom computer system:</p> <p>For ENPS, the name of the ENPS Server. If you have an ENPS Buddy server, you need to enter both the main and buddy server names in both the NCS ID and NCS MOS Server fields, in the format "MAIN,BUDDY".</p> <p>For iNEWS, the name of the iNEWS Server.</p> <p>For Octopus, see Admin MOS Devices.</p>
NCS MOS Server	<p>Name of the machine hosting the NCS MOS Server component:</p> <p>For ENPS, the same value you entered for the NCS ID.</p> <p>For iNEWS, the name of the iNEWS MOS Gateway machine.</p> <p>For Octopus, the name of the Octopus Server machine.</p>
MOS Version	The version number of MOS you are using. Refer to compatible versions in this Topic Library. If your version is unknown, leave the setting at the default value.

SDB Server settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Rundown | SDB**

The screenshot shows the SDB configuration window with the following settings:

- SDB Server:** 10.10.10.1
- Backup SDB Server:** (empty)
- Database Identifier:** QA
- SDB Thumbnail Path:** C:\GV STRATUS Rundown\Thumbnails\
- Rundown Status:** Monitor all rundowns
- Story Categories:** All, BREAK, Cat01
- Story Types:** SOT, VO, Type01

Setting or button	Description
SDB Server	IP address or machine name where the SDB Server resides. The SDB Server is automatically populated if you install using Site Config.
Backup SDB Server	IP address or machine name that hosts the backup SDB Server, if available.
Database Identifier	ID for the database, up to 4 characters, such as your station call letters. All clip IDs will begin with this identifier.
SDB Thumbnail Path	The path where clip thumbnails are stored.
Rundown Status	Display of rundown status; either Monitor all rundowns or Monitor open rundowns only .
Story Categories	Story categories are used to sort and assign placeholders in the Assignment List.
Story Types	The story type for placeholders. Default story types are SOT (Story on Tape) and VO (Voice Over).

Media settings

These settings are optional on GV STRATUS systems.

When selecting the ingest client for Payout File Transfer, you have the option to use the **Auto Transfer** feature to automatically transfer media from a source (ingest) server to a destination (playout) server.

For the MOS Redirection workflow with ENPS, you must select the **Auto Transfer** feature and add K2 media servers for Payout File Transfer.

To locate these settings, click **Applications | Rundown | Media**

The screenshot shows the 'Media' configuration window. At the top, there are tabs for 'XMOS', 'SDB', 'Media' (which is highlighted), and 'Remote Sites'. Below the tabs, the 'Media Directory' is set to 'playout'. There are two main sections for client management. The first section, 'Add or Remove Payout Clients:', contains a list with two entries: 'Stratus_SM_2' and 'KL_SUMMIT_7'. The second section, 'Add or Remove Ingest Clients for Payout File Transfer:', has a checked checkbox for 'Auto Transfer' and a list with one entry: 'kulas-sumsan-6'. A 'Save' button is located at the bottom left of the window.

Setting or button	Description
Media Directory	Name of the default folder where playout media is sent to.
Add (+)	Opens the Add media server dialog. It lets you either define the playout server or ingest server that accommodates Payout File Transfer. For the MOS Redirection workflow with ENPS, the K2 media server must be configured and added for Payout File Transfer.
Remove (-)	Removes the selected media server.

Setting or button	Description
Auto Transfer	<p>Auto Transfer lets you automatically transfer assets from an ingest server to a playout server. The Auto Transfer takes place only when assets recorded on the ingest server is associated with a placeholder that is part of a MOS active rundown.</p> <p>NOTE: A media server can only be either a source or destination for Auto Transfer, so the same media server should never be added to both the playout and ingest sections.</p> <p>For the MOS Redirection workflow, the Auto Transfer checkbox must be selected to enable transfer of media between machines and locations automatically via ENPS. When MOS Redirection is triggered and stories with linked placeholders containing media are moved from one location to another, ENPS automatically transfers the media contained in those stories. This workflow supports automatic transfer of media between servers within a single newsroom, or between multiple newsrooms and servers in different locations. For stories with unlinked placeholders, only the placeholder gets created at the other location.</p>

Related Topics

[Configuring MOS Redirection workflow with ENPS](#) on page 1078

Rundown Add/Modify Server settings

These settings are optional on GV STRATUS systems.

A K2 system that is a playout or ingest client must have a Summit MDI configured in GV STRATUS Control Panel. Refer to related topics in this Topic Library.

For the MOS Redirection workflow with ENPS, the K2 media server must be configured and added for Playout File Transfer.

To locate these settings, click **Applications | Rundown | Media | Add or Remove Playout Clients / Ingest Clients for Playout File Transfer | +**

Setting or button	Description
Type of K2 device	You can choose either SAN Client or Standalone Client in your operation.
SAN Name	Name of the K2 SAN-attached system if you chose SAN Client.

Setting or button	Description
Primary Device	Name of the primary device in the SAN that you want to use.
Select K2 Standalone	Name of the K2 Standalone device if you chose Standalone Client.

Related Topics

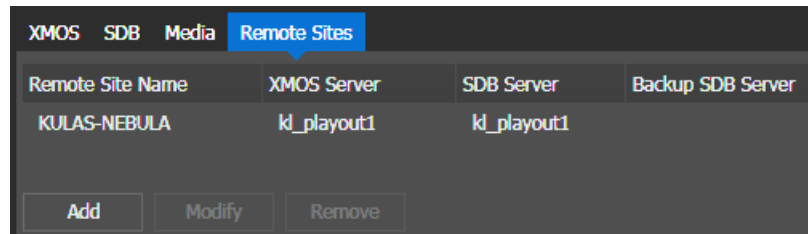
[Summit MDI standalone settings](#) on page 255

[Summit MDI SAN settings](#) on page 257

Rundown Remote Sites settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Rundown | Remote Sites**



Remote Site Name	XMOS Server	SDB Server	Backup SDB Server
KULAS-NEBULA	kd_playout1	kd_playout1	

Add Modify Remove

Setting or button	Description
Add	Opens the Add Remote Site dialog box for you to add a playout remote site. You can use the Add button repeatedly to add multiple remote sites.
Modify	Opens the Edit Remote Site dialog box to modify settings of the selected remote site.
Remove	Removes the selected remote site.

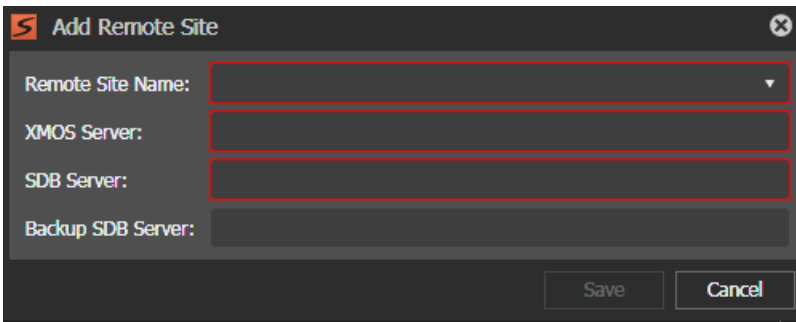
Related Topics

[Remote and multiple site configuration](#) on page 402

Rundown Add/Modify Remote Site settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Rundown | Remote Sites | Add** or **Modify**

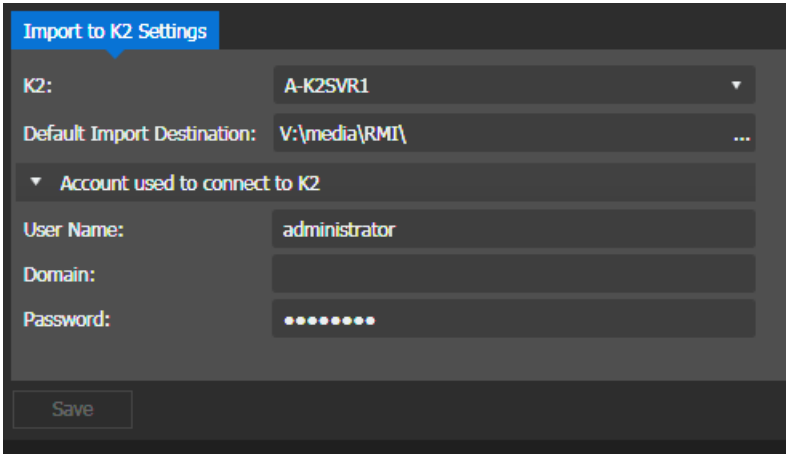


Setting or button	Description
Remote Site Name	Customizable name that has been set for your remote site. Only remote sites that have been configured in GV STRATUS Core Services Remote Sites settings can be selected from the drop-down list. Select None if there is no GV STRATUS Core Services server at the remote site.
XMOS Server	The IP address or machine name where the remote XMOS Server resides.
SDB Server	The IP address or machine name where the remote SDB Server resides.
Backup SDB Server	The IP address or machine name that hosts the backup of remote SDB Server, if available.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

After remote sites have been configured, you can see these remote sites in the Assignment List and Link to Placeholder tab of the Inspector and Send Destinations dialog box.

RMI settings

These settings are optional on GV STRATUS systems.
To locate these settings, click **Applications | RMI | Import to K2 Settings**



Setting or button	Description
K2	Name of K2 Summit/SAN system to import RMI clips directly into.
Default Import Destination	The default import destination for your RMI clips. If GV STRATUS security is enforced, the destination must allow write permissions for user accounts that import assets.
User Name	User Name to log on into the K2 Summit/SAN system.
Domain	The domain name in your system, if needed.
Password	Password to log on. <i>NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.</i>

There are connection and configuration requirements for the GV STRATUS client PC on which the RMI tool is used. Refer to related topics in this Topic Library.

Related Topics

[Set up RMI PC access to high-resolution assets](#) on page 487

[Proxy Access settings](#) on page 293

[Fully qualified domain configuration](#) on page 725

Router settings

Router settings configure the router connection and associate router sources, such as Encore, SMS7000, and Jupiter routers. Access these settings in the GV STRATUS Control Panel application.

Router Connection settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Router | Connection**

Setting or button	Description
Router Service Host	IP address or computer name that hosts the Router Service. This is populated automatically if you use SiteConfig for installation.
Router Type	Router types include Encore, SMS7000, and Jupiter. However, you need to select Encore/SMS7000 from the Router Type drop-down list if you use Jupiter with the AccuSwitch application.
Primary server	IP address or the primary server of the router, if you chose Encore/SMS7000.
Port	Port number that the router needs to connect to.
Secondary Server	IP address or the secondary server of the router, if available.
COM Port	COM port number that Jupiter needs to connect to if you choose Jupiter on the Router Type drop-down list. NOTE: You need to enter "COM1", "COM2", or any other COM port number in this setting depending on which COM port that you want to use.
Customize Level Settings	Level settings of the router can be customized. If checked, select the appropriate level from drop-down lists for video, audio and timecode. Select 0 (zero) for the video level if video is the first level in your router control system, 1 if it is the second level and so on.
Audio Level	4 audio level settings can be customized for the router.
Video Level	The video level setting can be customized for the router.
Timecode Level	The timecode level setting can be customized for the router.

Setting or button	Description
Sort Router Source/Destination Alphabetically	If selected, router sources and destinations are displayed alphabetically in the settings for Ingest Channel Setup and in the Scheduler tool.

Router Sources settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Router | Sources**

Use	Source ID	Source Name
<input checked="" type="checkbox"/>	VTR1	VTR13
<input checked="" type="checkbox"/>	VTR 1V=	VTR14
<input checked="" type="checkbox"/>	VTR15	VTR15
<input checked="" type="checkbox"/>	CAM12	CAM1
<input checked="" type="checkbox"/>	CAM2	SRC016
<input checked="" type="checkbox"/>	CAM3	SRC017
<input checked="" type="checkbox"/>	CAM4	SRC018
<input checked="" type="checkbox"/>	CAM5	SRC019
<input checked="" type="checkbox"/>	CAM6	SRC020
<input checked="" type="checkbox"/>	CAM7	SRC021
<input checked="" type="checkbox"/>	CAM8	SRC022
<input checked="" type="checkbox"/>	CAM9	SRC023
<input checked="" type="checkbox"/>	CAM10_10	SRC024

Setting or button	Description
Use	Any particular router sources can be selected to be used.
Source ID	Source ID is automatically populated for each router source.
Source Name	Each router source can be given a source name. Once you have entered them, Source Names appear instead of Source IDs in the router source list.

You can also sort the Source ID and Source Name in alphabetical order by clicking the column head. To reverse the sort order, click the column head again.

NOTE: Changes made to source and destination values within the router itself will not be seen within the GV STRATUS Control Panel router configuration settings until the 'GV STRATUS Router Controller' service is restarted.

Related Topics

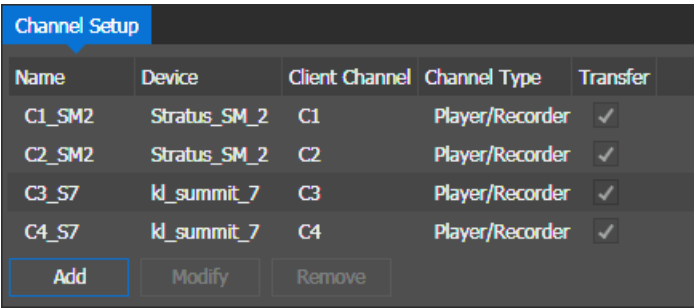
[Characters not allowed in router source and destination IDs](#) on page 485

TX Scheduler settings

TX Scheduler settings let you configure event transfer settings for the Scheduled Transfer tool. Access the TX Scheduler settings in the GV STRATUS Control Panel application.

Channel setup settings

These settings are optional on GV STRATUS systems.
To locate these settings, click **Applications | TX Scheduler | Channel Setup**



Channel Setup				
Name	Device	Client Channel	Channel Type	Transfer
C1_SM2	Stratus_SM_2	C1	Player/Recorder	✓
C2_SM2	Stratus_SM_2	C2	Player/Recorder	✓
C3_S7	Id_summit_7	C3	Player/Recorder	✓
C4_S7	Id_summit_7	C4	Player/Recorder	✓
<div>Add Modify Remove</div>				

Each row represents a Scheduled Transfer channel that you configured.

Setting or button	Description
Channel Name, Device, etc	Channel settings, as configured in the Add/Modify Channel dialog box.
Add	Opens the Add Channel dialog box for you to add channels for the Scheduled Transfer.
Modify	Opens the Modify Channel dialog box for the selected channel.
Remove	Removes the selected channel.
Save	Saves the current configuration of added channels and their order.

TX Scheduler Channel Add/Modify settings

These settings are optional on GV STRATUS systems.
To locate these settings, click **Applications | TX Scheduler | Channel Setup | Add** or **Modify**

Setting or button	Description
Name	Name for channel, as displayed in the GV STRATUS application. This can be any text, as desired to support your workflow.
Device	The type of K2 device that can be selected including K2 Summit Standalone client, K2 Media Server, or K2 Central Shared Storage, if configured in your operation.
Client Channel	The channel you are using to record, such as C1, C2, C3, etc. Ensure that the channel will not be in Continuous Record mode when you are using it for Scheduled Transfer record. This setting is persistent in its control of K2 system channels and cannot be overridden by K2 AppCenter or other GV STRATUS application tools, such as Channel Panel. NOTE: The timecode source of the channel must be set to Time of Day, or to LTC/VITC sources that had been synchronized to Windows system clock.
Channel Type	Sets the type of channel, either Player/Recorder or Multicam, on the K2 Summit system and provides the appropriate number of video inputs available per channel in the Scheduled Transfer tool.
Channel Operation	Sets the operation of a channel for asset transfer.
Account used to connect to K2 Device	User name, domain, and password to connect to the K2 device, if required to do so. NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

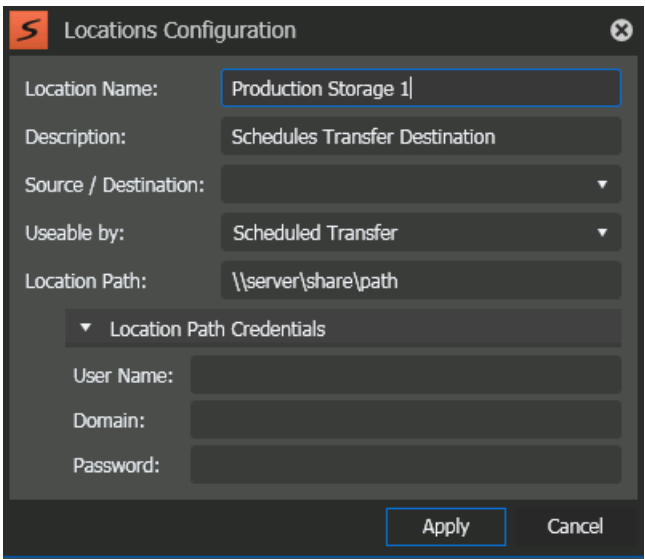
Configure Scheduled Transfer send locations

Only systems that transfer assets via the Scheduled Transfer tool require this process.

- To use the Scheduled Transfer tool, you must log on with a user account to which the Scheduled Transfer role is assigned. If the role is not assigned, the Scheduled Transfer tool is not available.

For the Scheduled Transfer tool, configure a location as follows:

1. In GV STRATUS Control Panel, navigate to **General | Locations Config | Locations Configuration | Add**.



2. Configure as follows:

Setting or button	Description
Location Name	The name of the location, as it appears in the application. This can be any name, as appropriate for your workflow. This identifies the Scheduled Transfer location when creating the transfer event in the Inspector.
Description	Your description of the location.
Source / Destination	Set to Destination .
Usable by	Set to Scheduled Transfer .
Location Path	The UNC path to the folder for the transfer location.
Location Path Credentials	The credentials required to access the location.

3. Click **Apply**.

Segmentation settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Applications | Segmentation | Traffic watch folder settings**

Setting or button	Description
Hostname	Name or IP address of the GV STRATUS server with GV STRATUS Traffic Gateway service.
Traffic Incoming Directory	The path of traffic watch folder for incoming BXF files.
Traffic Outgoing Directory	The path of traffic watch folder for outgoing BXF files.
Processed Directory	The folder path to processed BXF files.
Failed Directory	The folder path to BXF files with failed status.

The Dashboard tool

The Dashboard tool allows you to view information about the current activity on the GV STRATUS system.

You can launch the Dashboard tool in the GV STRATUS application and in the GV STRATUS Control Panel from the Navigator panel under the Monitors node.


You can also drag and drop the Dashboard tool into the **Favorites** panel to easily access your Dashboard status.

The Storage tab reports storage capacity available on K2 devices and on the local GV STRATUS PC. You can right-click on the **Used** report to explore storage levels further.

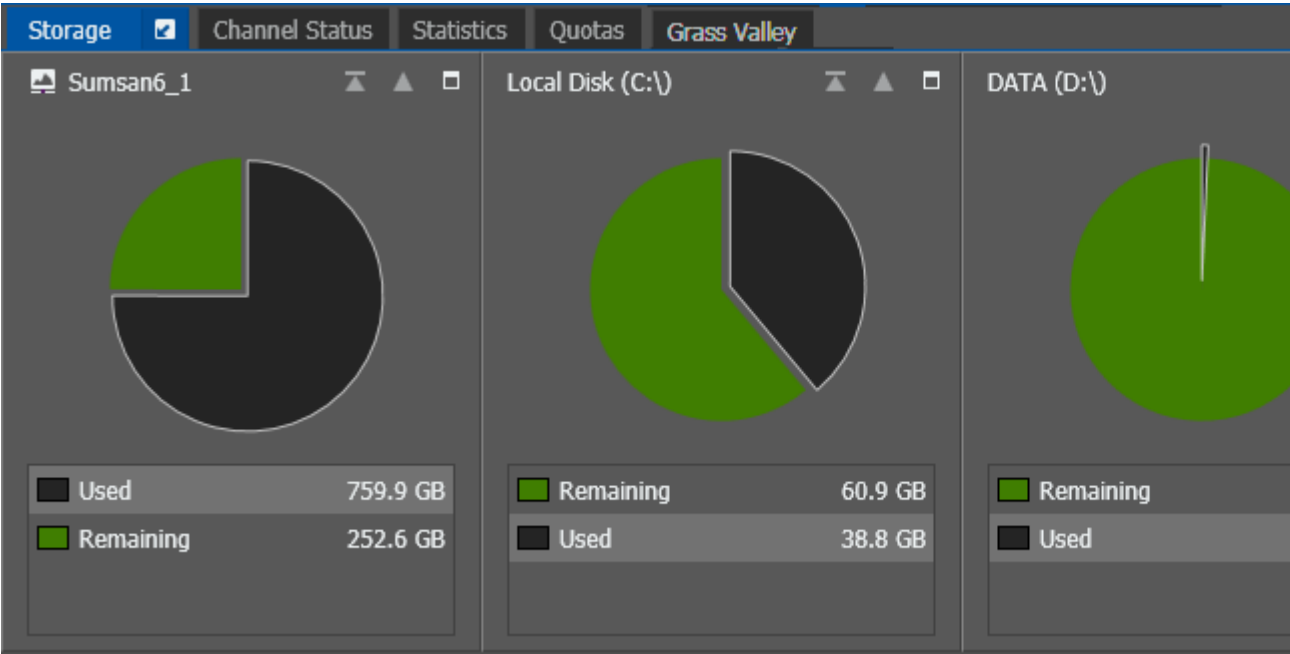
The Channel Status tab displays channel state and usage information. You can customize the display of list items, similar to Asset List items, with features such as sort, filter, and add/remove columns.

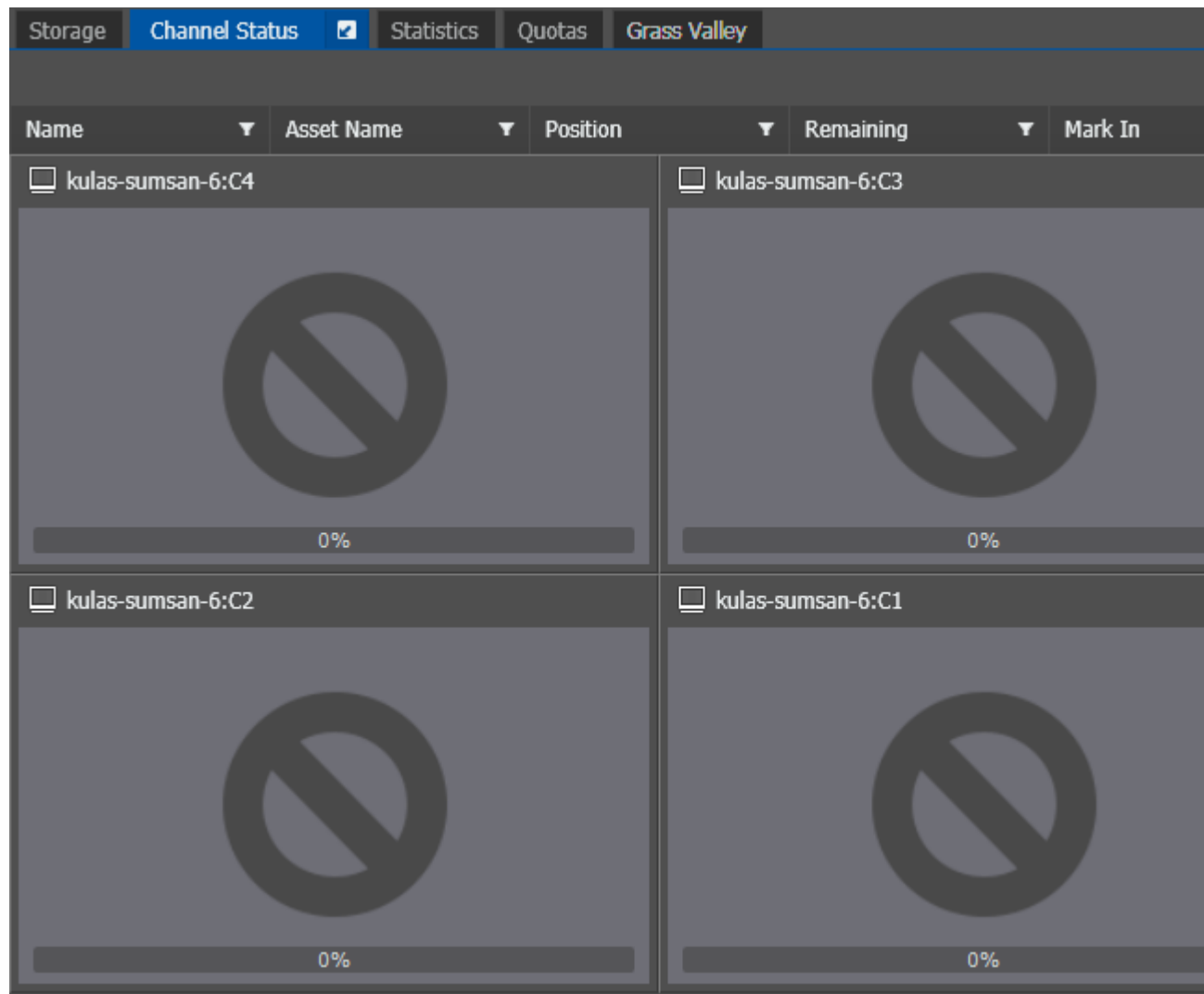
When a channel has an asset loaded, the asset details display in an expandable, separate line below the channel. You can also view the status of each channel whether it's idle, recording, or cueing assets.

The Statistics tab displays data in graphical form for change notices, asset count, user sessions, system sessions, and top 5 of assets per bin in the GV STRATUS system. Those statistics can also be viewed via an internet browser at: <http://<coreservername>/webapps/statistics/>

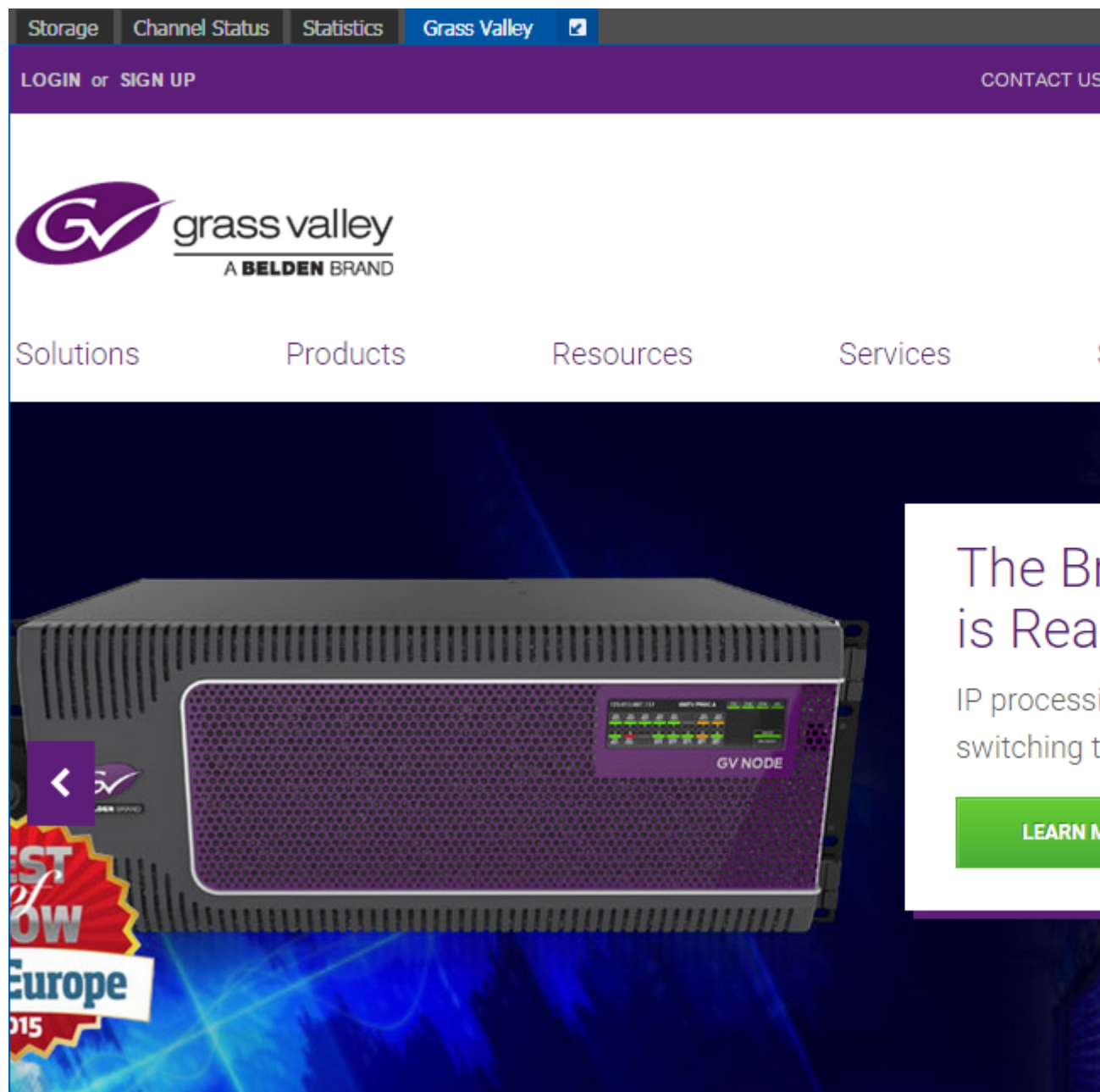
The Quotas tab displays the amount of disk space that the GV STRATUS system reserved for specific bins and the current quota usage. The quota of each bin is configurable via the StorNext Administration application on K2 Summits. The quota display turns orange when the disk space is less than 100MB of the limit, and turns red when it reaches the limit. The Quota Status  icon displays on the status bar when the quota limit is reached. You can click the icon to launch the status viewer panel and view the quota limit.

If a webpage is configured in GV STRATUS Control Panel for display in the Dashboard tool, you can see the webpage display on the next tab.







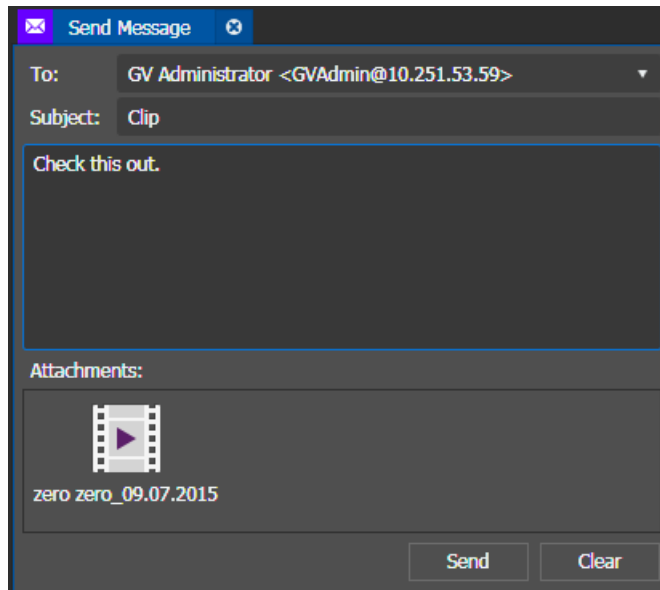


Related Topics

[Web Monitor Add/Modify settings](#) on page 313

The Send Message tool

The Send Message tool allows you to send and receive messages with attachments. If you are logged on to a GV STRATUS application you can send a message to another person that is currently logged on to a GV STRATUS application and on the same network subnet. The Send Message tool appears in the GV STRATUS application and in the GV STRATUS Control Panel application when you launch it from the Navigator panel.



Send Message tool features are as follows:

- To field — Specifies the GV STRATUS user to whom the message is sent. Select a user from the drop-down list.
- Subject field — Contains the title of the message.
- Message field — Contains the message.
- Attachments field — Provides a field to which you drag attachments.
- Send button — Sends the message.
- Clear button — Clears all fields in the Send Message panel.

You can attach the following:

- Clips
- Playlists
- Saved searches
- Workspaces
- Bins
- Logging buttons
- Button Panels
- Advanced Logging Tool composite panel
- Tools
- Devices
- Locations
- Monitors
- Channel Panels
- Drives

When you send an attachment, you are actually sending a link to the attachment, rather than the attachment itself.

When you receive a message, a Message dialog box opens and displays the message. If the message has an attachment, you can do the following:

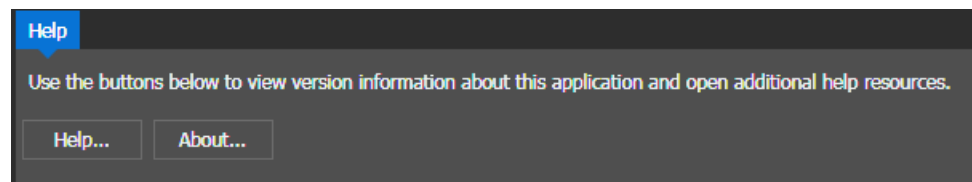
- Open the attachment by double-clicking it.
- Create a copy of the attachment in the Navigator panel or drag it to other panels in the GV STRATUS application. Consider the size of the attachment before creating a copy.

The Send Message tool is more similar to Instant Messaging than it is to E-mail, as there is no Outbox or Inbox functionality to store messages. If a person is not logged on to a GV STRATUS application you can not send them a message. Likewise, if you are not logged on to a GV STRATUS application you can not receive a message.

The Help tool

The Help tool allows you to view the **About GV STRATUS Control Panel** dialog box and **GV STRATUS Control Panel Help Topics**. The **About GV STRATUS Control Panel** dialog box consists of version information, while **GV STRATUS Control Panel Help Topics** display a compilation of resources for the application.

To locate this information, click **Help | Help**.

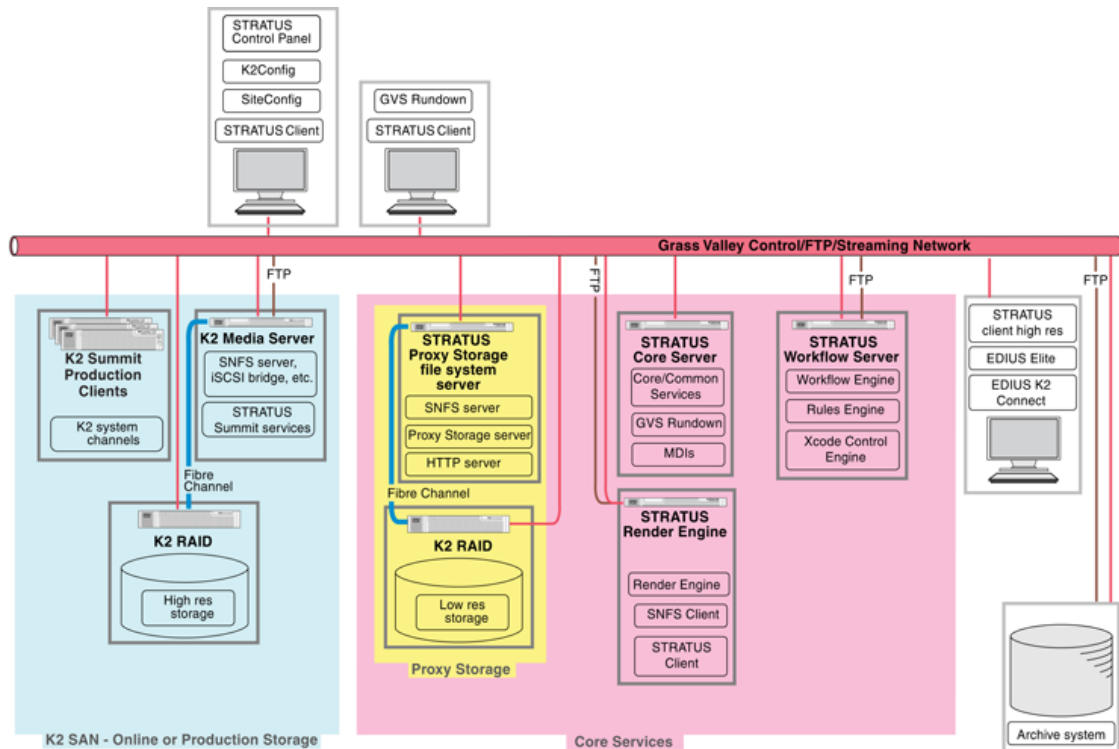


Button	Description
Help	Opens the GV STRATUS Control Panel Help Topics .
About	Opens the About GV STRATUS Control Panel dialog box.

Understanding system concepts

Understanding networks

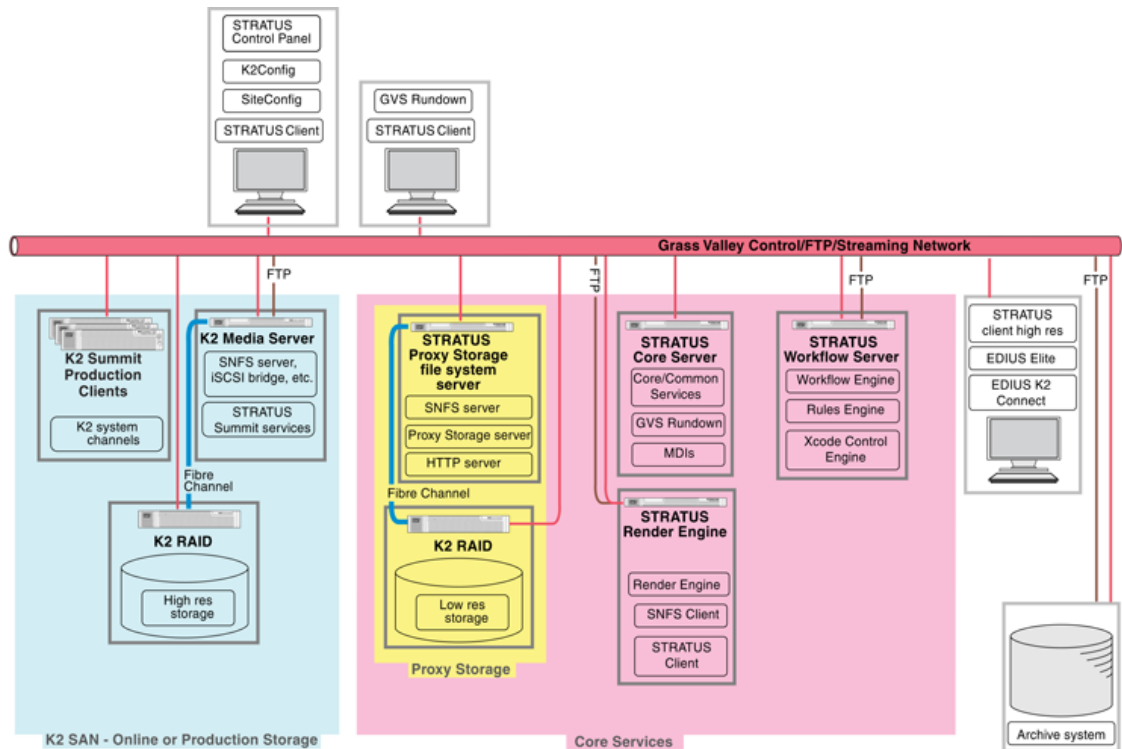
Read the topics in this section for a better understanding of your system.

Control network description

The control network is for communication between devices and components. It does not have real-time media traffic or streaming/FTP media traffic. The control network traffic must be separated from the streaming/FTP network traffic and the media (iSCSI) network traffic. This separation may be provided by different subnets, VLANs, or physical switch fabrics. The control network and the streaming/FTP network, if on different subnets, may be on the same VLAN. The control network and the media (iSCSI) network must not be on the same VLAN. Static IP addresses with name resolution via host files are recommended for the control network.

The control network also carries low-resolution traffic, both live streaming (multicast) and proxy file access.

Streaming/FTP network description



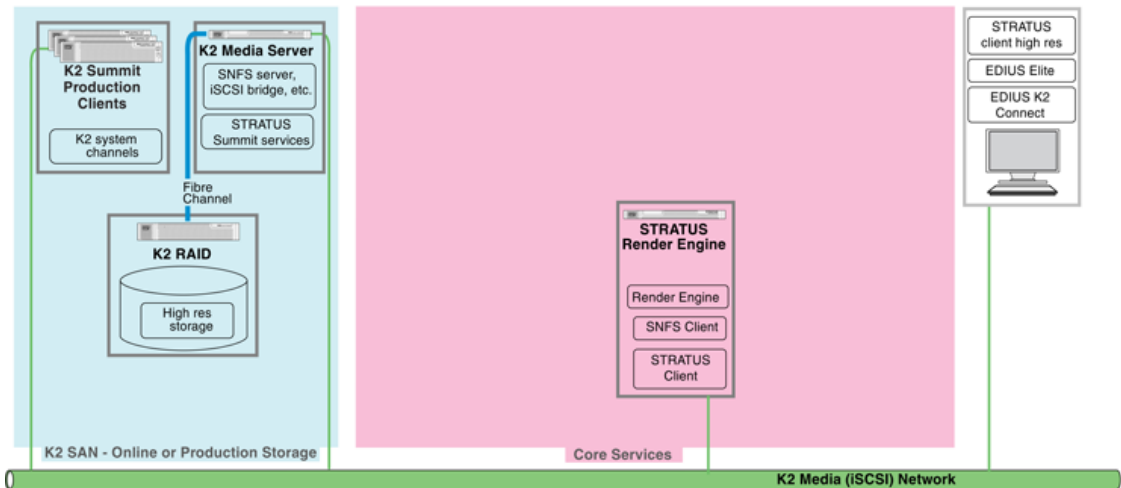
The streaming/FTP network is for media transfers and FTP traffic. The streaming/FTP network traffic must be separated from the control network traffic and the media (iSCSI) network traffic. This separation may be provided by different subnets, VLANs, or physical switch fabrics. The control network and the streaming/FTP network, if on different subnets, may be on the same VLAN. The control network and the media (iSCSI) network must not be on the same VLAN. Static IP addresses with name resolution via host files are recommended for the streaming/FTP network. Hostnames of network adapters that are dedicated to the streaming/FTP network must be aliased in the hosts file with the `_he0` suffix. This directs the streaming traffic to the correct port.

The streaming/FTP subnet does not carry low-resolution traffic, such as live streaming (multicast) and proxy file access. That traffic is on the control subnet.

In a GV STRATUS system, if you use generic FTP for archive, the streaming/FTP network carries the archive traffic. Dedicated connections to the streaming/FTP network are required on the following GV STRATUS servers:

- Express server
- Core server
- Render Engine server

Media (iSCSI) network description



The media network is exclusively for real-time iSCSI traffic on a K2 SAN. It must be on a different subnet than the control network and the streaming/FTP network. Furthermore, its traffic is kept physically separate from that of other networks. This separation is provided by dedicated ports, cables, and by a dedicated VLAN on the Ethernet switch or by separate switches. Static IP addresses are required for the media network. Name resolution is not necessary, so media network IP addresses are not required in host files.

Corporate LAN network description

The Corporate LAN is the external customer LAN. GV STRATUS client PCs that use a low-resolution media workflow are typically on the corporate LAN. If so, the GV STRATUS server(s) with role of Core Server and role of Proxy Server must have network access to the corporate LAN.

If GV STRATUS clients are on the corporate LAN, the network carries low-resolution traffic, both live streaming (multicast) and proxy file access.

Related Topics

[About the corporate LAN and SiteConfig](#) on page 370

Networking tips

- Before configuring any devices for networks, determine the full scope of IP addresses and names needed for all the machines in your system. Work with the network administrator at your facility to have IP addresses and names available for your use.
- It is recommended that you use the patterns offered in SiteConfig by default to establish a consistent convention for machine names and IP addresses. You can plan, organize, and enter this information in SiteConfig as you develop a system description. You can do this even before you have devices installed and/or cabled.

- On 64-bit devices, configure IPv4 addresses. Disable the IPv6 interface of the Control and FTP interfaces. SiteConfig always configures IPv4 addresses for 64-bit devices.

Network considerations and constraints

- If your GV STRATUS system is on a domain, all servers and client PCs on that system that have any interaction with Grass Valley components must be logged on to Windows with a domain user account. Do not use a local user account.
- Do not use any 10.1.0.n or 10.2.0.n IP addresses. These are used by the K2 RAID maintenance port and must be reserved for that purpose. If these addresses are otherwise used, maintenance port communication errors occur.

Network load balancing

Large GV STRATUS systems can require network load balancing to support workflow requirements.

Use standard Microsoft network load balancing techniques, as referenced by the links below, to support the requirements of your GV STRATUS system.

- [Overview of Network Load Balancing](#)
- [Installing Network Load Balancing](#)
- [Creating a Network Load Balancing Cluster](#)
- [Adding a host to a Network Load Balancing Cluster](#)

About host files

The hosts file is used by the control network and the streaming/FTP network for name resolution, which determines the IP address of a device on the network when only the device name (hostname) is given. The hosts file is located at `C:\Windows\system32\drivers\etc\hosts` on Windows XP and later operating systems. The hosts file must be the same on all network devices. It includes the names and addresses of all the devices on the network.

For FTP transfers on a K2 SAN, transfers go to/from K2 Media Servers that have the role of FTP server. No transfers go directly to/from the shared storage K2 clients that are on the K2 SAN. To support FTP transfers, in the hosts file the K2 Media Server hostname must have the `_he0` extension added at the end of the name and that hostname must be associated with the K2 Media Server's FTP/streaming network IP address.

Here is an example of IP addresses and names associated in a hosts file:

```
192.168.100.11    root_server_1
192.168.101.11    root_server_1_he0
192.168.100.21    root_server_2
192.168.101.21    root_server_2_he0
192.168.100.31    root_server_3
192.168.101.31    root_server_3_he0
192.168.100.41    root_server_4
192.168.101.41    root_server_4_he0
```



```
192.168.100.51    root_raid_1
192.168.100.61    root_gige_1
```

In this example 192.168.100.xx is the control network and 192.168.101.xx is the streaming/FTP network. Each K2 Media Server has its hostname associated with its control network IP address. In addition, each K2 Media Server (that has the role of FTP server) has its `_he0` hostname associated with its streaming/FTP network address.

Use SiteConfig to define your networks and devices. When you do so, SiteConfig creates the correct hosts file and copies the hosts file to each network device. This enforces consistent hosts files across networks and reduces errors introduced by editing and copying hosts files on individual devices. You can also view hosts files from SiteConfig for troubleshooting purposes.

About GV STRATUS client PCs

Depending on your site's system design and licensing, customer-supplied GV STRATUS client PCs are connected for media access as follows:

- Low-resolution client PC on the corporate LAN — This is the typical setup to access the GV STRATUS application and the EDIUS XS application from a standard PC desktop. The applications access proxy media via the corporate LAN to support the workflow, so the only connection required is the PC's existing connection to the corporate LAN. By default, the GV STRATUS application and the EDIUS XS application access low-resolution live streaming and proxy media, so no configuration in Control Panel Proxy Access settings is necessary. GV STRATUS and EDIUS XS authorization and licenses for the client PC are assigned and managed by the GV STRATUS server with role of Common Server.
- High-resolution client PC on K2 media (iSCSI) network — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via the media network to support the workflow. Two connections are required: one to the control network and one to the media network. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.
- Client PC with CIFS mount access to K2 storage — This setup is for high-resolution workflows, such as those that integrate with a high-resolution editor such as EDIUS Workgroup. The GV STRATUS application accesses the high-resolution assets via a CIFS mount, typically to the `v:` drive, to support the workflow. Two connections are required: one to the control network and one to the Grass Valley storage. The PC must be set to high-resolution in GV STRATUS Control Panel Proxy Access settings to enable the GV STRATUS application to access high-resolution media. A GV STRATUS high-resolution license is also required for the client PC. The high-resolution license is not managed by the GV STRATUS server with role of Common Server. The EDIUS license is installed on the PC and is managed by EDIUS license management. Other authorization and licensing is identical to the client PC on the corporate LAN.

- Client PC on control network only — This setup is supported for cases where it is convenient to connect to the control network rather than to the corporate LAN. All functionality is identical to the client PC on the corporate LAN.

Related Topics

[Client PC set up process](#) on page 204

[GV STRATUS client](#) on page 183

[Install/configure for SiteConfig support on client PC](#) on page 211

[Set up RMI PC access to high-resolution assets](#) on page 487

About the GV STRATUS Assets view

In the Navigator panel, the Assets node provides a view that is based on the information available in the GV STRATUS Database. This allows the GV STRATUS application to provide you with flexibility for viewing and organizing your assets. You can configure bins and folders based on users, projects, events, or other parameters to suit your particular workflows.

Under the Assets node are the following nodes:

- Groups — Provides a view of folders that can contain assets from any location in the GV STRATUS system. This allows you to create folders and group assets without being constrained by the locations of the assets. The folders you create are visible and accessible by everyone on the GV STRATUS system. The folders exist in the GV STRATUS Database but not in K2 Summit/SAN storage. In previous Grass Valley products, Groups were known as "Collections".
- Locations — Provides a view of bins in K2 Summit/SAN storage. When you create a bin, it is created in K2 Summit/SAN storage.

The Navigator panel also provides a Devices node. Under the Devices node you find the local computer on which the GV STRATUS application is installed. Archive servers configured in GV STRATUS Control Panel are also shown under the Devices node if you have the Archive Rights or Restore Rights roles.

If you have the role of Media Manager, as configured in GV STRATUS Control Panel, the Navigator panel also provides the following:

- The Groups view includes the Lost and Found folder, which you can check for assets that do not have a location or that might not be otherwise accessible in the Assets view.
- Permission is granted to move assets from an archive system to the GV STRATUS system. Without this permission, assets may be copied but not moved.

The GV STRATUS Database controls both the Assets view and the Devices view. The database keeps the operations you perform in synchronization with the GV STRATUS/K2 system overall. The GV STRATUS Database also associates extended metadata with each of your assets, as well as keeps track of relationships between assets. You can use this metadata as search criteria with the advanced search tool.

Related Topics

[About the Lost and Found folder](#) on page 397

About GV STRATUS system databases

The GV STRATUS system has an SQL database, which contains the following databases:

GV STRATUS Database	The database that provides the core asset management functionality to the GV STRATUS system. The database contains a repository of media asset management information about the GV STRATUS system. Other components in the system refer to the GV STRATUS Database for necessary information during configuration or while the system is operating. This is a SQL database. The SQL database name is MediaFrame.
License Management Database	The database for the assignment of GV STRATUS licenses and roles to groups and users. This is a SQL database. The SQL database name is LicenseManager.
Ingest Database	The database for the Scheduler tool. This is a SQL database. The SQL database name is ISDB.
SDB	SDB is the acronym for Simple Database, which is the database server component for GV STRATUS Rundown. It provides status on clips and on playlists associated with NCS rundowns.
Workflow Database	The database for the workflow engine. Stores the workflow templates. This is a SQL database. The database name is MediaFlow.
WfPersistence Database	The database for the runtime data of the workflow engine. Stores the current state of running workpackages. This is a SQL database. The database name is WfPersistence.
Rules Engine Database	The database for the Rules Engine. Stores the rules and the current state of the active rules. This is a SQL database. The database name is RulesEngine.

On the GV STRATUS Core server, default directories for SQL database-related files are as follows:

- Database Engine user databases — *D:\SQL*
- Database Engine user database logs — *C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\Data*
- Database Engine TempDB files — *D:\SQL*
- Database Engine TempDB log files — *C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\Data*
- Database Engine backup files — *C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\Backup*

About redundant K2 SANs

If your GV STRATUS system accesses a redundant K2 SAN, it introduces some considerations for operation and maintenance. A redundant K2 SAN has two K2 Media Servers (FSMs) that have the role of media file system server. These are redundant servers, so either server can be primary and either server can be backup. At any given time, one operates as the primary server and the other operates as the backup server. All K2 SAN media access takes place via the primary server, with the backup server online in a standby mode. Should a fault occur on the primary, a failover event occurs in which the backup becomes primary and the former primary shuts down.

In the GV STRATUS application you do not see the two K2 Media Servers in the Navigator tree-view. Instead, you see the K2 SAN represented as one location in the Assets view. Regardless of which redundant server is currently primary, you see no difference in your view of assets. This view of the K2 SAN is defined when you configure the Summit MDI in the GV STRATUS Control Panel application.

In the GV STRATUS Control Panel application, K2 Storage settings provide a view of your K2 SAN that reports the primary or backup status of K2 Media Servers. When you refresh the view the report of primary/backup status is updated.

In the GV STRATUS Control Panel application, the same send destination locations must be configured for both primary and backup servers in the redundant K2 SAN system. In the case of a failover event, send destination locations will still be available for GV STRATUS and EDIUS applications.

If a failover event occurs on the redundant K2 SAN, a proxy-workflow GV STRATUS application momentarily suspends access to assets on the K2 SAN. After the failover event is complete, you can repopulate Asset Lists and other views of assets to continue with your media operations. Refer to the "Installing and Servicing the K2 SAN" section of the K2 Topic Library for more information about K2 SAN failover and steps for recovery after a failover.

About GV STRATUS markers, Dyno markers, and the K2 database

Marker information is stored in the GV STRATUS database and in the K2/Summit/SAN database. You can configure the way the GV STRATUS system synchronizes marker information between the databases. If you use the K2 Dyno Replay Controller as part of your workflow, you must consider this synchronization, since a Dyno marker is in the K2 database and a GV STRATUS marker is in the GV STRATUS database.

Another consideration is the number of markers in the K2 database. A very large number of markers can exceed the capacity of the K2 database. You can check logs on the K2 Summit/SAN system for messages about the database size. If it exceeds 80MB, there is a risk of database errors. If all GV STRATUS markers are synchronized to the K2 database the risk of exceeding the capacity increases. Grass Valley recommends that you only synchronize GV STRATUS markers to the K2 database if required by your Dyno workflow and that you adopt policies to limit the number of markers in the K2 database.

Your options for marker synchronization are as follows:

- Partial — One-way marker creation from Dyno to GV STRATUS, then two-way marker modification and deletion. This is the default synchronization method, and is appropriate for most workflows.
- Full — Two-way creation, modification, and deletion between Dyno and GV STRATUS.

To further reduce the number of markers, the system limits markers in sub-clips. If configured for partial synchronization, markers in the parent clip are inherited by the GV STRATUS sub-clip but are not inherited by the Dyno sub-clip. If configured for full synchronization, markers in the parent clip are not inherited by the GV STRATUS sub-clip or by the Dyno sub-clip.

Depending on the synchronization option you select, when you perform operations the GV STRATUS system responds with behaviors as follows:

Table 13: Partial synchronization

Operation —>	Behavior —>	Operation —>	Behavior —>	Operation —>	Behavior
Create Dyno marker A.	Marker A synchronized to GV STRATUS.	Modify or delete GV STRATUS marker A.	Change to marker A synchronized to K2 database/Dyno.	Modify or delete Dyno marker A.	Change to marker A synchronized to GV STRATUS.
Create GV STRATUS marker B.	None. Marker B not synchronized to K2 database/Dyno.	Modify or delete GV STRATUS marker B.	None. Marker B not in K2 database/Dyno.	—	—
Create Dyno marker C in clip D.	Marker C synchronized to GV STRATUS.	Create GV STRATUS sub-clip D1 from a portion of clip D that includes marker C.	GV STRATUS sub-clip D1 includes marker C. Sub-clip D1 synchronized to K2 database/Dyno. Dyno sub-clip D1 does not include marker C.	Create Dyno sub-clip D2 from a portion of clip D that includes marker C.	Dyno sub-clip D2 does not include marker C. Sub-clip D2 synchronized to GV STRATUS. GV STRATUS sub-clip D2 includes marker C.
Create GV STRATUS marker E in clip F.	None. Marker E not synchronized to K2 database/Dyno.	Create GV STRATUS sub-clip F1 from a portion of clip F that includes GV STRATUS marker E.	GV STRATUS sub-clip F1 includes marker E. Sub-clip F1 synchronized to K2 database/Dyno. Dyno sub-clip F1 does not include marker E.	—	—

Table 14: Full synchronization

Operation —>	Behavior —>	Operation —>	Behavior —>	Operation —>	Behavior
Create Dyno marker A.	Marker A synchronized to GV STRATUS.	Modify or delete GV STRATUS marker A.	Change to marker A synchronized to K2 database/Dyno.	Modify or delete Dyno marker A.	Change to marker A synchronized to GV STRATUS.
Create GV STRATUS marker B.	Marker B synchronized to K2 database/Dyno.	Modify or delete Dyno marker B.	Change to marker B synchronized to GV STRATUS.	Modify or delete GV STRATUS marker B.	Change to marker B synchronized to K2 database/Dyno.

Operation →	Behavior →	Operation →	Behavior →	Operation →	Behavior
Create Dyno marker C in clip D.	Marker C synchronized to GV STRATUS.	Create GV STRATUS sub-clip D1 from a portion of clip D that includes marker C.	GV STRATUS sub-clip D1 does not include marker C. Sub-clip D1 synchronized to K2 database/Dyno. Dyno sub-clip D1 does not include marker C.	Create Dyno sub-clip D2 from a portion of clip D that includes marker C.	Dyno sub-clip D2 does not include marker C. Sub-clip D2 synchronized to GV STRATUS. GV STRATUS sub-clip D2 does not include marker C.
Create GV STRATUS marker E in clip F.	Marker E synchronized to K2 database/Dyno	Create Dyno sub-clip F1 from a portion of clip F that includes Dyno marker E.	Dyno sub-clip F1 does not include marker E. Sub-clip F1 synchronized to GV STRATUS. GV STRATUS sub-clip F1 does not include marker E.	Create GV STRATUS sub-clip F2 from a portion of clip F that includes GV STRATUS marker E.	GV STRATUS sub-clip F2 does not include marker E. Sub-clip F2 synchronized to K2 database/Dyno. Dyno sub-clip F2 does not include marker E.

Related Topics

[STRATUS Core Services settings](#) on page 247

About loop modes in K2, Dyno, and GV STRATUS

Support for loop modes varies on Grass Valley products.

Grass Valley products provide features for putting an asset into a loop mode. Products and their loop modes are as follows:

- K2 AppCenter:
 - Loop play: Allows the clip to play in a continuous loop until stopped.
 - Continuous record: Allows you to specify a fixed-length recording that records continuously. When the fixed length you specify is reached, AppCenter begins to erase the oldest media in 3 minute segments to make room for new media.
- GV STRATUS:
 - Loop play (Loop Playback): Loops the current asset between mark in to mark out.
- K2 Dyno:
 - Loop record (LoopRec): Same as K2 AppCenter Continuous record.

While the GV STRATUS application can access the same K2 Storage as K2 AppCenter and K2 Dyno, the GV STRATUS application does not support a recording loop mode. Therefore, in the GV STRATUS application, do not attempt to access an asset while it is in a loop record mode. The asset can be put into this type of loop mode by K2 Dyno or K2 AppCenter.

About custom fields

Custom fields enhance site-specific management of assets. In the GV STRATUS Control Panel application you can define a custom field to create an asset metadata-type that uniquely fits your site's workflow. In the GV STRATUS application you can then assign metadata to an asset by entering text or making a selection in the custom field. Adding custom fields is optional.

Related Topics

[Custom Metadata settings](#) on page 267

About timecode source and clock synchronization

Timecode is a continuous sequence of data embedded in a clip from beginning to the end in order to provide time reference for logging, synchronization, and tracking. It enables editing of a media file by identifying specific timeframe, and marking those in and out timecodes as reference points. There are several timecode sources depending on the recorder and timecode generator of the media file.

The GV STRATUS application supports these timecode sources:

Timecode Source	Description
AncVITC	Available on HD channels only. Timecode is read from ancillary VITC.
VITC	Available on SD channels only. Timecode is read from the VITC input for the channel.
LTC	Available on HD/SD channels. Timecode is read from the LTC input for the channel.
AncLTC	Available on HD channels only. Timecode is read from ancillary LTC.
Time of Day	Available on HD or SD recordings. Time of Day is an internal generator. You can select either LTC feeds or Windows system clock as the clock source to drive the generator. LTC feeds can be from Channels 1, 2, 3, or 4.
Start Time	Available in HD or SD. When Start Time is selected, you can specify the timecode to use when the recording starts. The drop frame option is enabled when the system timing is set to the 525 line standard (NTSC). Drop frame timecode allows the generator to operate as an accurate clock.

Clock synchronization is required on all GV STRATUS servers and K2 Summit/SAN systems. Ensure that K2 Summit/SAN systems are locked to house reference and clocks on all machines are kept in sync. This is especially important on systems with Ingest Scheduler and Scheduled Transfer tools, as they must be kept in sync with the GV STRATUS Core server and K2 Summit/SAN systems.

About advanced query syntax, advanced searches and custom expressions


A combination of search features provide flexibility in creating GV STRATUS searches. Entering text with advanced query syntax is available in both the Simple Search tool and the Advanced Search tool. The Advanced Search tool provides additional capabilities.

The advanced query syntax available when you enter text is as follows:

- If you search on one or more words (with no search syntax), the search returns assets that match all the words in any order. This is the Boolean "AND" operator. This is a change from previous versions, where this was a phrase search.
- Search syntax is as follows:
 - If you enter words surrounded by quotation marks, the search returns assets that match that exact phrase, with the words in the exact order.
 - Text surrounded by quotation marks is searched literally. Any search syntax or operators within the quotation marks are interpreted as plain text instead.
 - Simple boolean operators AND, OR and NOT are supported. Enter these operators in all capital letters.
 - Parenthesis control the precedence of the boolean operations.

The following are advanced query syntax examples. Each example is followed by the steps the GV STRATUS system goes through as it processes the search:

- “the quick brown” (fox OR dog) jumped over the NOT lazy cat
 1. Contains the phrase “the quick brown” AND
 2. Contains ‘fox’ or ‘dog’ AND
 3. Contains ‘jumped’ AND
 4. Contains ‘over’ AND
 5. Contains ‘the’ AND
 6. Does not contain ‘lazy’ AND
 7. Contains ‘cat’
- abc AND (def OR ghi)
 1. Contains ‘abc’ AND
 2. Contains ‘def’ OR ‘ghi’
- abc AND def OR ghi
 1. Contains ‘abc’ AND ‘def’ OR
 2. Contains ‘ghi’

The **Advanced Search Toggle** button  next to the Simple Search tool provides additional capabilities to the search tool.

Advanced Search tool interface showing two conditions:

- Condition 1: Created Date is between 2 weeks ago and Today
- Condition 2: Rating is greater than 4 stars

Buttons: Add Condition..., Limit Results: 1000 Items

Search in Paris - Results - 49 items

You can search using multiple conditions. You define the type of search as follows:

- ALL of the conditions below are met — This is the Boolean "AND" operator. The search returns assets that match all conditions. Only conditions with values (conditions that are not blank) are included in the search.
- ANY of the conditions below are met — This is the Boolean "OR" operator. The search returns assets that match any of the conditions. Only conditions with values (conditions that are not blank) are included in the search.
- Custom — You can enter text to create a custom expression using Boolean operators.

In your custom expression, you use the condition numbers (1, 2, 3, 4, etc) to represent the condition on which you are searching. For example, if you have configured condition 1 as "Asset Name is basketball" and condition 2 as "Asset Created is Today", then entering custom expression "1 AND 2" finds assets named basketball created today.

The "OR" and "AND" operators are at the same precedence, so for complex expression you use parentheses to group relationships. The following are examples of complex expressions:

- (1 AND 2) OR (1 AND 3)
- ((1 AND 4) OR 3) AND ((2 OR 4) AND 3)

Advanced Search tool interface showing a custom expression:

Custom Expression: (1 AND 2) AND (3 OR 4)

- Condition 1: Created Date is between 1/1/1990 and Today
- Condition 2: Rating is greater than 4 stars
- Condition 3: Name contains edge
- Condition 4: Name contains grass

Buttons: Add Condition..., Limit Results: 1000 Items

You can use advanced query syntax in the Advanced Search tool. When you create a "contains" condition that searches a text field, you can enter text with advanced query syntax to search that field. The following is an example of this type of condition:

- Name | contains | guitar NOT rock

In this way a search in the Simple Search tool is equivalent to a "contains" search that searches multiple text fields by default. For a simple search you can enter text with advanced query syntax.

Assets with names, tags, descriptions, comments, marker text, or custom text data that match the search are returned.

You can also search for custom metadata in the Advanced Search tool. In addition, the custom metadata search allows you to search for an empty field.

For an extended application of boolean logic in the Advanced Search tool, you can create multiple conditions that search text fields, each of which use advanced query syntax. Then you can combine those conditions as a custom expression.

Related Topics

[Searching assets with the advanced search tool](#) on page 798

Understanding credentials

Read the topics in this section for a better understanding of your system.

Related Topics

[About credentials in SiteConfig](#) on page 32

Passwords and security on Grass Valley systems

To provide a basic level of security, Grass Valley systems recognize three different security levels based on Windows users and groups, and the systems ship from the factory with accounts pre-configured accordingly. To access the system you must log on with the user name and password for one of the pre-configured accounts.

The following table shows the different types of users and their privileges.

	Windows administrator	Grass Valley product administrator	K2 product administrator	Grass Valley product user
User name	Administrator	GVAdmin	K2Admin	GVUser
AppCenter Configuration Manager	Full access	Full access	Full access	Can view
AppCenter	Full access	Full access	Full access	Full access; requires an account on the K2 Summit/Solo system
Storage Utility	Full access	Full access	Full access	Can't access
K2Config	Full access	Full access	Full access	Can't access
Server Control Panel	Full access	Full access	Can view	Can view

	Windows administrator	Grass Valley product administrator	K2 product administrator	Grass Valley product user
Windows Operating System	Full access	Full access	Limited access (based on Windows user account privileges).	Limited access (based on Windows user account privileges)

To support legacy FTP and security features, K2 systems also have *movie*, *mxfmovie*, *mpgmovie*, and *video_fs* accounts. Do not use these accounts to log in to the Windows operating system on K2 systems.

Related Topics

[About credentials in SiteConfig](#) on page 32

[Set credentials](#) on page 216

[Changing passwords](#) on page 587

[GV STRATUS servers logon account](#) on page 198

K2 and GV STRATUS security considerations

Access Control Lists (ACLs) specify individual user or group rights to specific system objects such as programs, processes, or files. K2 Summit systems enforce ACLs for security and permissions on K2 bins and channels, while the GV STRATUS system has its own mechanism for security. The GV STRATUS system always accesses the K2 Summit system via the internal system account, which by default is GVAdmin, and the K2 Summit system is configured by default to allow full access to that account. This is an important consideration to allow the systems to operate together. Therefore you must not change the default configuration of security and permissions on your K2 Summit systems that are part of your GV STRATUS system. This includes Windows operating system ACL settings and K2 AppCenter security/permission settings on bins and channels. Changing these settings could prevent the GV STRATUS system from accessing the K2 Summit system. Configure security using GV STRATUS security only. Do not configure K2 Summit security.

About groups and users on a GV STRATUS system

If your GV STRATUS system is on a domain, all servers and client PCs on that system that have any interaction with Grass Valley components must be logged on to Windows with a domain user account. Do not use a local user account.

GV STRATUS licensing and roles are applied to Windows operating system groups and users. Any groups or users to which you assign GV STRATUS licenses or roles must be available for authentication on the GV STRATUS server with role of Common Services, which is typically the GV STRATUS Core server, and on all K2 devices that are part of your GV STRATUS system. This includes the following devices:

- GV STRATUS servers
- K2 Summit standalone systems
- K2 Summit SAN-attached systems

- **K2 Media Servers**

Groups and/or user accounts are not authorized on the GV STRATUS client PC itself. When you log on to an application from a client PC, you are authorized against the roles assigned to the accounts available on the GV STRATUS Core server as follows:

- **GV STRATUS application** — If you are using a domain, the log on accounts are on the domain server and are managed by the domain so the GV STRATUS Core server must be on the domain. If you are using a workgroup, the log on accounts must be a part of the workgroup on the GV STRATUS Core server.
- **GV STRATUS Control Panel application** — You must log on with Windows administrator credentials in order to have access to all the configuration settings in the GV STRATUS Control Panel application. The log on account must be a part of the local Windows administrator account on the GV STRATUS Core server. This is required whether you are using a domain or a workgroup. If you are using a domain, you can additionally add the log on account to the domain administrators group.

If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

Understanding virus and security policies

Read the topics in this section for a better understanding of your system.

Windows operating system update policy

Grass Valley recognizes that it is essential to deploy Microsoft security patches to Windows operating system products as quickly as possible. As Grass Valley systems are used to meet the mission-critical requirements of your environment, it is imperative that these systems be kept up to date in order to maintain the highest level of security available. To that end, Grass Valley recommends that for standard-edition Windows operating system products, you install all important updates provided by Microsoft. In the unlikely event that one of these updates causes ill effects to a Grass Valley system, you are urged to uninstall the update and contact Grass Valley customer service as soon as possible. Grass Valley will investigate the incompatibility and, if necessary, provide a software update or work-around to allow the system to properly function with the Microsoft update in question.

Note that this policy applies to “Important” updates only. There are countless updates not classified as “Important” that are made available by Microsoft. If you believe that one or more of these other updates must be applied, contact Grass Valley prior to installation. This policy also applies to standard-edition (not embedded) operating systems only. Do not attempt to update an embedded Windows operating system in any way except as directed by Grass Valley for the specific product.

You should exercise common sense when applying updates. Specifically, do not download or install an update while a Grass Valley product is being used for mission-critical purposes such as play to air.

NOTE: *If a computer does not have the Grass Valley Embedded Security solution one-time initial deployment process applied, do not install any Windows updates. Apply the one-time process before installing Windows updates.*

Related Topics

[Embedded Security modes and policies](#) on page 595

Grass Valley anti-virus scan policy

Grass Valley systems are based on the Microsoft Windows operating system. It is important to defend this system against virus or Spyware attacks. However, you must use a strategy that allows you to scan Grass Valley systems without interrupting media access. The Grass Valley Embedded Security solution on K2 and GV STRATUS systems is a qualified strategy. If you use Embedded Security on a device, do not use other anti-virus strategies on that device. Contact Grass Valley Support to determine the strategy best suited to your environment.

Related Topics

[Embedded Security modes and policies](#) on page 595

Understanding system configuration tools

Read the topics in this section for a better understanding of your system.

About SiteConfig

SiteConfig is Grass Valley's tool for network configuration and software deployment. SiteConfig is a ProductFrame application. ProductFrame is an integrated platform of tools and product distribution processes for system installation and configuration.

You can use SiteConfig as a stand-alone tool for planning and system design, even before you have any devices installed or cabled. You can define networks, IP addresses, hostnames, interfaces, and other network parameters. You can add devices, group devices, and modify device roles in the system.

As you install and commission systems, SiteConfig runs on a designated PC. It discovers devices, configures their network settings, and manages host files. SiteConfig also manages software installations and upgrades and provides a unified software package with compatible versions for deployment across multi-product systems.

You should use SiteConfig for network configuration and software deployment at installation and throughout the life of the system in your facility. This enforces consistent policy and allows SiteConfig to keep a record of changes, which makes the system easier to maintain and aids in troubleshooting should a problem arise.

SiteConfig displays information from a system description file, which is an XML file.

K2Config

The K2 System Configuration application (K2Config) is the primary tool for configuring systems in the category of a K2 SAN, which include online or production K2 SANs, K2 Nearline systems,

and GV STRATUS Proxy Storage systems. Once the devices of the storage system are cabled and are communicating on the control network, you can do all the configuration required to create a working K2 SAN using the K2Config application. When you use SiteConfig for network configuration, you can import the SiteConfig system description file into the K2Config application to get you started with your SAN configuration.

After your K2 SAN is initially installed and configured, if you need to reconfigure the system you should do so using SiteConfig and the K2Config application. This enforces consistent policy and sequencing for configuration tasks, which makes the system easier to maintain and aids in troubleshooting should a problem arise.

The K2Config application runs on a control point PC and accesses the devices of the K2 SAN via the control network. You can configure the devices of the K2 SAN as follows:

- SAN-attached K2/Summit systems and K2 Media Server — These devices are configured directly by the K2Config application.
- K2 RAID storage devices — The K2Config application launches a remote instance of Storage Utility, which configures RAID storage devices. Storage Utility components run on the K2 Media Server and the configuration actually takes place via the Fibre Channel connection between the K2 Media Server and the RAID storage device.
- Ethernet switches — The K2Config application can launch a switch's web-based configuration application.

You can expand and select nodes in the tree view to view K2 SANs, individual devices, and configuration settings. The configuration file is saved on the V: drive, along with the media files in the shared storage system. The configuration file is updated and saved whenever you change a configuration using the K2Config application. That is why you must always use the K2Config application to change settings on the storage system, so the most recently changed configurations will always be stored in the configuration file and displayed.

Grass Valley Recommended Deployment and Monitoring Solutions

To maximize up-time, a maintenance strategy must provide the ability to easily identify the root cause of an unanticipated hardware or software failure and to quickly compile failure data. The ability to proactively predict failures and to quickly notify those who can rectify them makes the maintenance strategy even more powerful. Grass Valley has a long history of building the necessary functionality into critical broadcast products. With Grass Valley's next generation tool, GV GUARDIAN, remote monitoring and proactive predictive failure analysis are important contributors to Grass Valley system solutions. GV GUARDIAN runs on commercial off-the-shelf server PCs, such as the K2 system control point PC, and is also available as an all-in-one turnkey product. Grass Valley and 3rd party devices report status via Window Messaging, Simple Network Management Protocol (SNMP), or syslog to GV GUARDIAN. The tool provides easy to use, fully autonomous remote monitoring to predict errors, provide proactive notifications, and centrally consolidate error logs and hardware failure information. With GV GUARDIAN you can maximize your up-time with less manpower, as compared to manual system monitoring. Watching for indicator lights, physically scanning logs, and other manual monitoring is far more time consuming, more error-prone, and much less accurate. Grass Valley recommends using GV GUARDIAN as your remote monitoring tool.


Windows Remote Desktop Connection

You can use the Microsoft Windows Remote Desktop Connection application to make a remote connection to a Grass Valley system that runs the Windows operating system.

Take the following into consideration when connecting to K2 systems:

- Before you can use the Remote Desktop Connection, you need network access and permissions to connect to the K2 system.
- You can use either the name or the IP address to access the K2 system.
- Do not use the Remote Desktop Connection to access the PC running the Control Point software or to access the AppCenter application; results may be unreliable.
- Take care when accessing an online K2 system on which media access is underway. The additional load on network and system resources could cause unpredictable results.
- Lack of robust video/graphic support can cause video display problems. Remote desktop connections can interrupt proxy and live streaming. AppCenter video monitoring is not supported through Remote Desktop Connection.

Accessing Remote Desktop Connection

1. Do one of the following:
 - Click the **Start** button on the Windows task bar
 - Press the Windows key  on the keyboard.
2. Select **Programs | Accessories | Communications | Remote Desktop Connection**.
The Remote Desktop dialog box opens.
3. Enter the name or IP address of the system to which you are making the remote connection and click **Connect**.

Accessing a device via Remote Desktop from SiteConfig

You can access a device via Remote Desktop if you have configured its network properties to allow communication over the control network.

- To initiate a Remote Desktop session, right-click on a device in the tree view and select **Remote Desktop**.

SiteConfig opens a Remote Desktop session to the device in a new window and automatically logs on using either the global credentials or the overridden credentials (if any).

If Remote Desktop does not log on to the device, check the credentials being used and check network connectivity to the device.

- Click the **visible dialog pending user input** link next to a deployment task.

This link appears if a deployment task is underway and a dialog on the device requires your input. In this case SiteConfig can automatically launch a Remote Desktop session to the device. If a dialog is not visible on the screen, check for a Interactive Service Detection flashing toolbar button and use it to view the message. Provide user input as required for any dialogs or messages.

About SiteConfig and K2Config settings

Many settings and operations, such as network settings, adding/removing devices, and software versions, are managed by both the SiteConfig application and the K2Config application. Each application has its own XML file in which information is stored. You can keep the applications in synch by using an orderly task flow as you configure the K2 SAN.

When doing initial installation and configuration tasks, you can export/import system information from one application's XML file to the other application's XML file. You can also merge from K2Config into an existing SiteConfig system description. These export/import/merge features support a one-time process in which a system as described in the XML file of one application is imported into the XML file in the other application. The target XML must not already contain the system being imported.

When you change a setting in one application, it is not automatically updated directly in the other application. The applications do not communicate dynamically with one another. However, both applications can read settings as currently configured on the actual physical device and update their XML file accordingly. This is the method you must use to keep the applications in synch.

When you change a setting that is managed by both applications, you should change it first in SiteConfig, as a general rule. This application gives you the best context for the system as a whole and provides features to identify and verify changes. Once the change is implemented on the actual physical device, you must then open the relevant page in the K2Config application. This causes the K2Config application to refresh its settings from the device and write the change to its XML file. It also allows you to verify your change within the context of the K2Config application.

The following table summarizes operations that involve interaction between SiteConfig and K2Config.

Operation	Task flow context and policies	Additional information
Import SiteConfig system description file into K2Config	Use this operation for initial install/commission (greenfield) sites. First define the site topology using SiteConfig and complete network configuration and software deployment. Then import the SiteConfig system description into K2Config and complete the K2 SAN configuration.	This operation creates a K2 SAN in K2Config with SiteConfig defined devices. Uses the site name to check if the K2 SAN already exists. The operation will not import if the K2 SAN exists with the same name. The operation can import all sites which are K2 SANs from a single system description file in a single import step.
Import K2Config XML into SiteConfig	Use this operation when you're running SiteConfig for the first time at a site with existing K2 SANs that have already been configured with K2Config. This allows you to seed the SiteConfig system description with device information that is already in the K2Config XML file. After you have done this operation for the first time, do not do it again.	This operation creates a SiteConfig site with K2Config defined devices. The operation removes all other sites.

Operation	Task flow context and policies	Additional information
Merge K2Config XML into SiteConfig system description	Use this operation when you've already defined some sites using SiteConfig and you later want to bring in another K2Config defined K2 SAN that doesn't exist in SiteConfig. Do not merge a K2Config XML that you've already merged. If you do so, it is likely that SiteConfig will create a new site with the same devices.	This operation creates a SiteConfig site with K2Config defined devices but leaves existing sites as is.
Rename Site\SAN	Rename first in SiteConfig. Then rename in K2Config. Do not import\merge into SiteConfig or K2Config.	—
Remove Site\SAN	Remove first in SiteConfig. Then remove in K2Config. Do not import\merge into SiteConfig or K2Config.	—
Remove device	Remove from both SiteConfig and K2Config.	—
Add device	Add in SiteConfig first, do network configuration and software deployment. Then, add in K2Config and configure using K2Config.	—
Create a new site\SAN	Use SiteConfig to create site, add devices, configure network and deploy software, then import into K2Config and configure each device	—
Change hostname	Perform hostname change using SiteConfig. Remove and re-add to K2Config. If changing the hostname of a media file system/metadata K2 Media Server, re-configure all clients on the K2 SAN using K2Config	—
Change IP address (except address of TOE on K2 Media Server)	Use SiteConfig for IP address changes. Then in K2Config, click on the changed device's network configuration node. This refreshes the K2Config view of IPs from the device.	—
Change IP address of TOE on K2 Media Server	For TOE IP changes and/or TOE card removal, use K2Config.	—
Modify K2 SAN redundancy - redundant to non-redundant or vice versa	Use SiteConfig to recreate the site using the appropriate redundancy models and configure network and deploy software. Remove K2 SAN from K2Config. Import site into K2Config. Configure using K2Config.	—

About Control Panel, SiteConfig, and K2Config settings

During system commissioning or system reconfiguration, the SiteConfig and K2Config applications are first used to set up or modify K2 SAN and network configurations. The GV STRATUS Control

Panel application is then used to complete the setup of the GV STRATUS system-wide workflow components.

The GV STRATUS Control Panel application imports the configuration information and populates the GV STRATUS view of the available K2 systems. For example, information about K2 SANs comes from K2Config while information about standalone K2 Summit systems comes from SiteConfig. The information transfer is uni-directional, where the GV STRATUS Control Panel application imports the SiteConfig/K2Config generated configurations.

Use of the GV STRATUS Control Panel application requires the GV STRATUS Core server to be running. If, during maintenance or commissioning, SiteConfig and K2Config are used to setup or modify systems while the GV STRATUS Core server is turned off, it is important to synchronize K2Config information to GV STRATUS Control Panel before attempting to use the GV STRATUS Control Panel application.

NOTE: *While the GV STRATUS Control Panel application allows you to enter device names and other values as free-form text, it is not recommended for use at customer sites as manual entry can result in text errors.*

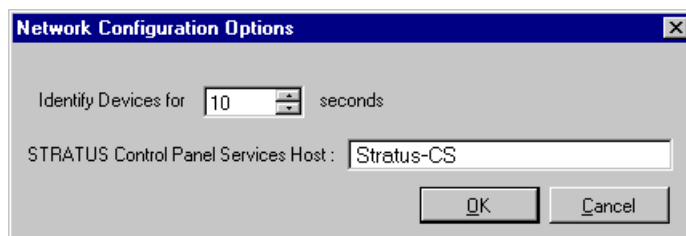
Related Topics

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

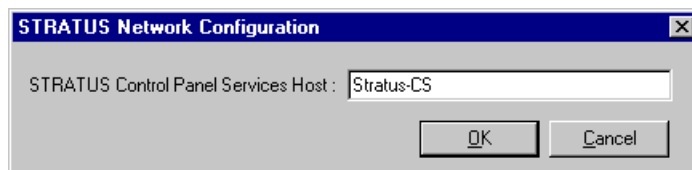
About the Control Panel Service host and applications

The GV STRATUS server with the SiteConfig role of Common Services hosts the Control Panel Service. Typically, this is the GV STRATUS Core server. To communicate configuration information, multiple applications must be configured to reference this GV STRATUS server.

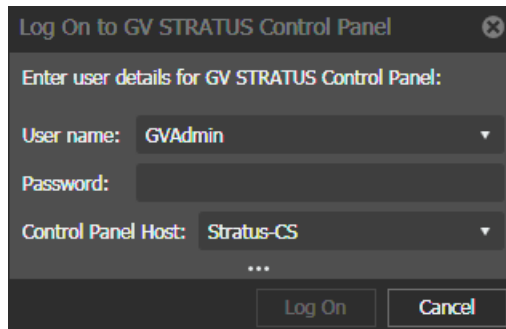
In the SiteConfig application, click **Tools | Options | Network Configuration**.



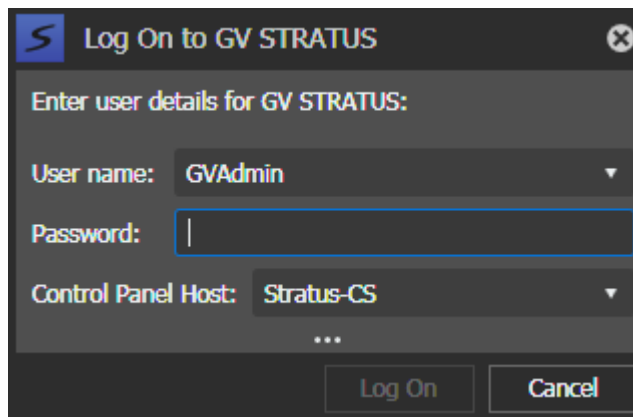
In the K2Config application, click **STRATUS | Network Configuration**.



In the GV STRATUS Control Panel application, configure the log in dialog box.



In the GV STRATUS application, configure the log in dialog box.



When you use SiteConfig to deploy the GV STRATUS application, SiteConfig configures the GV STRATUS Control Panel Host on each GV STRATUS client PC, providing the following prerequisites are in place:

- In the SiteConfig application, in **Tools | Options | Network Configuration**, the GV STRATUS Control Panel Services Host must be correctly configured.
- In the SiteConfig system description, the GV STRATUS client PC must have the role of GV STRATUS Application.

Related Topics

[Logging on to the GV STRATUS Control Panel application](#) on page 643

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

Understanding and using SiteConfig

Read the topics in this section for a better understanding of your system.

Related Topics

[Working with SiteConfig](#) on page 414

About developing a system description

The SiteConfig system description includes the complete Grass Valley system, which includes K2, GV STRATUS, and other Grass Valley products. In most cases you install and test your K2 system

first, so when you create your system description you start by adding your K2 systems, then you add GV STRATUS devices. The following taskflows provide examples:

- For a system in which all devices are new from Grass Valley with one or more K2 SANs, you first create a system description for your K2 SAN or SANs, then add GV STRATUS and Playout devices as appropriate. Refer to the *K2 SAN installation and Service Manual* for instructions on creating the system description.
- For a system in which all devices are new from Grass Valley with one or more standalone K2 Summit systems, you first create a system description and add your standalone K2 Summit systems, then add other devices as appropriate. Refer to the *K2 System Guide* for instructions on creating the system description and adding your standalone K2 Summit systems.

If you are using a different taskflow, use the topics in this manual as appropriate and refer to the *SiteConfig User Manual* or *SiteConfig Help Topics* for additional information.

Your devices must be in a SiteConfig system description in order to be managed by SiteConfig. When you already have a system description in place, you should use SiteConfig to modify this system description and add your devices. You can do this in your planning phase, even before you have devices installed or cabled. Your goal is to have the SiteConfig system description accurately represent all aspects of your devices and networks before you begin actually implementing any networking or other configuration tasks for those devices.

About device and host names

In SiteConfig, a device can have different names, as follows:

- Device name — This is a name for display in SiteConfig only. It is stored in the SiteConfig system description, but not written to the actual device. It is displayed in the device tree view and in the device list view. It can be a different name than the device's host name.
- Host name — This is the network name of the device. SiteConfig has a default naming convention for host names which you can use or override with your own host names.

In most cases it is recommended that the Device name and Host name be the same. This avoids confusion and aids troubleshooting.

The Device name can serve as a placeholder as a system is planned and implemented. During the install/commission process, when you reconcile a device's current and planned network interface settings, the Host name as configured in the system description can be overwritten by the host name on the actual device. However, the Device name configured in the system description is not affected. Therefore it is recommended that in the early planned stages, you configure the Device name to be the desired name for the device, but do not yet configure the Host name. Then, after you have applied network interface settings, you can change the Host name to be the same as the Device name. This changes the host name on the actual device so that then all names are in sync.

SiteConfig does not allow duplicate device names or host names.

Items in the tree view are automatically sorted alphabetically, so if you change a name the item might sort to a different position.

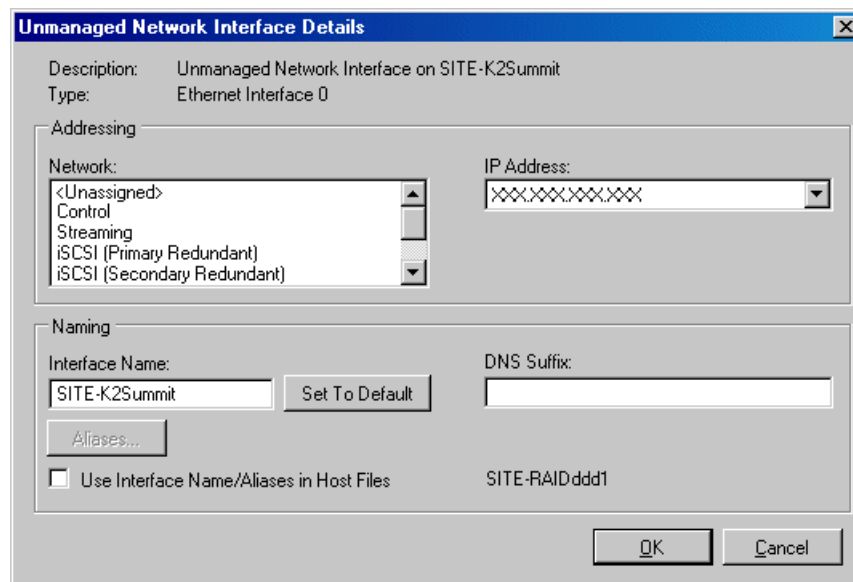
About IP configuration of network interfaces on devices

You can perform IP configuration of network interfaces when working with a placeholder device prior to discovery. When you add a device and choose a particular model, the model defines the number, type and usage characteristics of network interfaces to expect on such a device.

You can view and edit each network interface and set up IP configuration selecting an appropriate IP from the network to which each interface connects. The process for editing IP configuration varies, depending on the device's phase.

Placeholder device IP configuration

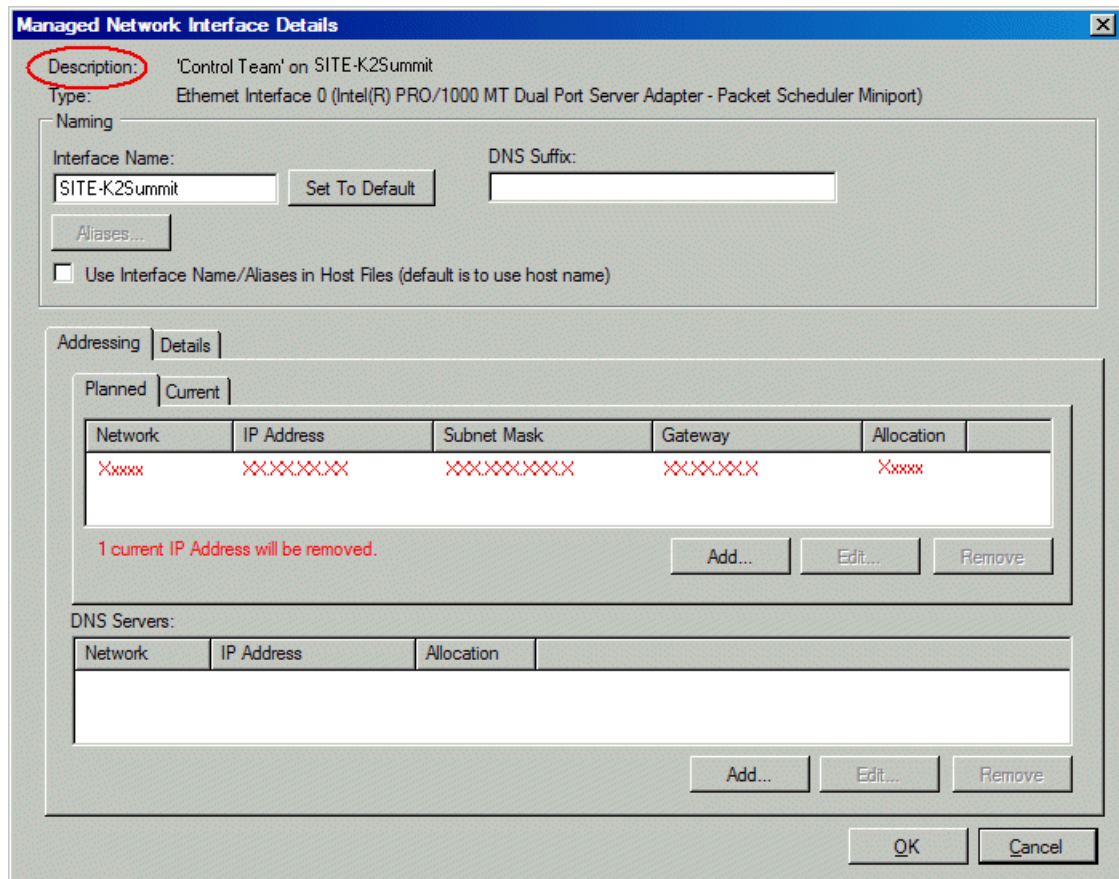
On a placeholder device, you edit network interfaces using the Unmanaged Network Interfaces dialog box.



The Unmanaged Network Interfaces dialog box allows you only to save changes to the system description.

Discovered device IP configuration

On a discovered device, you edit network interfaces using the Managed Network Interfaces dialog box.



The Managed Network Interfaces dialog box allows you to edit and save changes to the device.

About SiteConfig support on GV STRATUS devices

Before SiteConfig can be used to discover or manage a device, the device must meet the following requirements:

- The device must be a Microsoft Windows operating system device.
- The device must have Microsoft .NET version 3.5 installed, as reported in the Windows Add/Remove Programs control panel.
- The SiteConfig Discovery Agent service must be running on the device, as reported in the Windows Services control panel.

For GV STRATUS servers shipped new from Grass Valley, these requirements are pre-installed. These requirements are pre-installed on recovery images for these systems as well. Therefore, if you suspect a problem with these requirements, do not attempt to install SiteConfig support requirements. If you must restore SiteConfig support requirements, re-image the system.

GV STRATUS client PCs on the corporate LAN do not require the Discovery Agent because typically you do not use SiteConfig to discover or manage networking on these devices.

GV STRATUS client PCs on the control network do required the Discovery Agent.

Software that meets these requirements is bundled in various components and installation programs, some of which are available at your SiteConfig install location as follows:

- The *ConnectivityKit* folder contains Microsoft .NET. You can copy the contents of this folder to a device and then run *setup.exe* to install the software.
- The *DiscoveryAgent Setup* folder contains the SiteConfig Discovery Agent. You can copy the contents of this folder to a device and then run *setup.exe* to install the software.

Related Topics

[Install/configure for SiteConfig support on client PC](#) on page 211

[About GV STRATUS client PCs](#) on page 348

[About software deployment on the corporate LAN](#) on page 371

About credentials in SiteConfig

SiteConfig requires administrative privileges on devices in order to perform most of the network configuration and deployment tasks. For known devices types, SiteConfig has a default administrator account and password. These default credentials depend on the SiteConfig version, so check your SiteConfig Release Notes for any changes. When you add a device based on a known device type, SiteConfig references the default administrator account and password. Then, when you use remote desktop or perform software deployment to the device, SiteConfig automatically uses these credentials. These credentials are called "global" credentials for the device since the same credentials are used on all devices of that type in the system.

You can choose to override the default credentials for a given device type. For example, if you have specified a different administrator account or a different password on the devices when commissioning the system, then you want SiteConfig to use these modified credentials.

It is possible to also override the default credentials for a single device.

Related Topics

[Understanding credentials](#) on page 357

[Changing passwords](#) on page 587

About the corporate LAN and SiteConfig

GV STRATUS client PCs can be on the corporate LAN, which is considered an unmanaged network in SiteConfig. Since SiteConfig does not manage the network, you cannot use SiteConfig to configure network settings on those GV STRATUS client PCs. However, you must still configure your system description to include the corporate LAN, for the following purposes:

- A GV STRATUS client PC should be a SiteConfig managed device, so SiteConfig needs to know the connection for each network interface on the device, including the corporate LAN connection. Otherwise, SiteConfig displays error messages.
- If a GV STRATUS client PC uses a DNS server on the corporate LAN for name resolution, SiteConfig needs to reference that DNS server.

- You should use SiteConfig to deploy GV STRATUS application software to the client PC via the corporate LAN.

Related Topics

[Corporate LAN network description](#) on page 346

About software deployment on the corporate LAN

If you have GV STRATUS client PCs that are on a network that SiteConfig does not manage, such as your corporate LAN, you can configure your system description to allow software deployment to those devices. This method uses SiteConfig as a software deployment tool only, as you cannot configure network settings on the device or manage the device's network. With this method you create an unmanaged network in SiteConfig, add the DNS server(s) to the control point PC, then when you add the PC, edit the control interface and set it to the unmanaged network. This allows communication with the GV STRATUS client PCs. Then add a placeholder device for each of your GV STRATUS client PCs. With this method you do not use SiteConfig device discovery, and it is not necessary to install a discovery agent on the GV STRATUS client PC. Rather, you configure SiteConfig to look up the address via DNS or hosts file. This allows the GV STRATUS client PC to communicate as if it was a discovered device. SiteConfig can then deploy software to the device.

If necessary, get help from your IT department to ensure that the SiteConfig PC is configured to communicate with the PCs on the corporate network. If SiteConfig can ping the PC, SiteConfig can deploy software to the PC.

About hosts files and SiteConfig

SiteConfig uses the network information in the system description to define a hosts file and allows you to view the hosts file. SiteConfig can manage this hosts file on Windows operating system devices that are in the system description and that are part of a SiteConfig managed network.

When you have successfully assigned devices and applied planned network settings to interfaces, it is an indication that host table information, as currently captured in the system description, is valid and that you are ready to have SiteConfig assemble the host table information into a hosts file. Your options for placing this host table information on devices are as follows:

- If you do not want SiteConfig to manage your host table information, you can manage it yourself. This is typically the case if your facility has an existing hosts file that contains host table information for devices that are not in the SiteConfig system description. In this case, you can have SiteConfig generate a single hosts file that contains the host table information for the devices in the system description. You can then copy the desired host table information out of the SiteConfig hosts file and copy it into your facility hosts file. You must then distribute your facility hosts file to devices using your own mechanisms.
- If you want SiteConfig to manage all information in hosts files on devices, you can have SiteConfig copy its hosts file to devices. In so doing, SiteConfig overwrites the existing hosts files on devices. Therefore, this requires that all devices that have name resolution through the hosts file be configured accordingly in the SiteConfig system description.

If you choose to have SiteConfig write hosts files to devices, the process consumes system resource and network bandwidth. Therefore you should wait until you have verified the information for all

devices/interfaces in the host file, rather than updating hosts files incrementally as you discover/assign devices.

SiteConfig does not automatically deploy hosts files to managed devices as you add or remove devices. If you add or remove devices from the system description, you must re-deploy the modified hosts file to all devices.

Related Topics

[Generating host tables using SiteConfig](#) on page 226

Proxy/live streaming technical details

The K2 Summit system writes proxy files to the proxy location specified in the GV STRATUS Control Panel application. On the specified device the location is `V:\proxy\`. For each clip recorded, the K2 system creates a directory and names it with the asset GUID, which is a long, unique string of characters. These directory names do not correspond to clip names or other human readable information. The directory contains the proxy files, which include the proxy video and audio files, as well as thumbnails files and a scene change file. The proxy video file is a fragmented MPEG-4 file. For test purposes, you can open the proxy file in a video player application that supports fragmented MPEG-4.

The K2 Summit system multicasts the low-resolution live stream using Real-time Transport Protocol, with UDP ports for the MPEG video with timecode and UDP ports for audio tracks, as defined by the Session Description Protocol (SDP). For each channel, the K2 system generates a `*.sdp` file that contains the streaming media initialization parameters. The K2 system updates the file whenever you change the live streaming configuration. You can find these files on the K2 system at `V:\live streaming`. For test purposes, you can open a file in a text editor and read the IP addresses and ports assigned to the multicast session and other configuration information for the stream.

The K2 Summit system can also generate low-latency streaming media for use by DynoZoom and live monitoring. Refer to related topics in the "Configuring the K2 System" section of the K2 Topic Library.

The K2 Summit system generates for each of its channels the specific live streaming network ports and IP addresses based on a port base and an IP address base. The port base is the first UDP port address for elementary streams. The IP address base is the first two octets in the IP address, as specified by the Internet Assigned Numbers Authority (IANA). By default, the port base is 31820 and the IP address base is 239.192.0.0. With these default bases, the range of network ports is UDP 31820 to 31827, and the range of IP addresses is 239.192.x.x to 239.195.x.x. Grass Valley recommends that you use these default settings. However, if necessary for your site's network policies, you can also change the K2 system's default settings. You can configure the port base and the IP address base. Only IP addresses specified by IANA for multicast are allowed. Do not attempt to edit the `*.sdp` files, as the K2 system generates them automatically whenever the system is restarted. If you change the IP address of the K2 system, you must restart in order to update the IP address in the `*.sdp` file.

The K2 Summit system hosts a simple web server over which it delivers the live stream via HTTP. For test purposes, you can access the live stream by entering a URL of the following convention in a standard web browser:

`http://<httpservername>/live/<k2systemname>_<Cn>.sdp`

For example, to view the live stream from channel four on a K2 system named Summit01, the URL is `http://Summit01/live/Summit01_C4.sdp`. The http server name is the same as the name of the K2 system.

MDI and Encoder logical names convention

As you configure your system you must create and enter logical names for the various software components (services) that provide functionality. These logical names provide a mapping of the functionality of the standard system services to the specific machines in your particular system. For this reason you should take care to create logical names that are easy to identify and interpret as they appear in the various configuration pages.

It is especially important that you distinguish between the logical name of a software component and the hostname of the machine to which the software component relates. For example, a convention could be that machine names are lower case and logical names are upper case.

The software components that require logical names are as follows:

- MDIs — The GV STRATUS system uses a Managed Device Interface (MDI) to manage a device that is not a platform for GV STRATUS software. Typically these are the machines on which media resides, such as K2 Summit/SAN systems and archive devices. Each type of device has its own MDI. The MDI software component is hosted on a GV STRATUS server, rather than being hosted on the same machine that it manages.
- Encoder services — The GV STRATUS system uses services to manage the scavenge encoder media processing. Typically these are a type of “transfer” service. This type of software component is hosted on the machine that it manages.

About archive MDIs

The archive MDI software component must be installed on a network connected computer. Archive MDIs can be configured to specify settings such as source and destination transfer locations. Similar to other MDIs, the archive MDI can be installed on the GV STRATUS Core server.

The archive MDI software component runs as a service. You can install the archive MDI software component from the SiteConfig application. The archive MDIs available are as follows:

- DIVA
- FlashNet
- Masstech
- Generic FTP
- Common RESTful

Related Topics

[MDI and Encoder logical names convention](#) on page 373

About roles

The concept of a "role" plays an important part in understanding system configuration, as follows:

- SiteConfig — When defining devices in SiteConfig, roles designate what system functions are carried out on which devices. Depending on the particular device model, SiteConfig provides typical roles and allows you to assign roles, within constraints appropriate for the device type. Depending on the roles assigned, SiteConfig then installs the appropriate software on the device.
- K2Config — Roles are applied to K2 Media Servers in K2Config. This defines how K2Config then configures the K2 media file system, K2 media database, services, and other K2 system components to create the K2 SAN.
- GV STRATUS Control Panel — User groups and accounts that are configured in the GV STRATUS Control Panel application are assigned roles. The roles correspond in a general sense to GV STRATUS application tools and other features. Depending on the roles assigned to the account used to log in to the GV STRATUS, tools and features are either displayed or hidden.

Related Topics

[GV STRATUS roles matrix](#) on page 158

Asset copies and deletions

When you copy an asset, different types of associations are created, depending on the K2 storage location and the type of asset copy, as follows:

- Shallow copy — When you copy assets and both copies are in the same K2 storage location, shallow copies are created. With a shallow copy, the high-resolution media files are not copied. Rather, the K2 media database and the GV STRATUS database contain a record for each shallow copy, and each record references the same media files. In the GV STRATUS system, this results in an asset with multiple references, similar to a subclip.
- Deep copy — When you copy assets and the copies are in different K2 storage locations, deep copies are created. With a deep copy, the high-resolution media files are copied. The K2 media database on each K2 system references its own media files. The GV STRATUS database references all the media files on all the different K2 storage locations and archive locations. In the GV STRATUS system, this results in an asset with multiple high-resolution associations.

When deleting assets, the following occurs:

- Assets with shallow copies — When the GV STRATUS system attempts to delete the shallow copy, the asset is not deleted. You must delete the referenced copy before you can delete the asset.
- Assets with deep copies — When you delete any one of the associated high-resolution assets, in any K2 storage or archive location, by default the GV STRATUS system deletes all the high-resolutions assets in all locations. Since it is one asset with multiple high-resolutions associations, the entire asset with all its associations is deleted. If you only want to delete a high-resolution association, you can do so on the **Associations** tab in the Inspector.

Take care when creating copies, considering your workflow in which copied assets are deleted. The GV STRATUS roles of **Delete Rights** and **Media Manager** can be assigned to user accounts to

implement the desired workflow. As part of the delete operation, Media Managers can specify online/archive deletion and choose whether to delete or conform referenced copy of assets.

Related Topics

[Deleting assets](#) on page 791

[Deleting assets](#) on page 791

Devices components: Roles, cab files, services, and licenses

The system components listed in these topics are related to GV STRATUS system functionality. Other components can be present, but if they are not specific to GV STRATUS system functionality they are not listed in these topics.

Related Topics

[Ports and services mapping](#) on page 592

Express server components

Description: The single server with all roles for a basic GV STRATUS system, including Proxy Server, to support a small GV STRATUS system.

Nomenclature:

- STRATUS-CS-EXPRESS

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Core Server Express

SiteConfig Roles:

- GV STRATUS Ingest Services (Required)
- GV STRATUS Control Panel Service (Required)
- GV STRATUS Common Services (Required)
- License Manager (Required)
- GV STRATUS Data Mover Engine (Required)
- GV STRATUS Proxy Express Server (Required on Express server)
- GV STRATUS Control Panel (Required)
- GV STRATUS Core Services (Required)
- GV STRATUS Database (Required)
- GV STRATUS Summit MDI (Required)
- GV STRATUS Common RESTful Archive MDI (Optional)
- GV STRATUS Diva MDI (Optional)
- GV STRATUS Event Viewer
- GV STRATUS FlashNet MDI (Optional)
- GV STRATUS Masstech MDI (Optional)
- GV STRATUS Generic FTP MDI (Optional)
- GV STRATUS Scheduled Transfer Engine (Optional)
- GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)

- GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
- GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
- GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV Log Manager (Required)
- GV Log Viewer (Required)
- GV STRATUS Traffic Gateway (Optional)
- GV STRATUS Rundown Server Components (Optional)
- GV STRATUS Application (Use for test purposes only)
- If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
- *GrassValley_K2system_x.x.x.cab*.

Licenses:

- GV STRATUS licenses (Express/Flex/Pro/Elite) as appropriate for customer site.
- STRATUS-CONFORM (Optional) Includes XRE, Conform, Proxy Encoder functionality.
- STRATUS-ARCHIVE (Optional) for archive and restore functionality.
- STRATUS-RULES (Optional)
- STRATUS-XCODECONTROLCARBONCODER (Optional. Depends on STRATUS-RULES.)
- STRATUS-XCODECONTROLVANTAGE (Optional. Depends on STRATUS-RULES.)
- STRATUS-XCODECONTROLELEMENTAL (Optional. Depends on STRATUS-RULES.)
- STRATUS-MULTISITE (Optional)
- STRA-PREM-CONNECT (Optional)
- STRATUS-VTR-ING (Optional)
- STRATUS-XCODECONTROLMEWS (Optional)
- STRATUS-XCODECONTROLMEWSEXT

These are Sabretooth floating licenses, which means they are not restricted to single computer. GV STRATUS Control Panel assigns the licenses to user groups.

Contact your Grass Valley representative for a current list of available licenses.

Windows Control Panel Services:

- GV STRATUS ASK. Startup type: Automatic
- GV STRATUS Asset mgr. Startup type: Automatic
- GV STRATUS Common Services. Startup type: Automatic
- GV STRATUS Control Panel Services. Startup type: Automatic
- GV STRATUS Data Mover Engine. Startup type: Automatic
- GV STRATUS Index Agent. Startup type: Automatic
- GV STRATUS Ingest Config. Startup type: Automatic
- GV STRATUS Ingest Core. Startup type: Automatic
- GV STRATUS Ingest DB. Startup type: Automatic
- GV STRATUS Maintenance Service. Startup type: Automatic
- GV STRATUS MDI Common RESTful Archive. Startup type: Automatic
- GV STRATUS MDI DIVA. Startup type: Automatic
- GV STRATUS MDI Flashnet. Startup type: Automatic
- GV STRATUS MDI Masstech. Startup type: Automatic
- GV STRATUS MDI GFTP. Startup type: Automatic
- GV STRATUS MDI Proxy. Startup type: Automatic
- GV STRATUS MDI Summit. Startup type: Automatic
- GV STRATUS MediaFlow Workflow Engine. Startup type: Automatic
- GV STRATUS Resolver. Startup type: Automatic
- GV STRATUS Router Config. Startup type: Automatic
- GV STRATUS Router Controller. Startup type: Automatic
- GV STRATUS Rules Engine. Startup type: Automatic

- GV STRATUS Rules Wizard. Startup type: Automatic
- GV STRATUS Scheduled Transfer Engine. Startup type: Automatic
- GV STRATUS Segmentation Config. Startup type: Automatic
- GV STRATUS Traffic Gateway. Startup type: Automatic
- GV STRATUS Transfer mgr. Startup type: Automatic
- GV STRATUS Xcode Control Engine
- GV Log Manager. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual
- If optionally used as a Render Engine, these additional services:
 - GV Render Engine. Startup type: Automatic (Delayed Start)
 - Grass Valley XRE Controller. Startup type: Automatic (Delayed Start)

Core Server components

Description: A server that has the role of Core Services on a GV STRATUS system with multiple GV STRATUS servers, including a different GV STRATUS server with role of Proxy Server.

Nomenclature:

- STRATUS-CS-A1, STRATUS-CS-B1, STRATUS-CS-C1

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Core Server

SiteConfig Roles:

- GV STRATUS Ingest Services (Required)
- GV STRATUS Control Panel Service (Required)
- GV STRATUS Common Services (Required)
- License Manager (Required)
- GV STRATUS Control Panel (Required)
- GV STRATUS Core Services (Required)
- GV STRATUS Database (Required)
- GV STRATUS Data Mover Engine (Required)
- GV STRATUS Summit MDI (Required)
- GV STRATUS Common RESTful Archive MDI (Optional)
- GV STRATUS Diva MDI (Optional)
- GV STRATUS Event Viewer
- GV STRATUS FlashNet MDI (Optional)
- GV STRATUS Masstech MDI (Optional)
- GV STRATUS Generic FTP MDI (Optional)
- GV STRATUS Scheduled Transfer Engine (Optional)
- GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
- GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
- GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)

- GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV Log Manager (Required)
- GV Log Viewer (Required)
- GV STRATUS Traffic Gateway (Optional)
- GV STRATUS Rundown Server Components (Optional)
- GV STRATUS Application (Use for test purposes only)

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
- *GrassValley_K2system_x.x.x.cab*.

Licenses:

- GV STRATUS licenses (Express/Flex/Pro/Elite) as appropriate for customer site.
- STRATUS-CONFORM (Optional) Includes XRE, Conform, Proxy Encoder functionality.
- STRATUS-ARCHIVE (Optional)
- STRATUS-RULES (Optional)
- STRATUS-XCODECONTROLCARBONCODER (Optional. Depends on STRATUS-RULES.)
- STRATUS-XCODECONTROLVANTAGE (Optional. Depends on STRATUS-RULES.)
- STRATUS-XCODECONTROLELEMENTAL (Optional. Depends on STRATUS-RULES.)
- STRATUS-MULTISITE (Optional)
- STRA-PREM-CONNECT (Optional)
- STRATUS-VTR-ING (Optional)
- STRATUS-XCODECONTROLMEWS (Optional)
- STRATUS-XCODECONTROLMEWSEXT (Optional)

These are Sabretooth floating licenses, which means they are not restricted to single computer. GV STRATUS Control Panel assigns the licenses to user groups.

Contact your Grass Valley representative for a current list of available licenses.

Windows Control Panel Services:

- GV STRATUS ASK. Startup type: Automatic
- GV STRATUS Asset mgr. Startup type: Automatic
- GV STRATUS Common Services. Startup type: Automatic
- GV STRATUS Control Panel Services. Startup type: Automatic
- GV STRATUS Data Mover Engine. Startup type: Automatic
- GV STRATUS Index Agent. Startup type: Automatic
- GV STRATUS Ingest Config. Startup type: Automatic
- GV STRATUS Ingest Core. Startup type: Automatic
- GV STRATUS Ingest DB. Startup type: Automatic
- GV STRATUS Maintenance Service. Startup type: Automatic
- GV STRATUS MDI Common RESTful Archive. Startup type: Automatic
- GV STRATUS MDI DIVA. Startup type: Automatic
- GV STRATUS MDI Flashnet. Startup type: Automatic
- GV STRATUS MDI Masstech. Startup type: Automatic
- GV STRATUS MDI GFTP. Startup type: Automatic
- GV STRATUS MDI Proxy. Startup type: Automatic
- GV STRATUS MDI Summit. Startup type: Automatic
- GV STRATUS MediaFlow Workflow Engine. Startup type: Automatic
- GV STRATUS Resolver. Startup type: Automatic
- GV STRATUS Router Config. Startup type: Automatic
- GV STRATUS Router Controller. Startup type: Automatic
- GV STRATUS Rules Engine. Startup type: Automatic
- GV STRATUS Rules Wizard. Startup type: Automatic
- GV STRATUS Scheduled Transfer Engine. Startup type: Automatic
- GV STRATUS Segmentation Config. Startup type: Automatic
- GV STRATUS Traffic Gateway. Startup type: Automatic
- GV STRATUS Transfer mgr. Startup type: Automatic
- GV STRATUS Xcode Control Engine

- GV Log Manager. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual

Proxy Server components

Description: The server that provides access to the proxy media on a GV STRATUS system with proxy media stored on an online or production K2 SAN.

Nomenclature:

- This server is a subcomponent of the STRATUS-CS-A1 nomenclature.

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Proxy Server

SiteConfig Roles:

- GV STRATUS Event Viewer
- GV STRATUS Proxy K2 SAN Server
- GV Log Manager
- StorNext File System Client

K2Config Roles:

- SNFS file system client

SiteConfig cab files:

- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*

The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
- *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*.

Licenses:

- None

Windows Control Panel Services:

- CvfsPM. Startup type: Automatic
- Grass Valley AppService. Startup type: Automatic
- Grass Valley Extent Manager Service. Startup type: Manual
- Grass Valley FTP Daemon. Startup type: Automatic

- Grass Valley Import Service. Startup type: Manual
- Grass Valley K2 Config. Startup type: Automatic
- Grass Valley MegaRaid Server. Startup type: Manual
- Grass Valley Performance Status. Startup type: Manual
- Grass Valley Performance Status Maker. Startup type: Manual
- Grass Valley SabreToothWS. Startup type: Automatic
- Grass Valley Server Monitor. Startup type: Automatic
- Grass Valley SNFS SetRtio. Startup type: Automatic
- Grass Valley Storage Utility Host. Startup type: Automatic
- GV STRATUS K2 Configuration Service. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic

Proxy Storage file system server components

Description: The server that provides access to the proxy media on a GV STRATUS system with a dedicated Proxy Storage system.

Nomenclature:

- This server is a subcomponent of the following nomenclatures:
 - STRATUS-CS-B1
 - STRATUS-CS-C1
 - STRATUS-CS-B1-FT
 - STRATUS-CS-C1-FT

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Proxy Storage File System Server

SiteConfig Roles:

- GV STRATUS Event Viewer
- GV STRATUS Proxy Storage Server
- GV Log Manager
- StorNext File System Server
- StorNext File System Client

K2Config Roles:

- SNFS file system server

SiteConfig cab files:

- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*

The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
- *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*.

Licenses:

- None

Windows Control Panel Services:

- CvfsPM. Startup type: Automatic
- Grass Valley AppService. Startup type: Automatic
- Grass Valley Extent Manager Service. Startup type: Manual
- Grass Valley FTP Daemon. Startup type: Automatic
- Grass Valley Import Service. Startup type: Manual
- Grass Valley K2 Config. Startup type: Automatic
- Grass Valley MegaRaid Server. Startup type: Manual
- Grass Valley Performance Status. Startup type: Manual
- Grass Valley Performance Status Maker. Startup type: Manual
- Grass Valley SabreToothWS. Startup type: Automatic
- Grass Valley Server Monitor. Startup type: Automatic
- Grass Valley SNFS SetRtio. Startup type: Automatic
- Grass Valley Storage Utility Host. Startup type: Automatic
- GV STRATUS K2 Configuration Service. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual

Render Engine Server components

The system components listed in these topics are related to GV STRATUS system functionality. Other components can be present, but if they are not specific to GV STRATUS system functionality they are not listed in these topics.

Description: A GV STRATUS server that functions as a proxy encoder and as a conform server. As a proxy encoder, the server creates low-resolution proxy assets. If a high-resolution asset does not yet have associated proxy, the server creates it. The software that provides the proxy encoder functionality can run on a dedicated Render Engine server or on a GV STRATUS server that has other roles as well, such as a GV STRATUS Express server. As a conform server, the server hosts the Render Engine Service. The service renders a complex asset, such as a GV STRATUS sequence or a project created in EDIUS, into a simple clip.

Nomenclature:

- STRATUS-CS-RE

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Render Engine

SiteConfig Roles:

- GV STRATUS Control Panel
- GV STRATUS Event Viewer
- GV Log Manager
- StorNext File System Client
- GV Embedded Security Manager
- GV STRATUS Render Engine

K2Config Roles:

- FTP Server (not required from GV STRATUS 4.5)

NOTE: : *If upgrading from a version below than 4.5, those systems with GV Render Engine server require the removal of K2 FTP Server role. You must remove the K2 FTP Server role on every GV STRATUS Render Engine in your operation.*

SiteConfig cab files:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GVEEmbeddedSecurityManager_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*

Licenses:

- None

Windows Control Panel Services:

- CvfsPM. Startup type: Automatic
- Grass Valley AppService. Startup type: Automatic

- Grass Valley Extent Manager Service. Startup type: Manual
- Grass Valley FTP Daemon. Startup type: Automatic (not required from GV STRATUS 4.5)
- Grass Valley Import Service. Startup type: Manual
- Grass Valley K2 Config. Startup type: Automatic
- Grass Valley MegaRaid Server. Startup type: Manual
- Grass Valley Performance Status. Startup type: Manual
- Grass Valley Performance Status Maker. Startup type: Manual
- Grass Valley SabreToothWS. Startup type: Automatic
- Grass Valley Server Monitor. Startup type: Automatic
- Grass Valley SNFS SetRtio. Startup type: Automatic
- Grass Valley Storage Utility Host. Startup type: Automatic
- Grass Valley XRE Controller. Startup type: Automatic (Delayed Start)
- GV Render Engine. Startup type: Automatic (Delayed Start)
- GV STRATUS K2 Configuration Service. Startup type: Automatic
- Microsoft iSCSI Initiator Service. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual

Workflow Server components

Description: A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations.

Nomenclature:

- STRATUS-CS-WFE

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS Workflow Server

SiteConfig Roles:

- GV STRATUS Event Viewer
- GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
- GV STRATUS Control Panel
- GV Log Manager

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
- *GrassValley_K2system_x.x.x.cab*.

Licenses:

- STRATUS-RULES
- STRATUS-XCODECONTROLCARBONCODER
- STRATUS-XCODECONTROLVANTAGE
- STRATUS-XCODECONTROLELEMENTAL

Windows Control Panel Services:

- GV STRATUS MediaFlow Workflow Engine. Startup type: Automatic
- GV STRATUS Rules Engine. Startup type: Automatic
- GV STRATUS Xcode Control Engine
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual

MEWS Server components

Description: A customer-supplied server dedicated to MEWS functionality. It hosts MewsService, which is a Grass Valley service.

Nomenclature:

- None. This is a customer-supplied device.

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Server
- Model: GV STRATUS MEWS Server

SiteConfig Roles:

- GV STRATUS MEWS Engine
- GV Log Manager

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_MEWS_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*

Licenses:

- STRATUS-XCODECONTROLMEWS
- STRATUS-XCODECONTROLMEWSEXT

NOTE: *Multiple MEWS licenses of the same type are not supported in a GV STRATUS system.*

Windows Control Panel Services:

- GV STRATUS MEWS Engine. Startup type: Automatic

GV STRATUS proxy client PC components

Description: A customer-supplied PC connected to the customer's corporate LAN or to the control network for a proxy media workflow.

SiteConfig "Add Device":

- Family: GV STRATUS

NOTE: *Do not select the EDIUS family.*
- Device Type: GV STRATUS Client
- Model: GV STRATUS PC or GV STRATUS/EDIUS PC (if using EDIUS XS)

SiteConfig Roles:

- GV STRATUS Application
- EDIUS (Required for EDIUS XS)

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS XS)

Licenses:

- GV STRATUS license assigned/managed by Core Services server with role of Common Services.
NOTE: *You must not have an EDIUS Workgroup license installed on the client PC. This is an EDIUS license, not a Sabretooth license. If the EDIUS Workgroup license is installed, the EDIUS application launches as high-resolution EDIUS Workgroup, not low resolution (proxy) EDIUS XS. Running EDIUS XS and EDIUS Workgroup on the same client PC is not supported.*

Windows Control Panel Services:

- None

GV STRATUS high-resolution client PC components

Description: A customer-supplied PC connected to the K2 media (iSCSI) network for a high-resolution media workflow.

SiteConfig "Add Device":

- Family: GV STRATUS
NOTE: *Do not select the EDIUS family.*
- Device Type: GV STRATUS Client
- Model: GV STRATUS PC - SAN Client or GV STRATUS/EDIUS PC - SAN Client (if using EDIUS Workgroup)

SiteConfig Roles:

- GV STRATUS Application
- StorNext File System Client
- Generic iSCSI Client (non K2 only)

NOTE: *First install StorNext File System Client, then install Generic iSCSI Client via SiteConfig for the following:*

- *First installation of GV STRATUS application into a system.*
- *When there is an upgrade of the StorNext File System Client.*
- EDIUS (Required for EDIUS Workgroup)

K2Config Roles:

- SNFS file system client

SiteConfig cab files:

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GenericISCSI_x64_x.x.x.cab*
 - *SNFS_nonK2_x64_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS Workgroup).

Licenses:

- GV STRATUS license assigned/managed by Core Services server with role of Common Services.
- GV STRATUS high-resolution also required for each high-resolution GV STRATUS client PC.

- EDIUS Workgroup (Required for EDIUS Workgroup). This is an EDIUS license, installed on the client PC, and managed by EDIUS license management.

Windows Control Panel Services:

- CvfsPM. Startup type: Automatic
- Grass Valley K2 Config. Startup type: Automatic
- Microsoft iSCSI Initiator Service. Startup type: Automatic
- ProductFrame Discovery Agent Service. Startup type: Automatic
- Sabretooth License Server. Startup type: Manual
- Sabretooth Protocol Service. Startup type: Manual

K2 systems components

K2 system

Description: The K2 devices that provide the high-resolution assets for the GV STRATUS system. This includes standalone K2 Summit systems and K2 Media Servers that are File System Managers (FSM) on K2 SANs.

SiteConfig "Add Device":

- Family: K2
- Device Type:
 - K2 Summit Client - Standalone
 - or
 - K2 Server
- Model: As appropriate for the type of K2 system

SiteConfig Roles:

- GV STRATUS Summit Service

K2Config Roles:

- As appropriate for the type of K2 system

SiteConfig cab files:

- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_SummitServices_x.x.x.cab*

Licenses:

- On K2 Summit systems, K2 software license
- On K2 Summit systems, AppCenter Pro or Workgroup, as appropriate for the customer site. Either of these licenses enables proxy on the K2 Summit system.
- On K2 Media Servers, a license for bandwidth.

These are Sabretooth node-locked licenses, which means they are restricted to single computer.

Windows Control Panel Services:

- As appropriate for the type of K2 system. Refer to "K2 Summit Production Client Service Manual" or the "Installing and Servicing the K2 SAN" section of the K2 Topic Library.

GV STRATUS Rundown client PC components

Description: A customer-supplied PC that hosts the GV STRATUS Rundown application.

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Client
- Model: GV STRATUS Rundown

SiteConfig Roles:

- GV STRATUS Rundown Application
- GV STRATUS Application
- GV STRATUS Event Viewer
- License Manager

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_Application_x.x.x.cab*
- *GV_STRATUS_Rundown_x.x.x.cab*

NOTE: If the target machine does not have Microsoft .NET installed, SiteConfig attempts to install it. This requires that Grass Valley Prerequisite Files be installed on the SiteConfig host PC, to provide the Microsoft .NET installation files.

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
- *GrassValley_Sabretooth_Application_x.x.x.cab*
- *GrassValley_K2system_x.x.x.cab*.

Licenses:

- GV STRATUS Elite
- Aurora GFX

GV STRATUS VTR applications client PC components

Description: A customer-supplied PC that hosts the GV STRATUS VTR Ingest and GV STRATUS VTR Controller application.

SiteConfig "Add Device":

- Family: GV STRATUS
- Device Type: GV STRATUS Client
- Model:
 - GV STRATUS VTR Ingest
 - GV STRATUS VTR Controller

SiteConfig Roles:

- GV STRATUS VTR Ingest
- GV STRATUS VTR Controller

K2Config Roles:

- None

SiteConfig cab files:

- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_VTRIngest_x.x.x.cab*

NOTE: *If the target machine does not have Microsoft .NET installed, SiteConfig attempts to install it. This requires that Grass Valley Prerequisite Files be installed on the SiteConfig host PC, to provide the Microsoft .NET installation files.*

Licenses:

- STRATUS-VTR-ING

This is a Sabretooth floating license, which means it is not restricted to a single computer. You can use the license on multiple GV STRATUS VTR Ingest clients, one at a time.

GV STRATUS roles matrix

When you assign roles to users and groups, there can be additional rules, as specified in the following table. The table also gives an example of roles included in each license and if included, whether they are set to Allow (A) or Deny (D) by default. Your licenses, as procured from Grass Valley, might be different than this example.

	Elite	Pro	Flex	Express	News room Basic	Notes
Advanced Logging	A	A	No	No	No	—
Archive Rights	A	A	A	A	No	Enforced for Media Manager.
Assignment List	A	A	A	A	A	—

Auto Logout	A	A	A	A	A	Accounts not assigned this role are exempt from the auto logout process and the GV STRATUS application stays open indefinitely.
Bin Creation Rights	A	A	A	A	A	—
Change Thumbnail Rights	A	A	A	A	A	—
Channel Panel	A	A	No	No	No	—
Copy Metadata	A	A	A	A	A	—
Dashboard	D	D	D	D	No	—
Delete Rights	A	A	A	A	A	—
Edius Project Management	D	D	D	D	No	Displays EDIUS Projects node under Assets in the Navigator.
Edius XS	A	A	A	No	No	—
Export Rights	A	A	A	A	A	—
Media Manager	D	D	D	D	No	Only Media Manager allowed the following: <ul style="list-style-type: none"> • Move assets from archive to GV STRATUS system • Save public search • Access to Lost and Found folder • Extended delete type options • Create custom metadata for markers and keywords
Missing Material List	D	D	D	D	No	—
Move Rights	A	A	A	A	A	Applies to K2 storage locations and to logical Asset Groups.
Multisite Access	A	A	A	A	No	—
Playlist Editor	A	A	No	No	No	—
Queue Management	A	A	A	A	No	Allows prioritization of jobs in Monitors Jobs list.

Rename Bins Rights	A	A	A	A	A	Applies to K2 storage locations.
Restore Rights	A	A	A	A	No	Enforced for Media Manager.
RMI	A	A	No	No	No	—
Schedule Monitor	A	A	A	A	No	—
Scheduled Transfer	D	No	No	No	No	—
Scheduler	A	No	No	No	No	—
Scheduler (Read Only)	D	A	A	A	No	—
Security Manager	D	D	D	D	No	—
Segmentation	A	A	A	A	No	—
Send Message	A	A	A	A	No	—
Source Viewer	A	A	A	A	No	—
Storyboard Editor	A	A	A	A	No	—
Trim Rights	A	A	A	A	A	—
Web Monitor	A	A	A	A	No	—

Key: A=Included in license and set to Allow by default; D=Included in license and set to Deny by default; No=Not included in license.

Related Topics

[If you have trouble launching EDIUS XS](#) on page 124

About Archive/Restore roles

Archive/Restore roles are enabled by a SabreTooth license that is installed on the GV STRATUS Core server. When installed, in GV STRATUS Control Panel, the following roles are enabled and can be assigned to groups and users.

- Archive Rights
- Restore Rights

In the GV STRATUS Navigator panel, Archive systems are located under the Devices node. These systems are visible only for those with Archive Rights and/or Restore Rights.

If the role of Media Manager is assigned, the following occurs:

- Archive Rights and Restore Rights roles are enforced. You cannot remove the Archive/Restore role of a Media Manager.
- Permission is granted to move assets from an archive system to the GV STRATUS system. Without this permission, assets may be copied but not moved.

If a Newsroom Basic license, Archive/Restore roles are disabled.

Related Topics

[GV STRATUS roles matrix](#) on page 158

About Move/Delete Rights roles

In GV STRATUS Control Panel, the following roles can be assigned to groups and users.

- Move Rights: Allows assets to be moved from one bin to another. This applies to K2 storage locations and to logical Asset Groups.
- Delete Rights: Allows assets to be deleted.

In most asset transfer cases, the Move Rights role supersedes the Delete Rights role, as follows:

- Move operation: When you move an asset, by design it is deleted from the source location. Since this operation requires the Move Rights role, the Delete Rights role is not required.
- Overwrite: When an asset exists at the destination location that is named the same as the asset you are transferring, you have the option to overwrite (delete) the asset. If a move operation, since the Move Rights role is required, the Delete Rights role is not required. If a copy operation, the Move Rights role does not apply, so the Delete Rights role is required.

The Move Rights role is independent of the Archive Rights role. It is recommended that users with the Archive Rights role also have the Move Rights role, so that move operations to archive are allowed.

About Newsroom Basic

The Newsroom Basic license is for journalists that work with the GV STRATUS application as an ActiveX window within a Newsroom Computer System (NCS) application. For this workflow, only the Inspector panel and the Assignment List tool are typically required. The Newsroom Basic license provides this limited functionality as an economical solution. There is no access to the full range of GV STRATUS functionality and tools, as available with other licenses.

If your license type is changed from some other license to the Newsroom Basic license, some of your previously saved workspaces might not be available. Workspaces that contain tools for which the Newsroom Basic license has no access are not allowed. Load the Default Workspace if necessary.

Related Topics

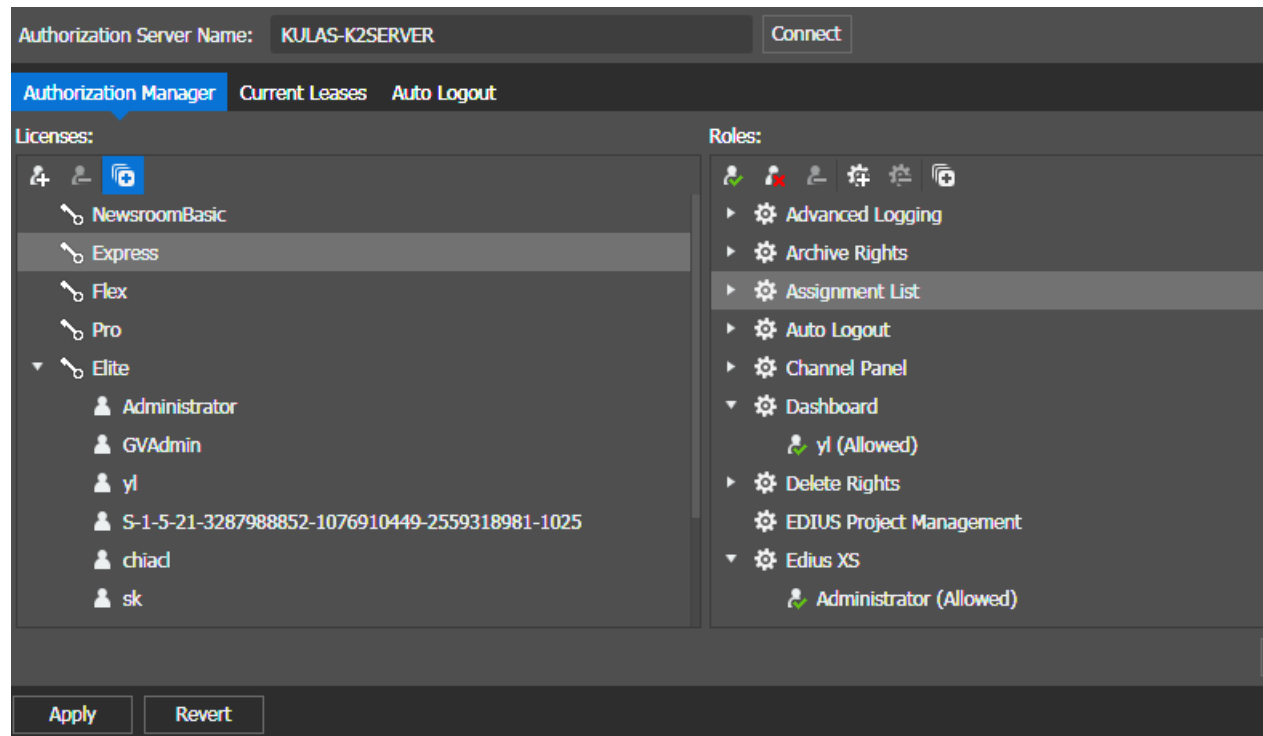
[GV STRATUS roles matrix](#) on page 158


Adding a custom role

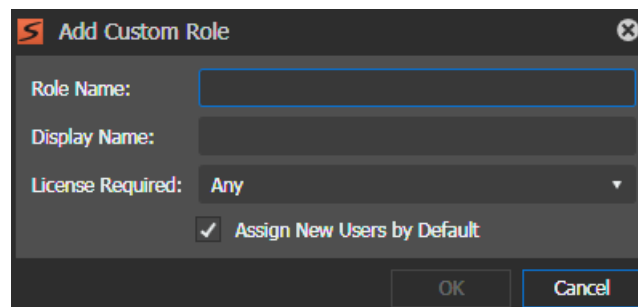
You can create custom roles in the GV STRATUS Control Panel, if desired. This is useful for license management of third party system users connected to the GV STRATUS application. If multiple

custom roles are created, you can assign tools and features to be displayed or hidden according to required licenses of these custom roles.

1. In GV STRATUS Control Panel, click **General | License Management | Authorization Manager**.




2. Click the **Add Custom Role**  button.
The Add Custom Role dialog box opens.



3. Enter details for the custom role as follows:
 - **Role Name:** The name of the newly created role.
 - **Display Name:** The custom role name to be displayed in GV STRATUS Control Panel application.
 - **License Required:** Select the required license for the custom role from the drop-down list.
 - **Assign New Users by Default:** Select the checkbox if you want to assign new users with this custom role by default.
4. Click **OK**.

The new custom role displays under the **Roles** section in the **Authorization Manager** tab.

If the custom role is not needed in future, you can remove it by clicking the **Remove Custom Role**  button.

About Auto Logout

The purpose of the Auto Logout role is to release the GV STRATUS license that is assigned to a system that has been idle for a long period of time. This returns the license to the pool of available licenses and makes it available for use by another GV STRATUS application.

In GV STRATUS Control Panel, the Auto Logout role can be assigned to groups and users. When a user account with this role is logged on to the GV STRATUS application, the GV STRATUS system monitors the host PC for activity and triggers the auto logout process if appropriate. This process is configured in Auto Logout settings.

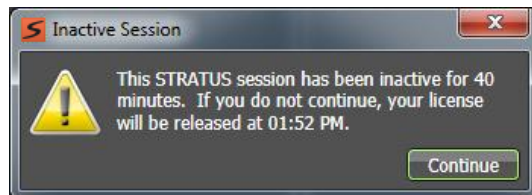
To locate these settings, click **General | License Management | Auto Logout**

The following setting specifies the timing of the auto logout process:

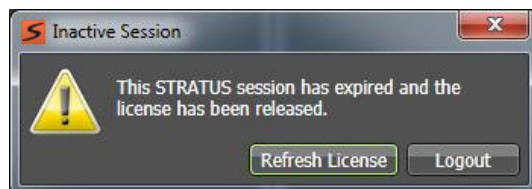
Setting or button	Description
STRATUS Application Timeout	The length of time the PC that hosts the GV STRATUS application must sit idle, with no activity, before that PC's GV STRATUS license is released.

The auto logout process occurs as follows:

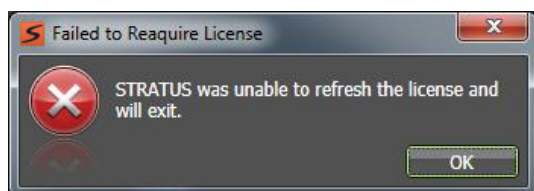
1. Five minutes before the timeout, a dialog box opens with a message specifying the time the license is to be released.



2. If a user clicks **Continue** within five minutes, the auto logout process is discontinued and the timeout is reset.
3. If there is no interaction with the message dialog box within five minutes, the dialog box closes and another dialog box opens. This second dialog box displays a message that the license is released and provides options to log off the GV STRATUS application or to refresh the license.



4. The license used currently by the GV STRATUS application is returned to the pool of available licenses. Until an option is selected, the GV STRATUS application and the dialog box remain open. The GV STRATUS application is unusable, but current work is retained.
5. When the option to refresh the license is selected, if a license is available, the GV STRATUS application is licensed and becomes usable. If a license is not available, a dialog box opens with a message about the license. Clicking **OK** logs out and closes the GV STRATUS application.



Related Topics

[Auto Logout settings](#) on page 305

Administering and maintaining the GV STRATUS system

Configuring the GV STRATUS system

Topics in this section provide instructions for configuration and housekeeping tasks necessary for customizing and maintaining your site's workflows.

About the Lost and Found folder

If you have the role of Media Manager you will find a folder named **Lost and Found** under the **Groups** node in Navigator. This is the default folder for any asset that does not otherwise have a location, meaning that there is no folder under the Navigator **Groups | Locations** node that contains the asset. When the GV STRATUS application determines that an asset does not have a location, it automatically places the asset in the **Lost and Found** folder.

Examples of an asset with no location are as follows:

- An event scheduled by the Scheduler that does not yet have an associated location.
- An asset for which the high-resolution media no longer exists in the GV STRATUS system.

If an asset in the **Lost and Found** folder later acquires a location, the asset appears in that location and is removed from the **Lost and Found** folder.

You can manage assets in the **Lost and Found** folder the same as any other folder under the **Groups** node.

Related Topics

[About the GV STRATUS Assets view](#) on page 349

Configuring delete rights

- The groups and users for which you are configuring delete rights must be set up, either on a workgroup or on a domain, on the following:
 - The GV STRATUS server with role of Common Services.
- The GV STRATUS server with role of Common Services must have the site's GV STRATUS licenses installed.

If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

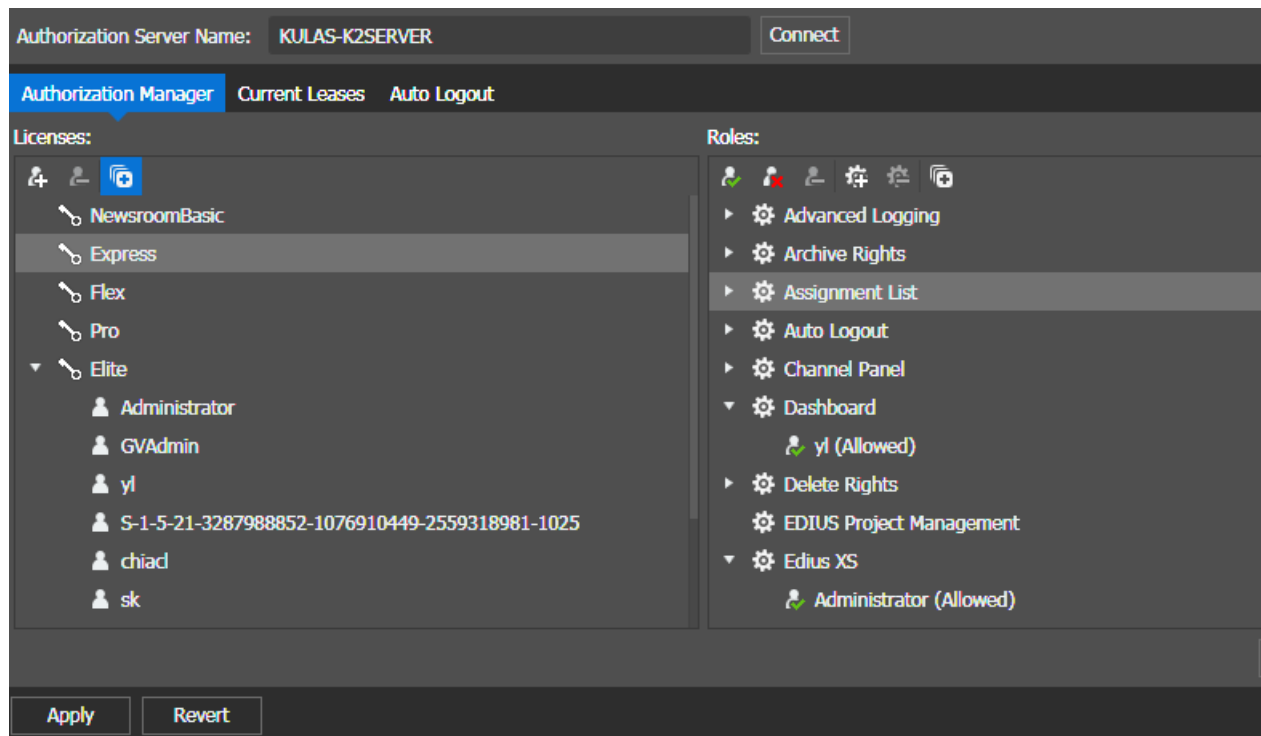
By default, all groups and users have permission to delete bins and assets. You can deny delete rights to some groups and users. When delete rights are denied, the following occurs:

- Bins and assets cannot be deleted from the GV STRATUS system.
- Delete menu items are disabled and delete keyboard shortcuts do not take effect.
- Under Favorites, bins and assets can still be removed, since doing so does not actually delete anything from the GV STRATUS system.

Delete rights apply to all licenses.

To locate these settings, click **General | License Management | Authorization Manager**

1. In the GV STRATUS Control Panel application, open **License Management** settings.



2. On the Authorization Manager tab, enter the following:

- **Authorization Server Name:** The name of GV STRATUS server with role of Common Services.

3. Click the following:
 - **Connect**: Connects to the GV STRATUS server and populates settings. If the Connect button is disabled, it means you are already connected.
4. Under **Roles**, right-click **Delete Rights** and select one of the following:
 - **Allow Group or User**
 - **Deny Group or User**
5. Use standard Windows operating system procedures to specify the group or user.
6. Click **Apply** to save your current settings, or click **Revert** to return to the last saved settings.

Revoking a GV STRATUS license lease

If a GV STRATUS user is currently using a license, you can revoke their lease on the license. This automatically closes the user's GV STRATUS application and makes the license available for a different GV STRATUS user to use.

1. In GV STRATUS Control Panel click **General | License Management | Current Leases**.

Authorization Server Name:

Authorization Manager **Current Leases** Auto Logout

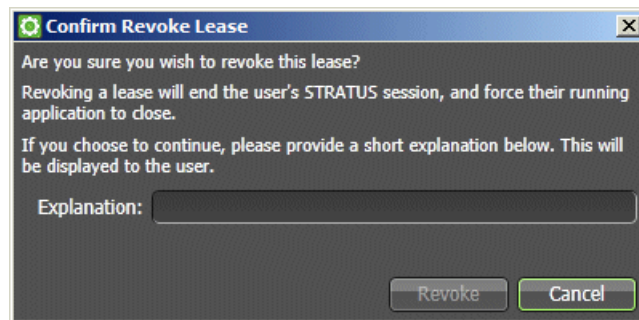
Current leases:

User Name	Client Host	License Type	Expiry
GVAdmin	10.251.53.33	Elite	5/6/2014 3:55:54 PM
Administrator	fe80::a10a:c229:2823:f932	Elite	5/6/2014 3:58:34 PM
administrator	10.251.53.92	Pro	5/6/2014 3:58:54 PM
GVadmin	10.251.52.24	Elite	5/6/2014 3:58:54 PM
GVAdmin	10.251.53.64	Elite	5/6/2014 3:59:05 PM
GVAdmin	10.251.53.33	Elite	5/6/2014 3:59:33 PM
GVAdmin	10.251.53.104	Elite	5/6/2014 3:58:37 PM
GVAdmin	10.251.53.64	Elite	5/6/2014 3:59:25 PM
GVAdmin	10.251.53.64	Elite	5/6/2014 3:59:17 PM
GVAdmin	10.251.53.64	Elite	5/6/2014 3:59:21 PM
GVAdmin	10.251.53.57	Elite	5/6/2014 3:58:32 PM

Current licenses:

License Type	Checked Out	Availability
Elite	8	12
Express	0	20
Flex	0	20
Newsroom Basic	0	20
Pro	1	19

2. Under **Current leases**, right-click a row and select **Revoke Lease**.
The Confirm Revoke Lease dialog box opens.



3. Enter a message to inform the user that their lease is to be revoked.
4. Click **Revoke**.

The following occurs:

- The license is immediately available to be used by another GV STRATUS user.
- Within one minute, the message opens in front of the revoked user's GV STRATUS application.
- 30 seconds after the revoked user clicks **OK** on the message, the revoked user's GV STRATUS application automatically closes.

Working with GV Event Viewer

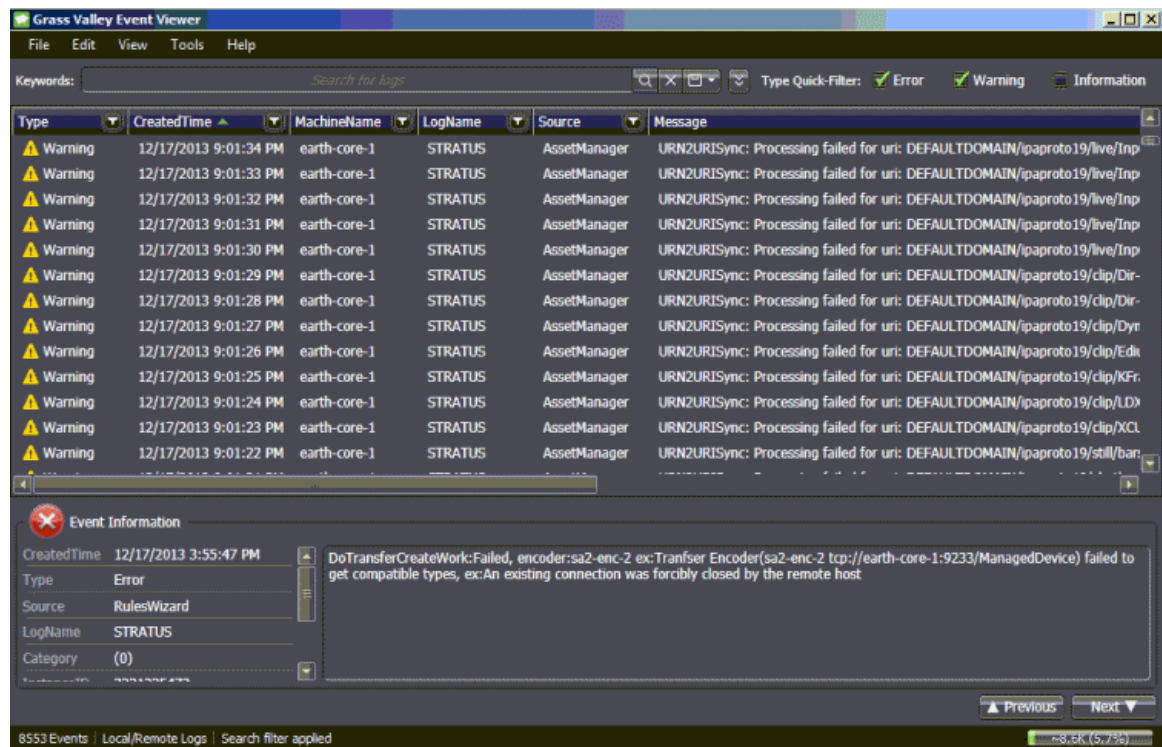
The GV Event Viewer application displays detailed information about significant events on your GV STRATUS system. Use the application only if you are a qualified system administrator or as directed by Grass Valley support.

The SiteConfig GV STRATUS Event Viewer role installs the application on GV STRATUS servers.

You can open GV Event Viewer to view event logs, save event logs as an xml file, or copy event logs into another application.

Launch the GV Event Viewer by doing one of the following:

- Double-click the **GV Event Viewer** shortcut on your desktop.
- Click **Start | All Programs | Grass Valley | GV Event Viewer**.



Remote and multiple site configuration

There are several different workflow configurations available for multiple GV STRATUS sites, to provide the level of access and functionality appropriate for your workflow requirements. The configurations are as follows:

- Browse and transfer — From your local GV STRATUS system, you can browse, search, view, and transfer assets to/from a remote GV STRATUS system.

When you access multiple GV STRATUS sites, you do so from the context of your local site. Both local and remote GV STRATUS client PCs must be able to resolve the hostnames of local GV system servers, such as Core Server, Proxy Server, and K2 system. This local site is your primary site, where you do your normal workflow tasks, such as ingesting, editing, and playing out on channels. When you access a remote site, you can search and browse the remote assets, but you cannot edit or do other operations on remote assets. You must transfer the remote asset to your local site in order to apply the full range of GV STRATUS operations to the asset. Asset transfers are allowed both ways between your local and remote sites.

Configure remote sites settings in the GV STRATUS Control Panel to access those sites in the GV STRATUS application. The setup includes the core server of the remote site and customizable name for the remote site.

- Browse, transfer, and send — In addition to the browse and transfer workflow, you can send assets from your local site to a remote site using the Send Destination feature.

To use the Send Destination feature, configure Remote K2 Storage and Locations Config settings.

- **Playout** — In addition to the browse, transfer, and send workflow, you can use the GV STRATUS Rundown functionality at the remote site.

To integrate with a playout system on a remote site, add your remote XMOS and SDB servers on the Playout Remote Sites tab in GV STRATUS Control Panel application. This allows you to view and select placeholders from your remote site.

- **Send to K2 system** — From your local GV STRATUS system, you can send assets to a remote K2 system that is not part of a GV STRATUS system, using the Send Destination feature.

To use the Send Destination feature, configure Remote K2 Storage and Locations Config settings.

If you have remote sites configured in your system, the Navigator panel displays nodes for those sites. Only the **Assets** node is displayed under remote sites. Asset indicators identify assets on remote sites.

NOTE: *When using multiple GV STRATUS sites, make sure all sites either have security enabled or disabled. Do not attempt to run mixed environments.*

Configuring multisite browse and transfer workflow

- Both local and remote GV STRATUS systems must have multisite licenses.
- The FTP networks on the local and remotes sites must be able to communicate with each other.

Configure settings in the local site GV STRATUS Control Panel application.

Configure the remote site in **Remote Sites** settings.

Related Topics

[Remote Sites settings](#) on page 249

Configuring multisite browse, transfer, and send workflow

- Both local and remote GV STRATUS systems must have multisite licenses.
- The FTP networks on the local and remotes sites must be able to communicate with each other.

Configure settings in the local site GV STRATUS Control Panel application.

1. Configure the remote site in **Remote Sites** settings.
2. Configure one or more remote K2 systems in **Remote K2 Storage** settings.
3. Configure the remote K2 systems as Send Destination in **Locations Config**.

Only those K2 systems configured in Remote K2 Storage are available for configuration as Send Destinations.

Related Topics

[Remote Sites settings](#) on page 249

[Remote K2 Storage Add/Modify settings](#) on page 287

[Locations Config settings](#) on page 307

Configuring multisite playout workflow

- Both local and remote GV STRATUS systems must have multisite licenses.
- The FTP networks on the local and remotes sites must be able to communicate with each other.

- GV STRATUS Rundown must be part of the remote GV STRATUS system.

Configure settings in the local site GV STRATUS Control Panel application.

1. Configure the remote site in **Remote Sites** settings.
2. Configure one or more remote K2 systems in **Remote K2 Storage** settings.
3. Configure the remote K2 systems as Send Destination in **Locations Config**.
Only those K2 systems configured in Remote K2 Storage are available for configuration as Send Destinations.
4. Configure the remote GV STRATUS Rundown system in **Rundown | Remote Sites**.

Related Topics

[Remote Sites settings](#) on page 249

[Remote K2 Storage Add/Modify settings](#) on page 287

[Locations Config settings](#) on page 307

[Rundown Remote Sites settings](#) on page 329

Configuring multisite send to K2 system workflow

- The local GV STRATUS system must have a multisite license.

Configure settings in the local site GV STRATUS Control Panel application.

1. Configure one or more remote K2 systems in **Remote K2 Storage** settings.
2. Configure the remote K2 systems as Send Destination in **Locations Config**.
Only those K2 systems configured in Remote K2 Storage are available for configuration as Send Destinations.

Related Topics

[Remote K2 Storage Add/Modify settings](#) on page 287

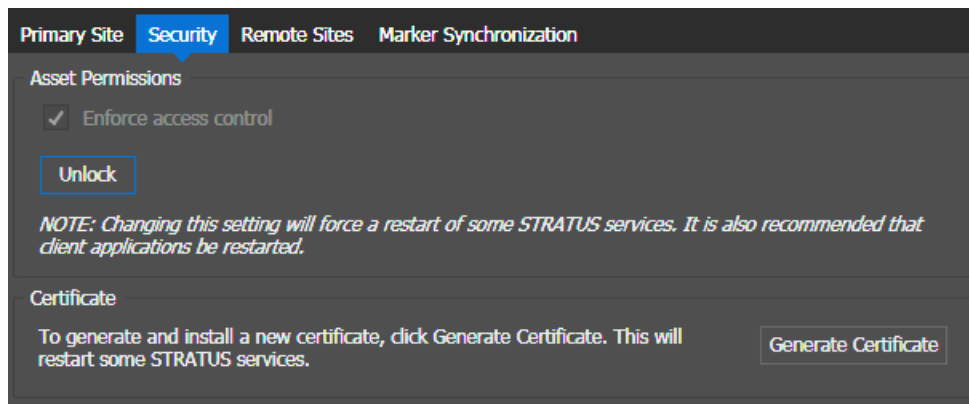
[Locations Config settings](#) on page 307

Security

GV STRATUS system security settings

These settings are required on all GV STRATUS systems.

In GV STRATUS Control Panel, to locate these settings, click **Core | STRATUS Core Services | Security**



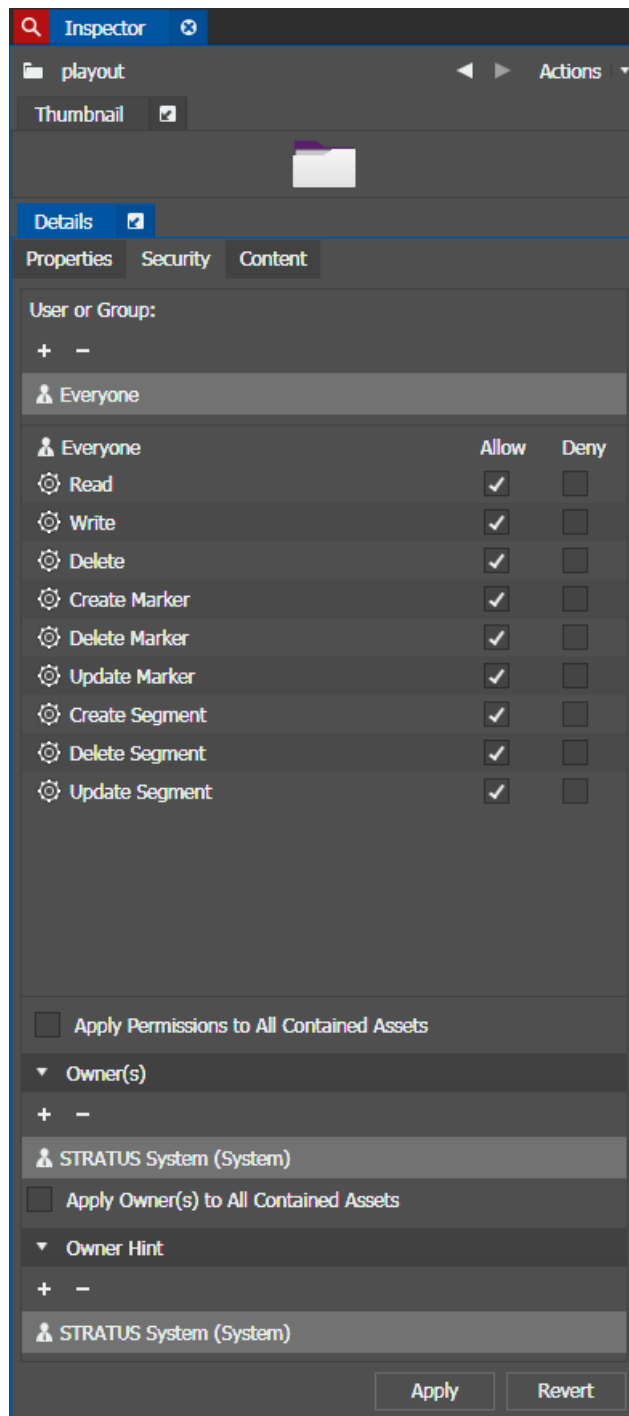
Setting or button	Description
Enforce access control	When selected, the GV STRATUS system configures, retains, and enforces security settings on assets and bins. When not selected, the GV STRATUS system configures and retains, but does not enforce, security settings on assets and bins.
Lock/Unlock	Locks and unlocks the access control setting.
Generate Certificate	This creates a self-signed security certificate and installs it on the GV STRATUS Core server. Manually generating a certificate in this way is required only if the GV STRATUS Core server name changes, or if instructed to do so by Grass Valley Support. Otherwise, generating a certificate is handled automatically by GV STRATUS software installation.
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

If settings are saved, GV STRATUS services are restarted automatically. All instances of the GV STRATUS currently open should be restarted manually.

Setting security in Inspector

- To change security settings, you must log on to the GV STRATUS application with a user account to which the Security Manager role is assigned.

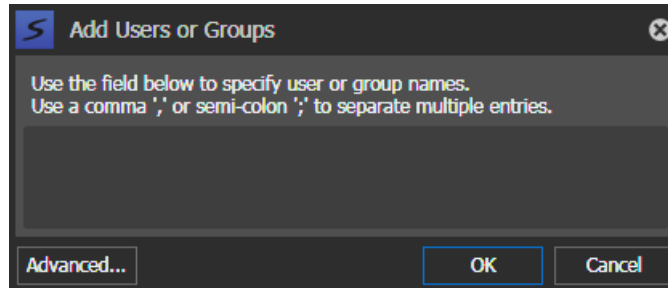
1. Load an asset or a bin into the Inspector panel and click the **Security** tab.



Security settings are displayed. If you are not logged on with a user account to which the Security Manager role is assigned, button and controls are not available for configuring settings.

2. Under **User or Group**, configure users or groups as desired.
 - a) Click **+**.

The **Add Users or Groups** dialog box opens.



- b) Enter user or groups, or if necessary click **Advanced** to open Windows operating system dialog boxes to find and validate users or groups.
3. Set permissions by selecting **Allow** or **Deny** as appropriate.

Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.
4. If a bin, select **Apply Permissions to All Contained Assets** to apply the configured permissions to assets already in the bin. This does not apply to sub-bins.
5. Under **Owner**, configure the list of owners of the asset or bin.

Owners automatically have Read, Write, and Delete permissions. These permissions take precedence over any Allow or Deny permissions that might be set otherwise. Owners also have security options while copying/moving/sending assets and creating/deleting/updating markers and segments.
6. If a bin, select **Apply Owners(s) to All Contained Assets** to apply the configured owners to assets already in the bin. This does not apply to sub-bins.
7. If a bin, under **Owner Hint**, configure the list of owners that become the default owners of any newly arrived assets in the bin or newly-created sub-bins.

If no owners are configured, a newly created asset or bin is owned by the user account that creates it.
8. Click **Apply** to save settings.

Related Topics

[GV STRATUS security considerations](#) on page 410

[Security options while copying/moving/sending](#) on page 411


Identifying security enforcement


You can identify security enforcement from the **Security Status** button  display in the application Status bar of GV STRATUS and GV STRATUS Control Panel applications.

1. In the lower-right of GV STRATUS or GV STRATUS Control Panel application Status bar, click the **Security Status** button. 

The Notification pop-up panel opens to show details of the security enforcement.



If the security enforcement is not enabled, the **Security Status** button  is not displayed on the application Status bar.

2. To close the Notification pop-up panel, click the down-arrow on the top edge of the panel or click the **Security Status** button  again.

Related Topics


[GV STRATUS system security settings](#) on page 249

Identifying asset permissions

You can identify security permissions on assets in several ways.

In Inspector, the **Permissions** property is displayed.

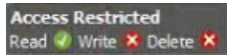
In an Asset List, you can add the **Permissions** column to display the permissions of all the assets in the list.

If your access to an asset is restricted, the **Access Restricted** icon  is displayed.



The icon can be displayed as an overlay. 

When you hover over the **Access Restricted** icon  for an asset in an **Asset List**, asset permissions are displayed as in the example below:



Related Topics

[GV STRATUS security considerations](#) on page 410

GV STRATUS security considerations

Take the following into consideration when configuring GV STRATUS security.

- If the permission on an asset does not allow you to read the asset, the GV STRATUS system hides the asset from you and does not return the asset in your search results. This behavior is different than the Windows operating system, in which a file is visible even if no permissions are allowed.
- Bins inherit permissions as follows:
 - When creating a bin, the bin automatically inherits the permissions of its parent bin.
 - When changing permissions on a bin, permissions are not recursive. Sub-bins do not inherit the changed permissions of parent bins. This is true even if **Apply Permissions to All Contained Assets** is selected.
- Deny permissions take precedence over Allow permissions. Use Deny permissions sparingly as they can cause confusion with group permissions. For example, if a specific user is assigned Deny permissions, then those permissions override the permissions that are otherwise allowed for the group to which the user belongs. This then requires the system administrator to manage access control for specific users, rather than being able to manage access control for groups, which is a recommended best practice.
- Owners automatically have Read, Write, and Delete permissions. These permissions take precedence over any Allow or Deny permissions that might be set otherwise. Owners also have security options while copying/moving/sending assets and creating/deleting/updating markers and segments.
- If you want to copy assets, read permissions on the (source) asset and write permissions on the destination are required.
- Consider the tools and workflow required for user accounts affected by changes in security settings. If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.
- The following roles allow user operations similar to the way GV STRATUS system access permissions allow user operations:
 - Delete Rights
 - Move Rights
 - Rename Bins Rights

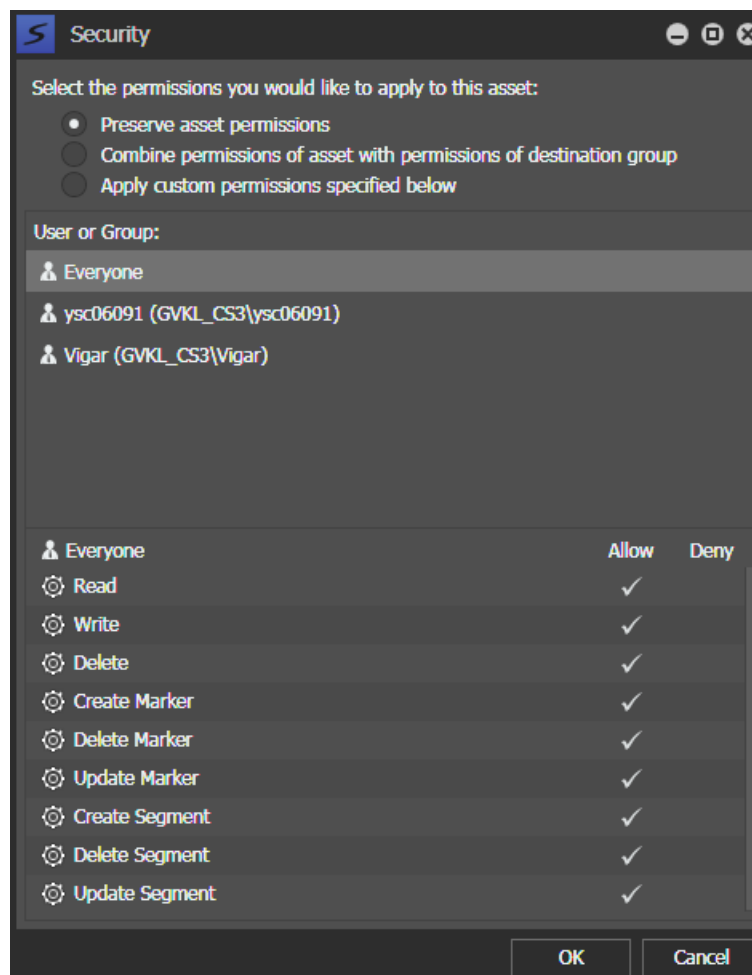
To allow/deny user operations using access permissions only, ensure that all user accounts are assigned the above roles.

- Access to assets on a remote site is limited to read-only, regardless of other permission settings. Therefore, only read not allowed or read denied effect access to remote assets. Modify and delete permissions have no effect.

Security options while copying/moving/sending

When you copy, move, or send assets, you are working with source assets and destination assets. A source asset is the original asset from which you initiate the copy, move, or send operation. A destination asset is the result of the operation and is a new asset and/or is an asset in a different location. When security access control is enforced for your GV STRATUS system, your site's policies might require that security settings be configured for destination assets. If not, destination assets will always inherit the security settings of the destination bin.

For operations on a local GV STRATUS system, you make security settings for destination assets in the **Security** dialog box. If the account you use to log in to the GV STRATUS application has the role of Security Manager, the widest range of options are displayed.



Security options are as follows:

1. **Preserve asset permissions:** Destination assets have the same security settings as source assets. When this option is selected, the resultant security settings cannot be modified. If a single asset, security settings are displayed. If multiple assets, security settings are not displayed.
2. **Combine permissions of asset with permission of destination group:** Destination assets have the same security settings as source assets. If destination bins have security settings, security settings from all destination bins and all assets are combined and applied uniformly to all bins and assets. When this option is selected, the resultant security settings cannot be modified. If a single asset, security settings are displayed. If multiple assets, security settings are not displayed.
3. **Apply custom permissions specified below:** Regardless of current security settings on assets or on bins, settings can be configured as desired. When this option is selected, security settings can be modified.

Security options apply to assets found in GV STRATUS Navigator under Locations, Groups, and Favorites.

Depending on the account you use to log in to the GV STRATUS application, the **Security** dialog box displays as follows:

- Security Manager: If the account you use to log in to the GV STRATUS application has the role of Security Manager, option 1, 2, and 3 are displayed.
- Owner: If you are the asset owner, options 1 and 2 are displayed.
- Common: If you are neither a Security Manager nor the asset owner, the **Security** dialog box is not available.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

About the GV STRATUS system user

The GV STRATUS system account is the account that the GV STRATUS services use to act as system user. The GV STRATUS system user is a "super-user" who can do everything regardless of any access control settings that have been set in the GV STRATUS system. The purpose is to protect your GV STRATUS system if other users made changes that affect everyone who uses the system. In the case it happens, the GV STRATUS system user can override those changes.

The GV STRATUS system user logon account must be the GV STRATUS internal system account.

Related Topics

[Internal system/domain account considerations](#) on page 727

GV STRATUS security and access from other applications

The GV STRATUS system accesses assets on K2 Summit/SAN media storage. The management of asset security for this access takes place in the GV STRATUS system only. GV STRATUS security does not change asset permissions on the K2 Summit/SAN media storage system. Therefore, when an application that is not GV STRATUS accesses assets directly on the K2 Summit/SAN media storage system, that access is not managed by GV STRATUS security. Take this into

consideration if you have workflows that are dependent on GV STRATUS security. Access to assets without management by GV STRATUS security can interfere with those workflows.

The following are examples of applications that can access assets directly on the K2 Summit/SAN media storage system, without being managed by GV STRATUS security:

- K2 Summit AppCenter
- Connected editors, such as the following:
 - EDIUS Workgroup
 - Adobe® Premiere® Pro CC
 - Avid Media Composer®
 - Apple Final Cut Pro

The following is an example of how accessing assets without management by GV STRATUS security can affect a workflow that depends on security.

1. There are three bins, A, B, and C, in the GV STRATUS system.
2. GV STRATUS security allows a user to have write and delete permission on bins A and B, but does not allow write or delete permission on bin C. From the GV STRATUS system, the user cannot add, remove, or modify assets in bin C.
3. From a connected editor with direct access to K2 storage, the user exports assets to the three bins. The asset exports successfully to bin C, since the user's access is not managed by GV STRATUS security.
4. The GV STRATUS system detects the presence of the newly arrived assets and adds them to the GV STRATUS database. As it does so, it applies GV STRATUS security to the asset references.
5. In the GV STRATUS application, the user attempts to move the assets in the three bins to other bins. The move is successful for assets in bins A and B but unsuccessful for the asset in bin C. This is because GV STRATUS security does not allow the user to remove assets from bin C.

In this example, the user's workflow is blocked. Since the export to all three bins was successful, the user expects to then be able to move those assets using the GV STRATUS application. But because of their GV STRATUS security settings on bin C, they can view the asset but they can't complete the intended workflow for the asset.

To prevent problems with security dependent workflows, access assets using GV STRATUS security management only. If an application has an embedded GV STRATUS panel or plugin, where you use GV STRATUS Navigator and other GV STRATUS features to access assets, then that access is managed by GV STRATUS security. For example, Newsroom Computer Systems access assets in this way. Some applications, such as high-resolution EDIUS Workgroup, can access assets both ways: via a GV STRATUS panel and also directly on the K2 Summit/SAN media storage system via the EDIUS K2 Browser. If your workflows depend on GV STRATUS security, Grass Valley recommends that you access assets only with the GV STRATUS application or with a GV STRATUS panel/plugin embedded in another application.

Working with SiteConfig

Topics in this section provide instructions for using the SiteConfig application.

Related Topics

[Understanding and using SiteConfig](#) on page 366

Installing SiteConfig

All system require this process.

If you have a control point PC supplied by Grass Valley with SiteConfig already installed, you can skip this task.

Work through the following topics to install the SiteConfig application.

About installing SiteConfig

SiteConfig uses a protocol that involves sending Ethernet broadcast messages to discover and configure devices. To enable this protocol to work correctly, there must be unrestricted network access between the PC that hosts SiteConfig and the devices to be discovered.

This is achieved if control network interfaces are all connected to the same switch or to multiple switches interconnected with ISLs/trunks. If your site requires that other switches and/or routers be in the network path, you must make sure that no restrictions are in place that block SiteConfig protocols.

Also, do not install SiteConfig on a PC on which a drive from a managed device is mapped as an administrative share (C\$). For example, if you have a PC set up to run anti-virus software and for this purpose you have network drives set up on the PC mapped to C\$ shares on devices, then do not use that PC to host SiteConfig and manage those devices.

For a given system, there should be just one instance of SiteConfig managing the system.

Related Topics

[System requirements for GV STRATUS client PC](#) on page 43

Installing/upgrading SiteConfig

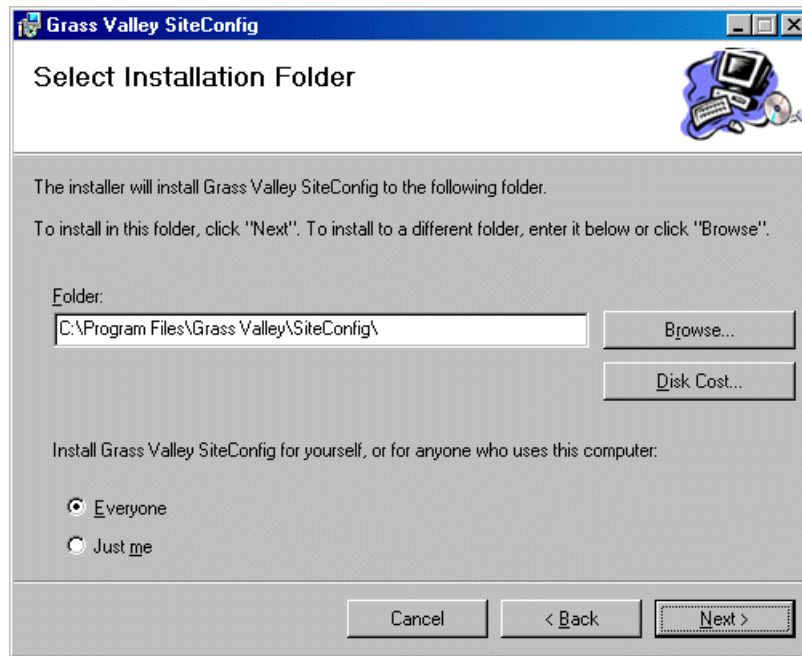
- The PC on which you are installing SiteConfig must meet system requirements.
- The PC must be connected to the LAN on which all the devices to be managed are connected.
- There must be no routed paths to the devices to be managed.

1. Procure SiteConfig installation files from the Grass Valley website or via other distribution mechanisms.

The following directory and files are required to install SiteConfig:

- *DotNetFx* directory
- *ProductFrameUISetup.msi*
- *setup.exe*

2. If you already have a version of SiteConfig installed, go to Windows **Add/Remove Programs** and uninstall it.
3. Double-click *setup.exe*.
The installation wizard opens.
4. Work through the wizard pages, clicking **Next** and **Finish**.



If the PC does not have the appropriate version of Microsoft .NET, the SiteConfig installation programs installs it.



5. Open the Windows operating system Services control panel on the PC and look for an entry called " ProductFrame Discovery Agent".
The Discovery Agent must be installed on the SiteConfig PC so that the PC can be discovered by SiteConfig and added to the system description as a managed device. This is necessary to ensure name resolution in SiteConfig's hosts file.
The Discovery Agent is also known as the Network Configuration Connect Kit. For example, in Windows Add/Remove Programs, it can be displayed as either Network Configuration Connect Kit or SiteConfig Discovery Agent.
6. Proceed as follows:
 - If the Discovery Agent is not installed, navigate to the SiteConfig install location's Discovery Agent Setup subdirectory and double-click the *DiscoveryAgentServiceSetup.msi* file. This launches the setup program and installs the Discovery Agent. Follow the setup wizard to complete installation. A restart is required after installation. Then continue with the next step in this procedure.
 - If the Discovery Agent is already installed, continue with the next step in this procedure.

7. If not already configured, configure the SiteConfig PC with a valid Ethernet IP address for the LAN using Windows Network Connections.
8. If you are not going to be using SiteConfig to manage system hosts files, put the system hosts file on the SiteConfig PC.

Related Topics

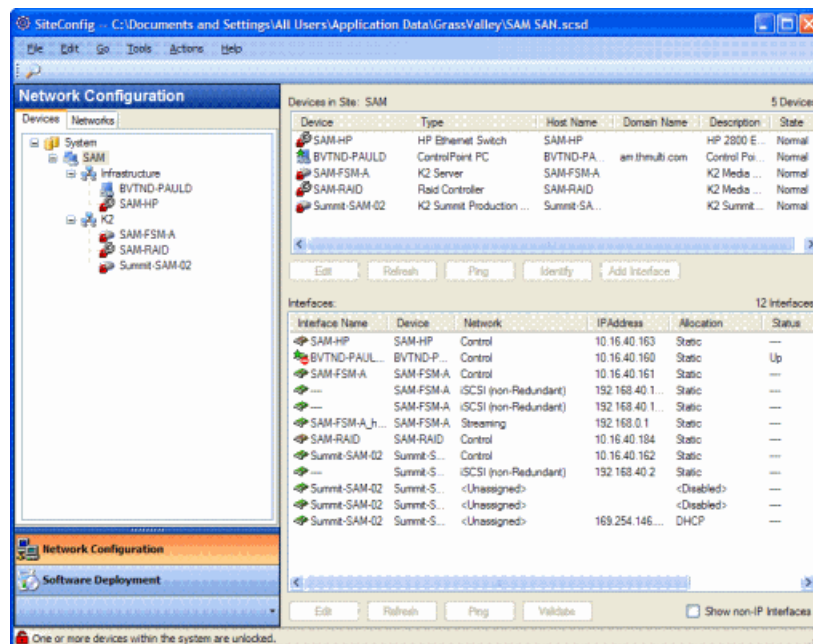
[System requirements for GV STRATUS client PC](#) on page 43

Opening SiteConfig

1. Do one of the following: Use the SiteConfig shortcut on the Windows desktop or in the Start menu to open SiteConfig.
 - On the Windows desktop, click the **Grass Valley SiteConfig** shortcut. 
 - On the Windows **Start** menu, in the **Grass Valley** folder, click the **SiteConfig** shortcut. 
2. SiteConfig opens as follows:
 - If you have previously opened SiteConfig, the SiteConfig main window opens with the most recently used system description loaded.
 - If you have not previously used SiteConfig or if SiteConfig does not have access to a system description file, you are prompted to create a new system description or to import an existing system description.
3. Respond as appropriate.

SiteConfig main window

The SiteConfig main window is as follows:



The left side of the screen shows the tree view of the currently loaded system description. The Network Configuration and Software Deployment buttons at the bottom of the tree view activate either the network configuration workspace or the software deployment workspace.

The network configuration workspace on the left has two tabs: a Devices tab to display the tree of devices in the system and a Networks tab to show the hierarchy of networks defined in the system.

The software deployment workspace also has two tabs: a Devices tab that displays the same tree view of devices but provides information about the software roles assigned to the devices and the software currently installed on devices. The Deployment Groups tab provides the interface to manage software deployment tasks.

Select an item in the tree and the view on the right side of the screen shows details about the item selected. Select a site or group to show information about all the items that fall under the selected item.

Right-click an item to access a context menu of operations.

Icon overlays on items and tooltips provide status and warning feedback.

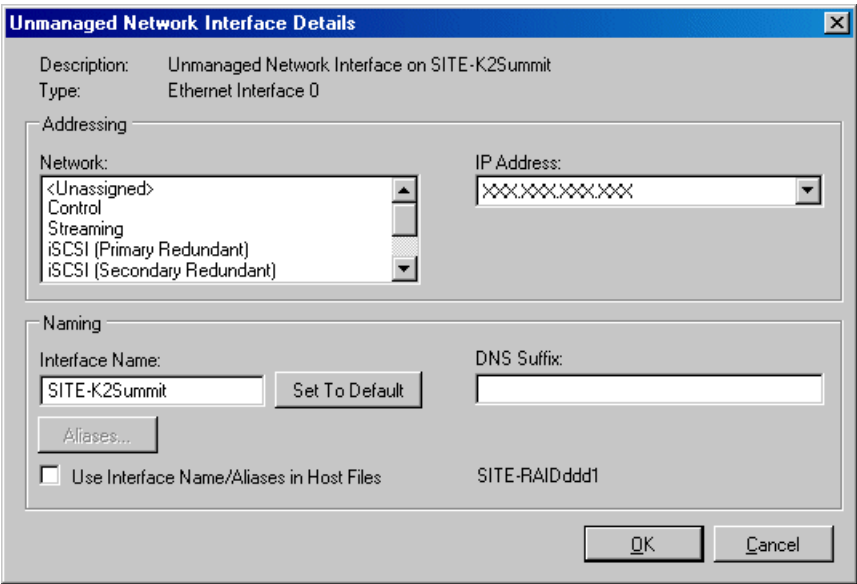
Modifying unassigned (unmanaged) control network interface

- The system description must have a placeholder device for the computer with the control network connection.
 - The placeholder device must have one or more unmanaged network interfaces.
1. In the **Network Configuration | Devices** tree view, select the placeholder device for the computer with the control network connection.

The interfaces for that device are displayed in the interfaces list view.

Edit the control network interface first.

2. In the interfaces list view, right-click the control network interface and select **Edit**.
The Unmanaged Network Interface Details dialog box opens.



The dialog box is titled "Unmanaged Network Interface Details". It contains the following fields and controls:

- Description:** Unmanaged Network Interface on SITE-K2Summit
- Type:** Ethernet Interface 0
- Addressing:**
 - Network:** A list box with options: <Unassigned>, Control, Streaming, iSCSI (Primary Redundant), and iSCSI (Secondary Redundant). The "Control" option is selected.
 - IP Address:** A text field containing "XXXXXXXXXX".
- Naming:**
 - Interface Name:** A text field containing "SITE-K2Summit". Next to it is a "Set To Default" button.
 - DNS Suffix:** A text field containing "SITE-RAIDddd1".
 - Aliases...** A button.
 - ☐ Use Interface Name/Aliases in Host Files
- Buttons:** "OK" and "Cancel" at the bottom right.

3. Configure the settings for the interface as follows:

Setting...	For control network interface
Network	<i>Control</i> is required
IP Address	The IP address for this interface on the network. Required.
Interface Name	The device host name. Required.
Set to Default	Not recommended. Sets the interface name to SiteConfig default convention, based on the root Site name and device-type.
...use Interface Name/Aliases in Host Files...	<i>Unselected</i> is required. Since not selected, the default behavior occurs, which is to use the device host name in the hosts file.
Aliases	Not allowed
DNS Suffix	Allowed, if applicable to the network. The DNS suffix is added to the interface name.

4. Click **OK** to save settings and close.

Related Topics

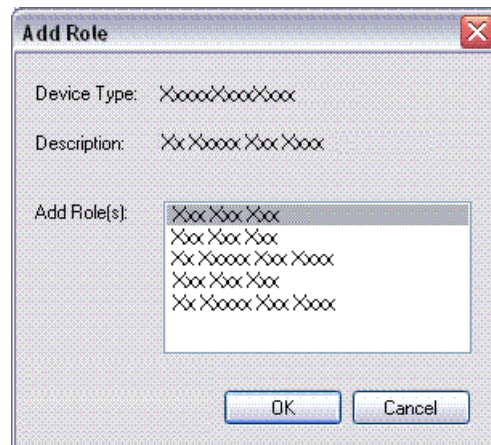
[About IP configuration of network interfaces on devices](#) on page 368

[Adding a Proxy Storage file system server to the SiteConfig system description](#) on page 614

Adding a software role to a device

1. In the **Software Deployment | Devices** tree view, right-click the device and select **Add Role**.

The Add Role dialog box opens.



The Add Role dialog box displays only those roles that SiteConfig allows for the selected device type.

2. Select the role or roles that you want to add to the device. Use Ctrl + Click or Shift + Click to add multiple roles.
3. Click **OK** to save settings and close.

The new role or roles appear under the device in the tree view.

Removing a software role from a device

1. In the **Software Deployment | Devices** tree view, expand a device's node to expose the roles currently assigned to the device.
2. Right-click the role you want to remove and select **Remove**.

The role is removed from the device in the tree view.

Adding a device to a network with SiteConfig


You can use SiteConfig to configure network settings on a device.

After you have added the device to the SiteConfig system description, work through the topics in this section to add the device to your network.

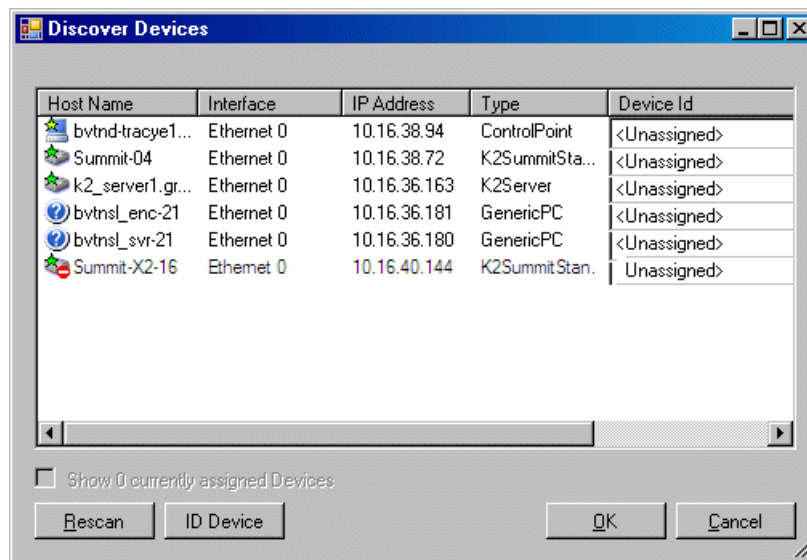
Discovering devices with SiteConfig

- The Ethernet switch or switches that support the control network must be configured and operational. If multiple switches, ISLs are connected and trunks configured.
- The PC that hosts SiteConfig must be communicating on the control network.
- There must be no routers between the PC that hosts SiteConfig and the devices to be discovered.

- Devices to be discovered must be Windows operating system devices, with SiteConfig support installed.
- Devices must be cabled for control network connections.
- If discovering a device with Microsoft Windows Server 2008 operating system, the device must have an IP address, either static or DHCP supplied.

1. Open SiteConfig.
2. In the toolbar, click the discover devices button. 


The Discover Devices dialog box opens.



A list of discovered devices is displayed.

3. Click **Rescan** to re-run the discovery mechanism. You can do this if a device that you want to discover has its network connection restored or otherwise becomes available. Additional devices discovered are added to the list.

Assigning discovered devices

- Devices must be discovered by SiteConfig
 - Discovered devices must not yet be assigned to a device in the system description
 - The system description must have placeholder devices to which to assign the discovered devices.
1. If the Discovered Devices Dialog box is not already open, click the discover devices button . The Discover Devices dialog box opens.
 2. Identify discovered devices.
 - If a single device is discovered in multiple rows, it means the device has multiple network interfaces. Choose the interface that represents the device's currently connected control connection. This is typically Ethernet ... 0.
 - If necessary, select a device in the list and click **ID Device**. This triggers an action on the device, such as flashing an LED or ejecting a CD drive, to identify the device.

3. To also view previously discovered devices that have already been assigned to a device in the system description, select **Show ... currently assigned devices**.
The currently assigned devices are added to the list. Viewing both assigned and unassigned devices in this way can be helpful to verify the match between discovered devices and placeholder devices.
4. In the row for each discovered device, view items on the Device Id drop-down list to determine the match with placeholder devices, as follows:
 - If SiteConfig finds a match between the device-type discovered and the device-type of one or more placeholder devices, it displays those placeholder devices in the list.
 - If SiteConfig does not find a match between the device-type discovered and the device-type of a placeholder device, no placeholder device is displayed in the list.
5. In the row for a discovered device, click the Device Id drop-down list and select the placeholder device that corresponds to the discovered device.
If there is no corresponding placeholder device currently in the system description, you can select **Add** to create a new placeholder device and then assign the discovered device to it.
6. When discovered devices have been assigned, click **OK** to save settings and close.
7. In the **Network Configuration | Devices** tree view, select each of the devices to which you assigned a discovered device.

Modifying managed control network interface

- The physical device you are configuring must be discovered and must be assigned to a device in the SiteConfig system description.
- SiteConfig must have communication with the device.
- The device must be defined in the system description with an appropriate network interface.

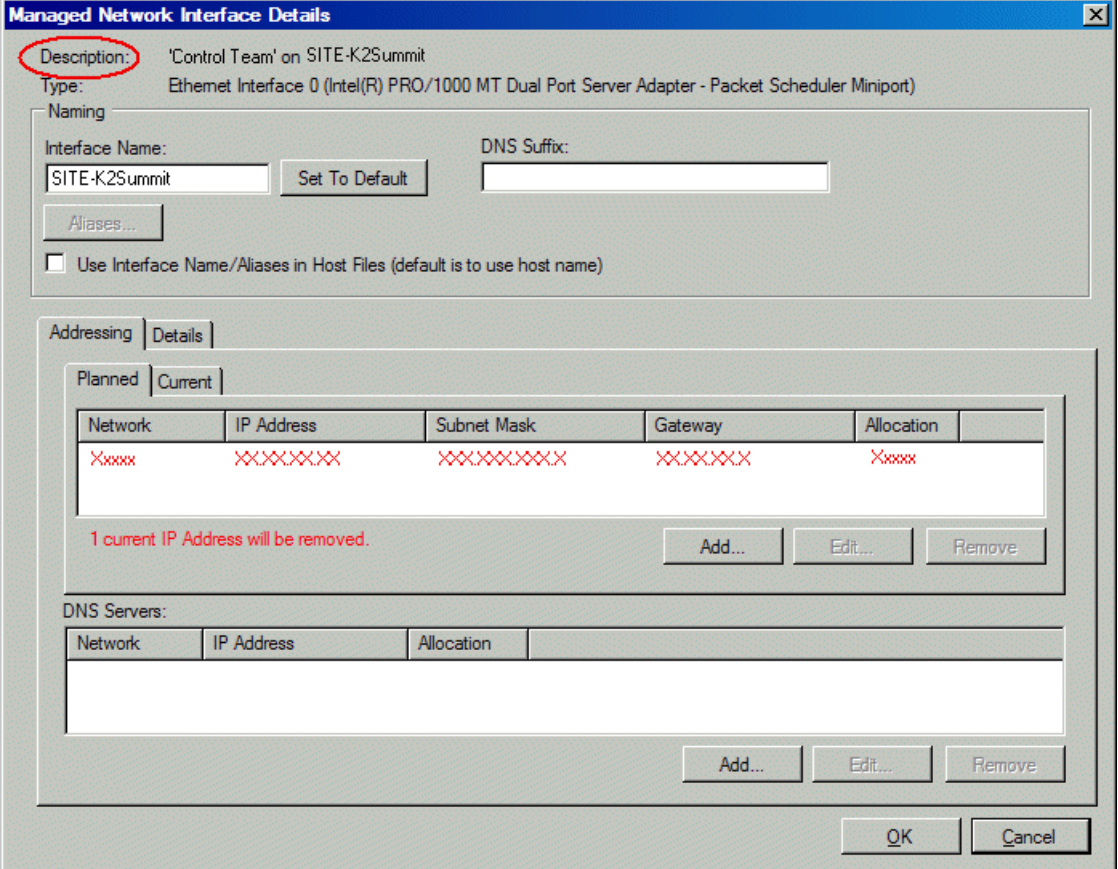
Use this task to modify managed the control network interface on a GV STRATUS server:

1. In the Interfaces list view determine the interface to configure, as follows:
 - Identify the interface with which SiteConfig is currently communicating, indicated by the green star overlay icon. This should be the control network interface.
 - Verify that the interface over which SiteConfig is currently communicating is in fact the interface defined for the control network in the system description. If this is not the case, you might have the control network cable connected to the wrong interface port. The control connection should always be the first port on the motherboard, except when you have a loopback connection.
 - Configure the control network interface only. Other interfaces are not connected.
 - A server typically has multiple network interfaces that are not connected and are not required for system functionality. Give these interfaces a name such as "Unused" to aid identification.
2. In the Interfaces list view, check the icon for the interface you are configuring.

If the icon has a red stop sign overlay, it indicates that current settings and planned settings do not match or that there is some other problem. Hover over the icon to read a tooltip with information about the problem.

3. In the Interfaces list view, right-click the control network interface and select **Edit**.

The Managed Network Interface Details dialog box opens.



The dialog box is titled "Managed Network Interface Details". It contains the following sections:

- Description:** 'Control Team' on SITE-K2Summit (circled in red)
- Type:** Ethernet Interface 0 (Intel(R) PRO/1000 MT Dual Port Server Adapter - Packet Scheduler Miniport)
- Naming:**
 - Interface Name:** SITE-K2Summit (with a "Set To Default" button)
 - DNS Suffix:** (empty text box)
 - Aliases...** (button)
 - ☐ Use Interface Name/Aliases in Host Files (default is to use host name)
- Addressing:**
 - Planned:** (empty table)
 - Current:**

Network	IP Address	Subnet Mask	Gateway	Allocation
XXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXX

1 current IP Address will be removed.

Buttons: Add..., Edit..., Remove
- DNS Servers:**

Network	IP Address	Allocation

Buttons: Add..., Edit..., Remove

Buttons: OK, Cancel

4. Identify the interface on the discovered device that you are configuring.
 - Identify Ethernet LAN adapters by their "Description" name. This is the Windows connection name. SiteConfig reads this name from the device and displays it at the top of this dialog box. This is the most accurate way to identify the network adapter on the discovered device that you are configuring.

Make sure you are configuring the control network interface.

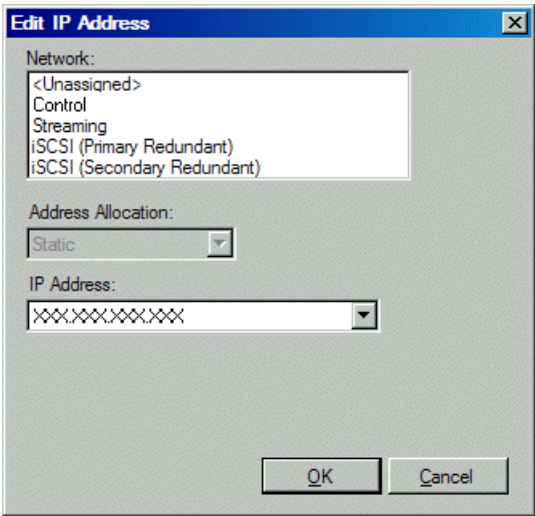
5. Configure naming settings as follows:

Setting...	For network interface Network Connection
Interface Name	The device host name. Required.
Set To Default	Not recommended
DNS Suffix	Allowed, if applicable to the network. The DNS suffix is added to the interface name.
Aliases	Not allowed
Use Interface Name/Aliases in Host Files	<i>Unselected</i> is required. Since not selected, the default behavior occurs, which is to use the device host name in the hosts file.

6. Evaluate settings on the Planned tab and change if necessary.
- Compare settings on the Planned tab with settings on the Current tab.
 - If you want to keep the current settings as reported in the Current tab, click **Remove** to remove the planned settings.
 - Do not specify multiple IP addresses for the same interface. Do not use the Add button.

- 7. To modify planned settings, do the following:
 - a) Select the network settings and click **Edit**.

The Edit IP Address dialog box opens.



- b) Edit IP address settings as follows:

Setting...	For network interface Network Connection
Network	<i>Control</i> is required
Address Allocation	<i>Static</i> is recommended.
IP Address	The IP address for this interface on the network. Required.

The networks listed in the Edit IP Address dialog box are those currently defined in the system description, with available settings restricted according to the network definition. If you require settings that are not available, you can close dialog boxes and go to the **Network Configuration | Networks** tab to modify network settings, then return to the Edit IP Address dialog box to continue.

- 8. When you have verified that the planned settings are correct, click **OK**, then **Yes** to apply settings to the device and close.

A Contacting Device message box reports progress.

9. After configuring control network settings, do the following

- a) If a message informs you of a possible loss of communication, click **OK**.

This message is normal, since this is the network over which you are currently communicating.

- b) In the Device list view, observe the device icon and wait until the icon displays the green star overlay before proceeding.

The icon might not display the green star overlay for several seconds as settings are reconfigured and communication is re-established.

- c) In the Interface list view, right-click the interface and select **Ping**.

The Ping Host dialog box opens.

If ping status reports success, the interface is communicating on the control network.

Related Topics

[About IP configuration of network interfaces on devices](#) on page 368

Making the host name the same as the device name

1. Verify that the current device name, as displayed in the SiteConfig tree view, is the same as your desired host name.
2. In the **Network Configuration | Devices | Device** list view, right-click the device and select **Edit**.
The Edit Device dialog box opens.
3. Identify the state of buttons as follows:
 - If the host name is different than the device name, the **Set to Device Name** button is enabled.
 - If the host name is the same as the device name, the **Set to Device Name** button is disabled.
4. If enabled, click **Set to Device Name**.
This changes the host name to be the same as the device name.
5. Click **OK**.
6. When prompted, restart the device.

Pinging devices from the PC that hosts SiteConfig

- The devices you are pinging must be in the SiteConfig system description.

You can send the ping command to one or more devices in the system description over the network to which the SiteConfig host PC is connected. Typically this is the control network.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. In the Devices list view, select one or more devices. Use Ctrl + Click or Shift + Click to select multiple devices.
3. Right-click the selected device or devices and select **Ping**.

The Ping Devices dialog box opens and lists the selected device or devices.

The Ping Devices dialog box reports the progress and results of the ping command per device.

Verify credentials

- The device you are verifying must be in the SiteConfig system description and must be communicating on the network.

In the SiteConfig tree-view, right-click the device and select **Remote Desktop**, then proceed as follows:

- If Remote Desktop opens without prompting you to log on, no further steps are necessary. SiteConfig credentials are set properly to allow access to the device.
- If Remote Desktop prompts you to log on, check credentials in SiteConfig and on the device and reconcile as necessary.

Related Topics

[About credentials in SiteConfig](#) on page 32

[Set credentials](#) on page 216

[Changing passwords](#) on page 587

Generating host tables using SiteConfig

- Planned control network settings must be applied to control network interfaces and devices must be communicating on the control network as defined in the system description.
- Interfaces for networks that require name resolution via the hosts file, such as the FTP/streaming network, must have settings applied and must be communicating.
- Host names defined in the system description must be correct.
- The SiteConfig PC must be added to the system description so that it is included in the host tables generated by SiteConfig.

When you add or modify devices or their IP addresses in the SiteConfig system description, you should update host tables on all devices that use them.

1. In the **Network Configuration | Networks** tree view, select a network, site, or system node.
2. Click **View Hosts file**.

A Hosts File Contents window opens that displays the contents of the hosts file as currently defined in the system description.

3. Verify the information in the hosts file.

4. Do one of the following:

- If you are managing host table information yourself, click **Save As** and save a copy of the hosts file to a location on the control point PC. Then open the copy of the hosts file, copy the desired host table information from it, and paste it into your facility hosts file as desired. Then you can use your own process to distribute the facility hosts file to devices. Remember to distribute to the control point PC so that SiteConfig and other management applications such as K2Config can resolve network host names.
- If SiteConfig is managing hosts files, do the following:

NOTE: *Writing hosts files to multiple devices consumes system resource and network bandwidth. Therefore it is recommended that you wait and do this after the system is complete and fully implemented, rather than updating hosts files incrementally as you discover/assign devices.*

- a) In the **Network Configuration | Devices | Devices** list view, right-click a device to which you intend to write the hosts file and select **View Current Host File**.

A Host File Contents window opens that displays the contents of the hosts file that is currently on that actual device.

- b) Verify that there is no information that you want to retain in the device's current hosts file that is not also in the hosts file as currently defined in the system description. If you need to save the device's current hosts file, click **Save As** and save to a different location.

- c) In the **Network Configuration | Devices | Devices** list view, right-click a device or use Ctrl + Click to select multiple devices, and select **Update Host File**.

The current hosts file is overwritten with the hosts file as defined in the system description.

Related Topics

[About hosts files and SiteConfig](#) on page 371

Licensing a GV STRATUS system

Licenses are requested through email and managed through the SabreTooth License Manager, which is installed on the Grass Valley product with the Grass Valley software. The SabreTooth License Manager must be located on the Grass Valley product.

License information is stored in XML files that you can manage just like any other file on your system. Node-locked licenses are unique to the system for which they are requested and cannot be used on any other machine. A floating license can be used on multiple machines, one at a time. You should back up the license text files to a separate drive or as part of a recovery image.

Licenses are based on your system's unique identifier, which is partially derived from your system's Media Access Control (MAC) address. If you change your system's MAC address by performing operations such as changing the System Processor card, you must obtain a new license based on the new MAC address.

To license a GV STRATUS system, one or more licenses must be installed on the GV STRATUS server with role of Common Services. If the system has a server that does proxy encoding, one or more licenses for proxy encoding must be installed on that server as well.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

Licensing GV STRATUS Rundown

If using GV STRATUS Rundown with GV STRATUS, you need the STRATUS-ELITE license installed on the GV STRATUS server with role of Common Services. The GV STRATUS Rundown application checks for the STRATUS-ELITE license in order for you to operate in both GV STRATUS and GV STRATUS Rundown environments.

Requesting a license

Features for your GV STRATUS system are enabled by SabreTooth licenses. For each server you are licensing, you must provide a generated unique ID to Grass Valley. Grass Valley uses the ID to create your unique license.

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. Generate a unique ID of the device where you will install software, as follows:
 - a) Double click on the License Manager icon on the Windows Desktop.
The SabreTooth License Manager opens.
 - b) Choose **File | Generate Unique Id** the License Manager.
 - c) Click **Copy to clipboard** to copy the generated ID, and **OK** to exit.
3. Prepare an email that includes the following information:
 - Customer Name
 - Customer Email
 - Sales Order Number
 - Unique ID of the device where you will install software.
 - The license types you are requesting.
4. Send the email to GrassValleyLicensing@grassvalley.com.

The SabreTooth license number will be emailed to the email address you specified.

Next add the license to the SabreTooth License Manager.

Adding a license

Your software license, *Licenses_<SalesNumber>.txt*, is provided as a text file. Use the License Manager to add this file to your system and enable the desired feature.

1. Double click on the License Manager icon on the Windows Desktop.
The SabreTooth License Manager opens.
2. Do one of the following:
 - Choose **File | Import License** and navigate to the file location to open the text file.
 - Drag and drop the text file onto the License Manager.

You will now see the permanent license in SabreTooth, as well as any other licenses, permanent or temporary, that have been installed on this machine.

You should archive the permanent license to a backup system.

Deleting licenses

Deleting a license disables the feature that it enabled. You might want to delete a temporary license prior to its expiry if you have decided not to purchase the feature. You can delete a temporary license after the permanent license has been installed without disabling the licensed product.

1. Select the license in the SabreTooth License Manager.
2. Use the Delete key on your keyboard or right click with your mouse and select **Delete**.

Archiving licenses

You can archive your licenses to a secure external location. This allows you to quickly re-install a license should it be deleted or should you have to downgrade and then re-license the software. You can archive multiple licenses at the same time.

NOTE: *If you downgrade to an earlier version of the licensed software, make sure to archive the licenses first.*

1. In the SabreTooth License Manager, select the license or licenses.
2. Choose **File | Export License** to open the Save As dialog box.
3. Assign a meaningful name to the file, and save it to the desired location. Grass Valley recommends saving the license file to a USB drive or other external location.

Working with GV Log Viewer

Topics in this section provide instructions for using the GV Log Viewer application.

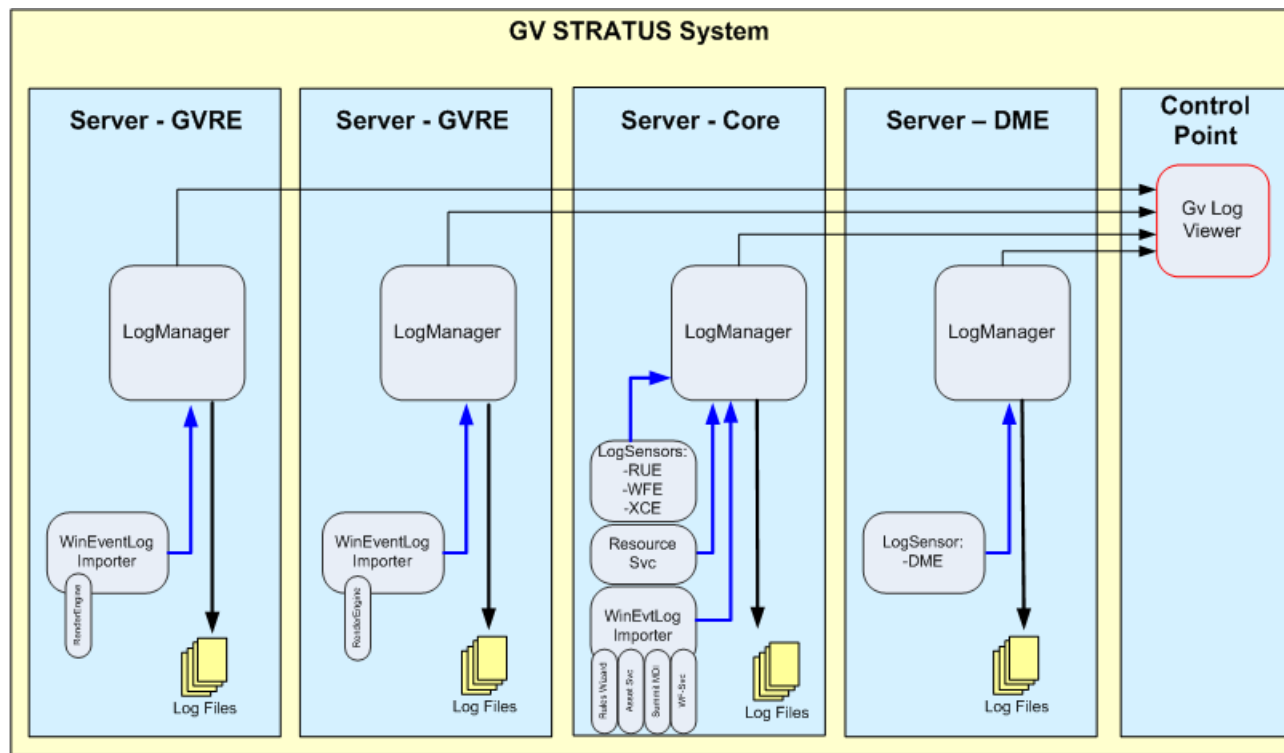
About GV Logging System

The GV Logging System consists of two main components, the GV Log Manager and the GV Log Viewer. All GV STRATUS software modules send log messages to the GV Logging System via the local GV Log Manager.

This is achieved if control network interfaces are all connected to the same switch or to multiple switches interconnected with ISLs/trunks. If your site requires that other switches and/or routers be in the network path, you must make sure that no restrictions are in place that block GV Logging System protocols.

On each GV STRATUS back-end machine, there should be a GV Log Manager running.

The diagram below provides an overview on the new GV Logging System concept.



About GV Log Manager

The GV Log Manager runs on all GV STRATUS back-end machines. It receives log messages from all local GV STRATUS software modules and store them in file(s) on the local disc.

All GV Log Managers are allowed to configure the amount of stored messages so that log files will not become too large. Furthermore, the Severity level per Log Source also can be configured. Thus, the GV Logging system provides the concept of adjusting the amount of messages to be limited at the root by setting a “Delivery Filter”.

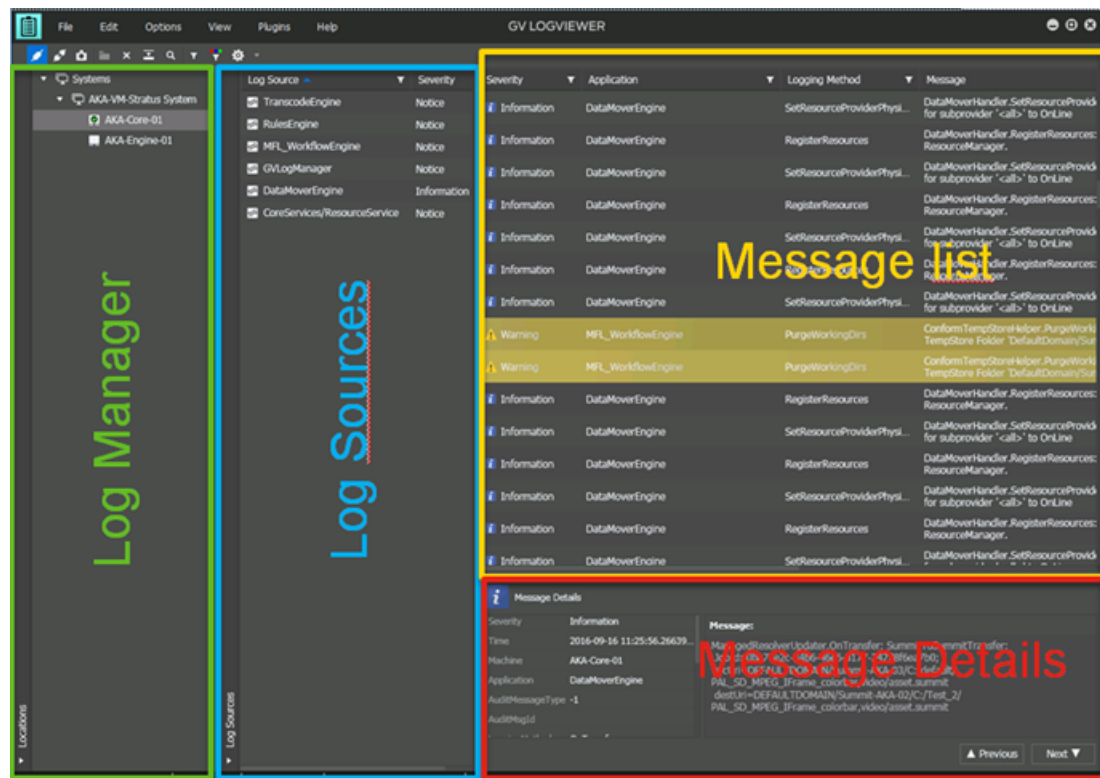
About GV Log Viewer

The GV Log Viewer allows us to connect to all machines in the GV STRATUS system. It provides the capability to view and monitor all back-end machines automatically.

The logging system extracts existing configuration data from the GV STRATUS Control Panel, including settings of the Core Server, and Engine servers such as MEWS, GV Render Engine, Xcode Control Engine, and Data Mover Engine.

The GV Log Viewer consists of these components to monitor the system:

- Log Manager
- Log Sources
- Message List
- Message Details



About GV Log Viewer controls

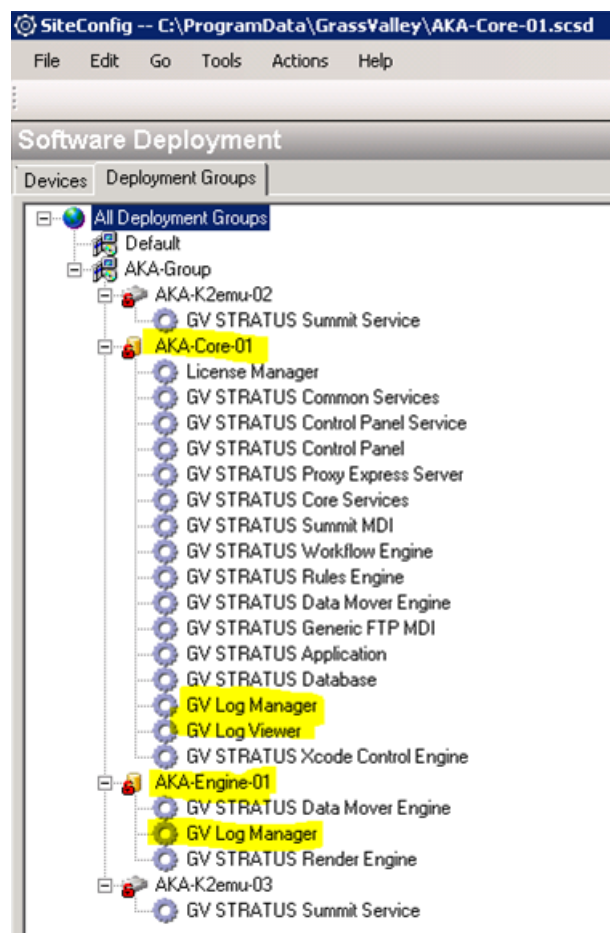
The toolbar lets you access GV Log Viewer controls.

Icon	Description
	Online mode: Allows you to switch to Online mode.
	Offline mode: Allows you to switch to Offline mode.
	Snapshot mode: Allows you to switch to Snapshot mode.
	Open file: Allows you to import messages from a file for Offline mode.
	Clear Messages: Allows you to clear all log messages.
	Auto scrolling: Allows you to toggle between enabling or disabling auto scrolling of messages.
	Find Messages: Allows you to search and find items in the messages.
	Delivery Filters: Allows you to filter messages based on pre-configured conditions.
	Message Colors: Allows you to define colors of messages in the Message List.
	Settings: Allows you to configure settings of the GV Log Viewer, such as configuration of the maximum number of messages, number of lines per log entry, and UTC timecode display.

Installing GV Logging System

Use SiteConfig to install software on the GV STRATUS Express/Core Server and back-end machines.

- The server on which you are installing software is in the SiteConfig system description and communicating on the control network.
 - The server on which you are installing software has its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV Log Manager - on GV STRATUS Express/Core Server and all back-end machines.
 - GV Log Viewer - on GV STRATUS Express/Core Server.



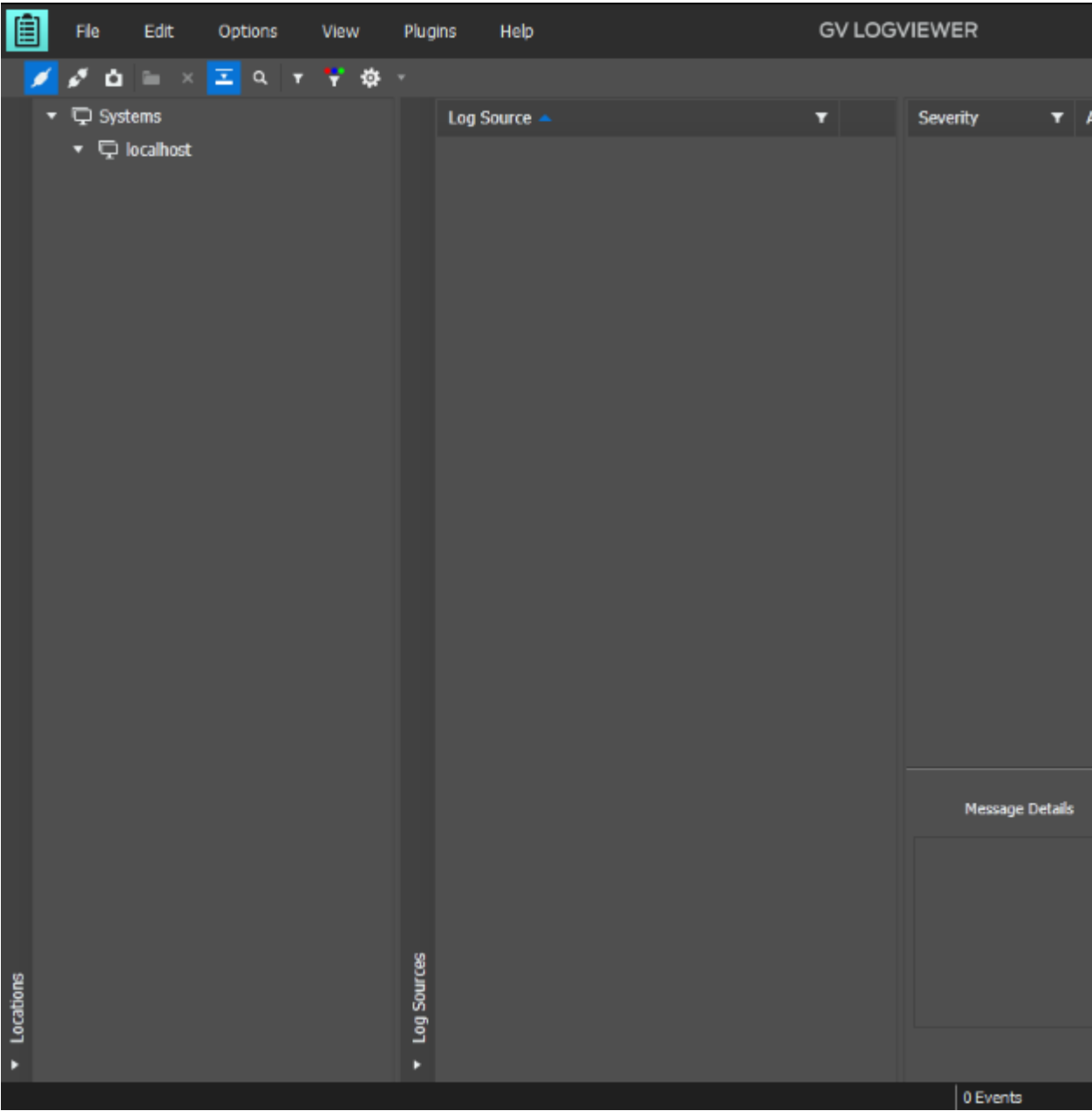
2. Add the following files to the deployment group:
 - For GV STRATUS Express/Core Server, add *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - For all back-end machines, add *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab file that apply to this device:
 - *GrassValley_LogManager_x.x.x.cab*
3. Do the SiteConfig **Check Software** operation on the server.
4. Verify that deployment tasks are set to **Install** for the files listed above.
5. Deploy software to the server.
6. Restart as prompted.

Launching and connecting the GV Log Viewer

Once you have installed the GV Log Viewer on the GV STRATUS Express/Core server, you can launch it as follows:

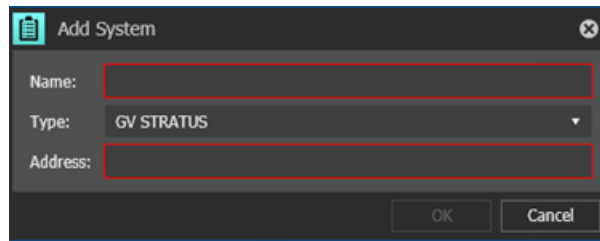
- 1. Click **Start | All Programs | Grass Valley | GV Log Viewer** .

The GV Log Viewer opens.



2. Select **File | New** to add a new system.

The Add System dialog opens.

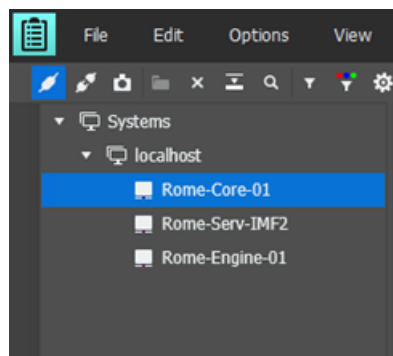


3. Enter details as below:

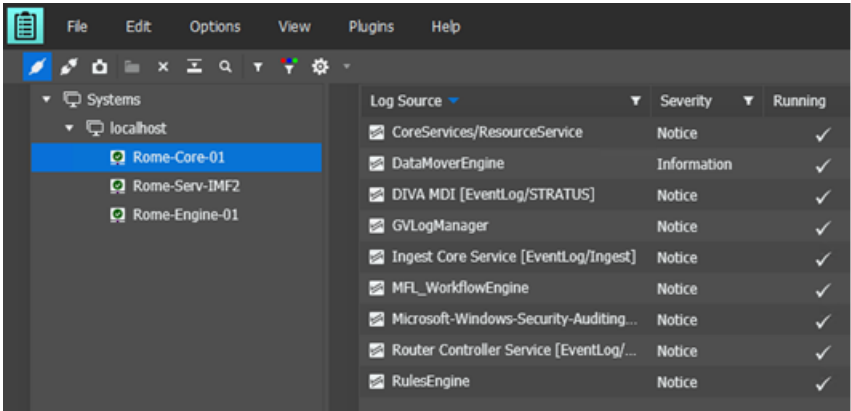
Setting or button	Description
Name	Name of the GV STRATUS Express/Core server or back-end machine to be monitored.
Type	Select the system type as GV STRATUS .
Address	Enter the IP address of the GV STRATUS Express/Core server or back-end machine.

4. Click **OK**.
5. Repeat above steps to add other systems to the GV Log Viewer.

The GV Logging System extracts configuration data of all back-end machines, such as Express/Core Server, Engine servers (MEWS, GVRE, XCE, DME) and lists all GV Log Managers installed in this GV STRATUS system.



- 6. Select a GV Log Manager from the list of back-end machines, right-click and select **Connect**.
GV Log Viewer connects to the selected GV Log Manager and displays as connected with the green tick sign.

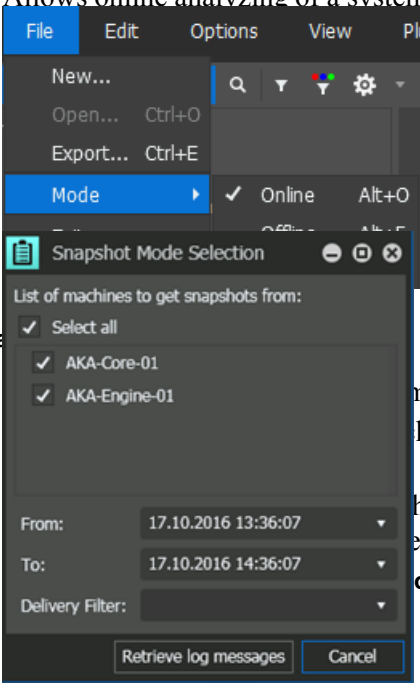


By default, all Log Sources are set to the Severity Level - **'Notice'** and new messages will be listed when connected.

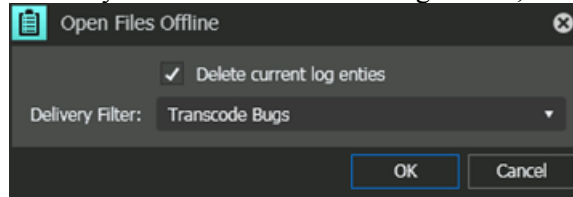
About logging modes in GV Log Viewer

The GV Logging System provides three type of logging modes: Online, Snapshot and Offline. Supported logging modes are as follows:

- **Online:**
 - Allows online analyzing of a system by live monitoring of the system behavior based on log messages received from the GV LogManager(s) at the same time.
 - Log messages are displayed from the moment the operator started the application with the Online mode. If not, you can select **File | Mode | Online**.
- **Snapshot:**
 - Allows analyzing of a system in the past for log messages to be analyzed.
 - Select a machine you are interested in and select a pre-configured snapshot.
 - The particular machine and specific dates are listed allowing you to select a specific time-frame when the failure happened.
 - If you select the Snapshot mode, the dialog below appears for you to configure the snapshot.



- **Offline:**
 - Allows you to load log files from a GV STRATUS system into the GV LogViewer to analyze log messages from a remote system.
 - Allows you to delete the current log entries, select a delivery filter, and select the log file(s)



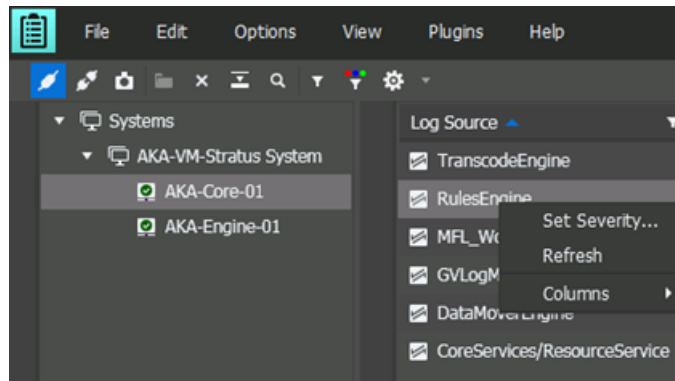
Now appears for you to configure the Offline mode. After clicking **OK**, another dialog appears for you to load.

Since it is possible to configure the Severity level and Trace level for certain Log Sources, you can expect lots of log messages to be analyzed. These three different logging modes allow a service personnel to isolate the time-frame and specific system component he needs when searching through the log messages.

Configuring the Severity Level

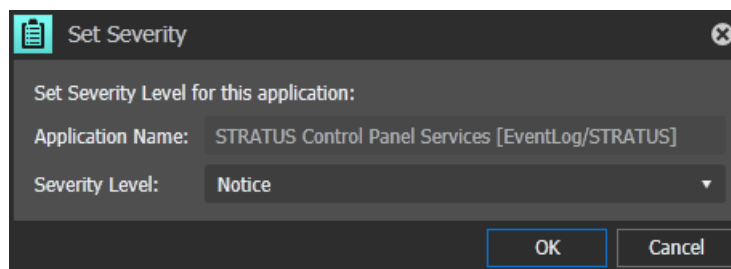
You can set the GV Log Viewer to display log messages according to the severity level. By this way, you can focus on relevant messages from specific software modules of GV STRATUS that require a deeper analysis.

1. Select a system in the Log Manager panel to display log sources in the Log Source panel.



2. Right-click on a Log Source and select **Set Severity**.

The **Set Severity** dialog opens.



3. Select a Severity Level from the following:

Option	Severity Level
Fatal	1
Error	2
Warning	3
Notice	4
Information	5
Debug	6
Cyclic	7
General	8

4. Click **OK**.

GV Log Viewer displays log messages from that particular software module in the selected Severity level and above. For example if the default Severity level is set to Notice (4), then log messages from level 1-4 are stored and displayed in GV log Viewer.

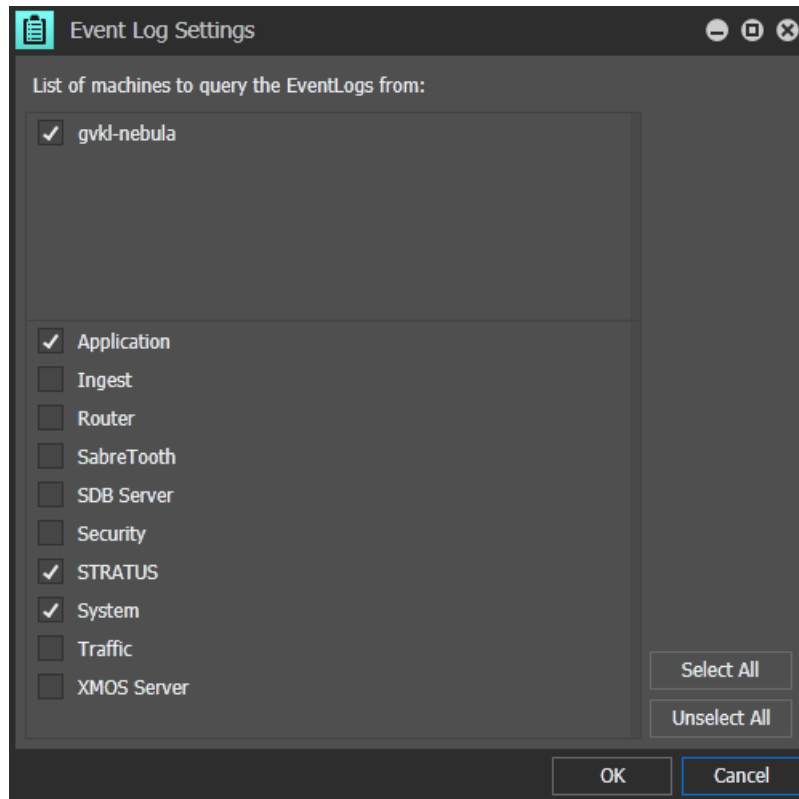
Viewing Windows Event Log in GV Log Viewer

You can configure Windows Event Log messages to be displayed via the GV Log Viewer. This allows you to import those messages, store them in GV Log files, and view them with all other messages from different Log Sources.

1. Select a GV STRATUS back-end machine in the Log Manager panel to retrieve its Event Log.

2. Right-click on the selected machine and select **Event Log Setting**.

The **Event Log Settings** dialog opens.



All applications running on that system are displayed.

3. Select the applications you want to retrieve log messages from.

You can click the **Select All** button to retrieve log messages from all applications.

You can also click the **Unselect All** button to reset and deselect from all applications.

- Click **OK**.

Event Log messages from the selected applications are stored then by the GV Logging system and displayed from now on in the GV Log Viewer.

Log Source ▲	Severity ▼
<input checked="" type="checkbox"/> XREController [EventLog/XRE]	Notice
<input checked="" type="checkbox"/> GVRenderEngine [EventLog/...	Notice
<input checked="" type="checkbox"/> GVLogManager	Notice
<input checked="" type="checkbox"/> EdiusRenderer [EventLog/XRE]	Notice
<input checked="" type="checkbox"/> EDIUS [EventLog/EdiusOpera...	Notice
<input checked="" type="checkbox"/> EDIUS [EventLog/EdiusLogO...	Notice
<input checked="" type="checkbox"/> DataMoverEngine	Notice

Log Sources pulled from the Windows Event Log have their sources display in square brackets behind each Log Source name.

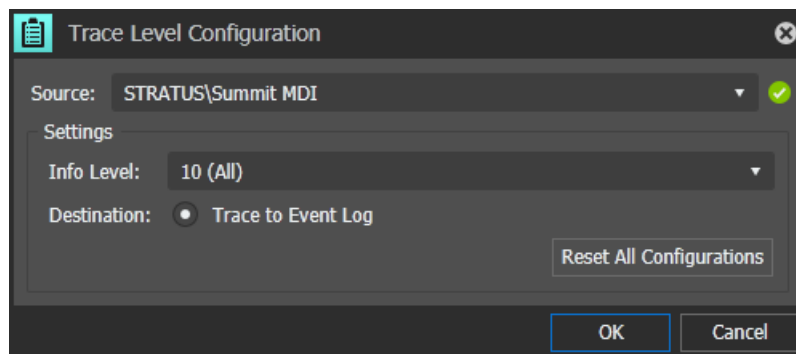
NOTE: *Log Sources from applications logging into the Windows Event Log are displayed the first time when they are producing log messages.*

Configuring the Trace Level

Some GV STRATUS software modules are logging into the Windows Event Log. For those software modules, the configuration of the Trace Level provides the capability to adjust the amount of messages written into the Windows Event Log / GV STRATUS Log.

- Click **Plugins | GV STRATUS | Trace Level Configuration**.

The Trace Level Configuration dialog appears.



- Select a Log Source from the **Source** drop-down list.

The green tick sign displays if the log source is enabled to be traced.

- Select an **Info Level** between **0 (None)** - **10 (All)**.

By default, the Destination is always set to **Trace to Event Log**.

You can also click the **Reset All Configurations** button to disable and reconfigure all traces.

4. Click **OK**.


All configured traces are sent to the Windows Event Log.

Since Trace Levels are stored in the systems registry, you must restart the affected GV STRATUS component to apply the Trace Level change.

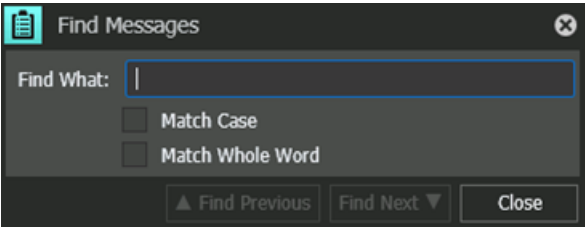
NOTE: A restart of a service or an MDI has an impact on the system operation. Therefore, ensure there is no important operation in progress before restarting the particular system.

Searching log messages

You can search for specific items in log messages via the Search function or using the Filter in columns.

- To search via the Search function, do one from the following options:
 - Click the **Search** button  on the toolbar.
 - On the main menu, select **Edit | Find Messages**.
 - Press **Ctrl + F** keys.


The Find Messages dialog appears.






Enter the term that you want to search for, select whether you require the **Match Case** or **Match Whole Word** option, and press **Enter**.

The search results are highlighted in the Message List. Click **Find Next** or **Find Previous** button to keep searching the term throughout your log messages. Click **Close** to close the Find Messages dialog.

Severity	Application	Message	Time
Notice	GVLogViewer [Eve...	Log sensor instance GVLogViewer [EventLog/Application] initialized in process GVLogManager	2016-10-31 14:28:48.7837533
Error	GVLogViewer [Eve...	GVLogViewer [Error] GVLogViewer:ConnectionTest: Error in ConnectionTest for LogMgr on http://Oslo-MEWS-01/GVLogManager/Viewer. Exception: System.ServiceModel.EndpointNotFoundException:	2016-10-31 14:28:48.7837533
Notice	GVLogManager	GVLogSensor threshold set to Notice	2016-10-31 14:24:41.7141729
Notice	GVLogManager	GVLogSensor threshold set to Notice	2016-10-31 14:24:40.9828406
Warning	DIVA MDI [EventL...	Flashnet MDI has encountered problems in getting list of assets,	2016-10-31 14:24:43.9151864
Warning	DIVA MDI [EventL...	Flashnet MDI has encountered problems in getting list of assets,	2016-10-31 14:19:43.7578234
Warning	DIVA MDI [EventL...	Flashnet MDI has encountered problems in getting list of assets,	2016-10-31 14:29:44.0812000
Warning	DIVA MDI [EventL...	Flashnet MDI has encountered problems in getting list of assets,	2016-10-31 14:34:44.2462135
Notice	AssetManager [Ev...	Finished URN2URISync	2016-10-31 14:19:58.7528234
Error		n getting alive status: Details: ception: There was no /80/atlas/datamoverengine	2016-10-31 14:20:13.5748234
Error		n getting alive status: Details: ception: There was no /80/atlas/datamoverengine	2016-10-31 14:35:22.1440029
Error		n getting alive status: Details: ception: There was no /80/atlas/datamoverengine	2016-10-31 14:21:14.1418234
Error	CoreServices/Reso...	System.ServiceModel.EndpointNotFoundException: There was no endpoint listening at http://oslo-core-01:8080/atlas/datamoverengine	2016-10-31 14:24:15.8733825
Error	CoreServices/Reso...	DmeResource:RegisterResource - Exception getting alive status: Details: System.ServiceModel.EndpointNotFoundException: There was no endpoint listening at http://oslo-core-01:8080/atlas/datamoverengine	2016-10-31 14:23:15.3003258


- To search via the column filter, click the **Filter** button  at the head of a column. Enter the term that you want to search for, and press **Enter**.

The search results appear in the Message List.

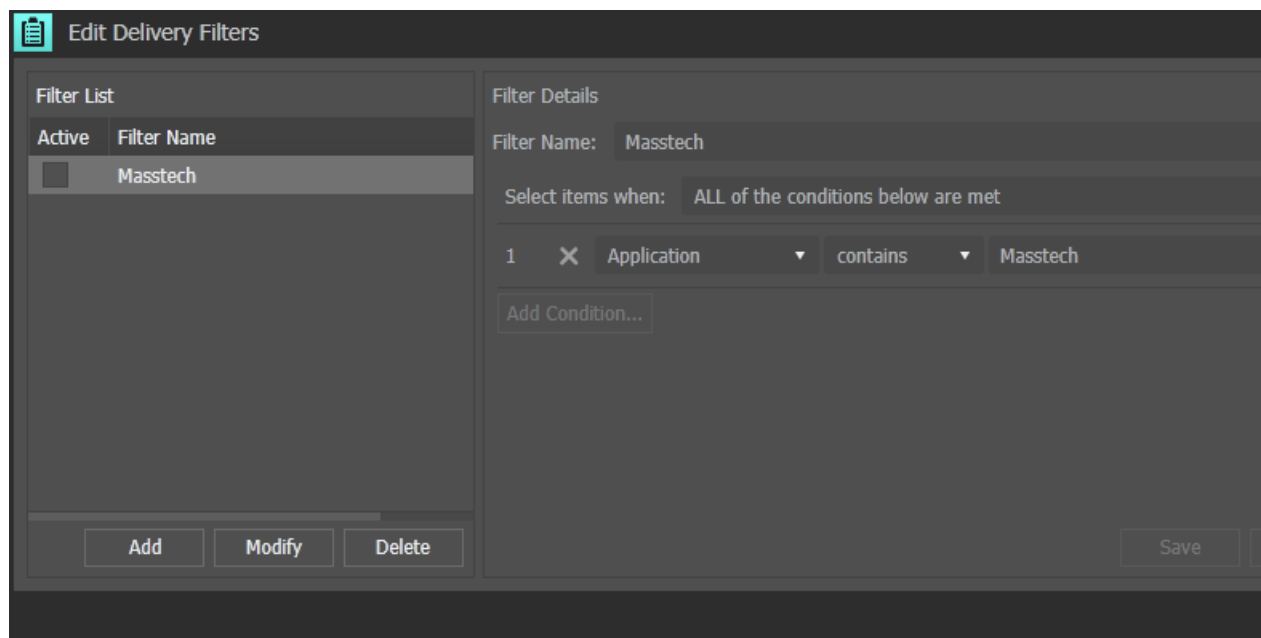
Severity	Application	Message	Time
		threshold 	
 Notice	GVLogManager	GVLogSensor threshold set to Notice	2016-10-31 14:24:41.7141729
 Notice	GVLogManager	GVLogSensor threshold set to Notice	2016-10-31 14:24:40.9828406

Creating a Delivery Filter

You can create delivery filters with specific conditions and find information easily within your log messages.

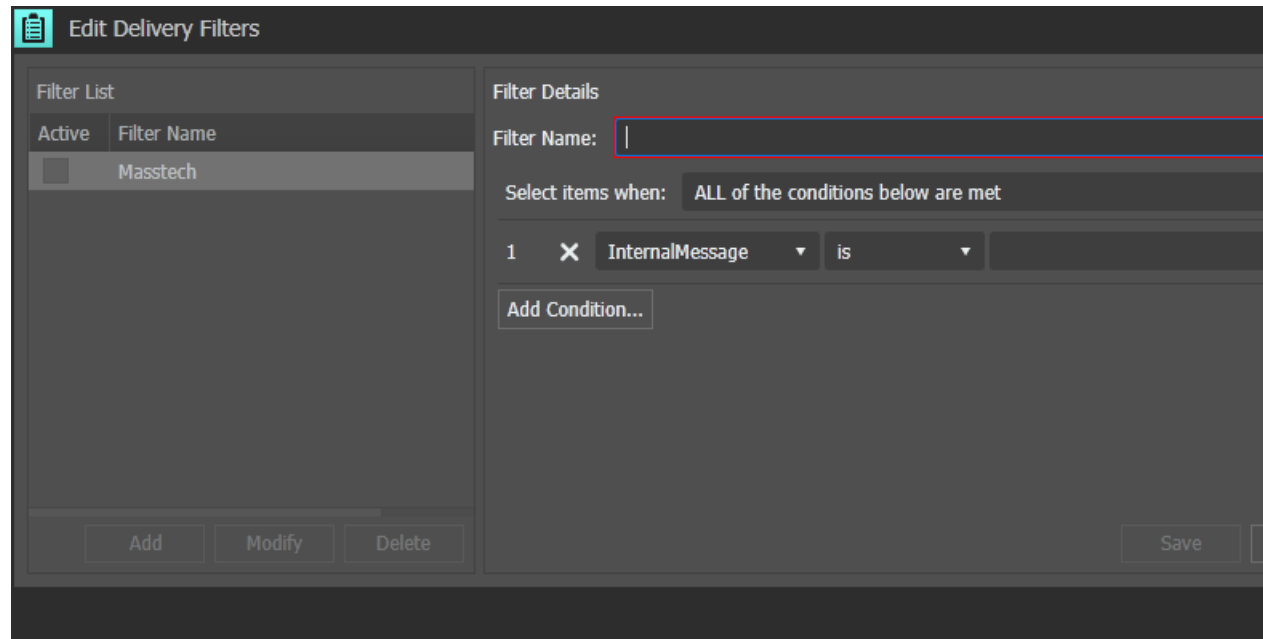
- Do one from the following options:
 - On the toolbar, click the **Delivery Filter**  button.
 - On the main menu, click **Options | Delivery Filter**.

The Edit Delivery Filters window appears.



2. Click the **Add** button to create a delivery filter.

The Filter Details section is enabled in the Edit Delivery Filters window.



3. Enter a name for the filter.
4. In the **Select items when** drop-down list, select one of the following:
 - **ALL of the conditions below are met:** For results that match all conditions.
 - **ANY of the conditions below are met:** For results that match any condition.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

5. Configure conditions as follows:
 - For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
 - Click the **X** button to remove a condition from the list.
6. Click **Save**.

The newly created filter appears in the Filter List.


You also can select a filter in the Filter List and click **Modify** to edit the filter, or click **Delete** to delete the filter.

The Delivery Filter can be selected to filter log messages in both Snapshot and Offline modes.

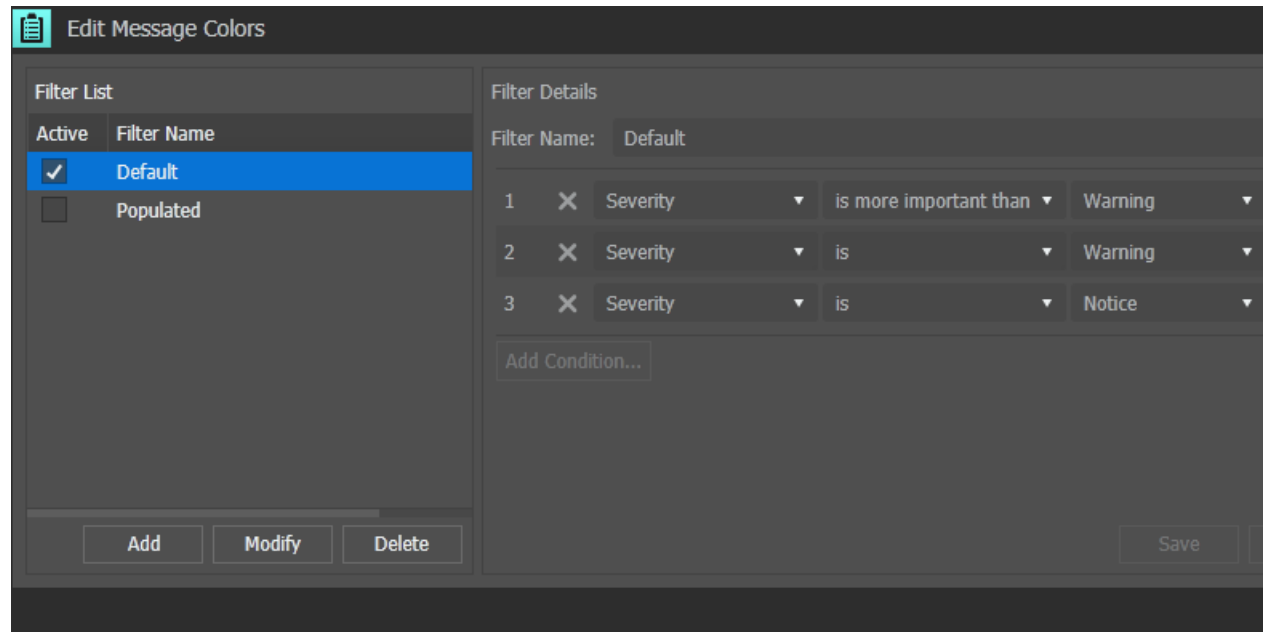
Configuring colors for log messages

You can configure different colors for log messages display to find information easily at a glance.

1. Do one from the following options:

- On the toolbar, click the **Message Colors**  button.
- On the main menu, click **Options | Message Colors**.

The Edit Message Colors window appears.



2. Click the **Add** button to configure colors for your log messages.

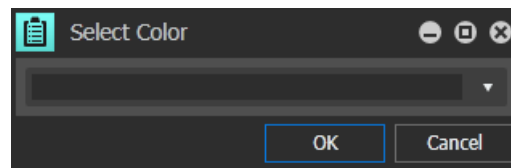
The Filter Details section is enabled in the Edit Message Colors window.

3. Enter a name for the filter.

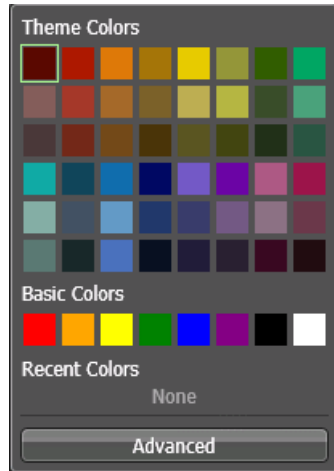
4. For each condition (1, 2, 3, 4, etc), select from drop-down lists to define the condition.

5. Click the **Color** button to assign a color to each condition.

The Select Color dialog appears.



6. Click the drop-down list to display the color palette, and do one of the following:
 - Select any theme or basic colors as provided.

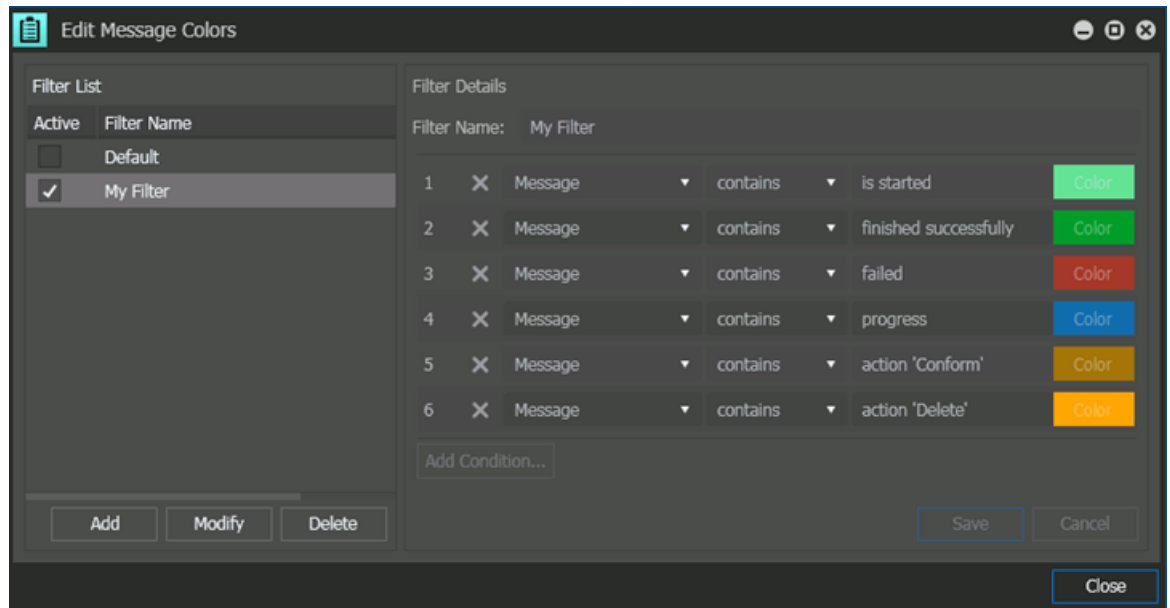


- Click **Advanced** to define your own custom color and RGB values.



7. Click **OK** to save the selected color for the condition.

8. Click **Save** and **Close** after colors are configured for all conditions.



The newly created filter appears in the Filter List.


You also can select a filter in the Filter List and click **Modify** to edit the filter, or click **Delete** to delete the filter.

Log messages display according to selected colors in the Message List.

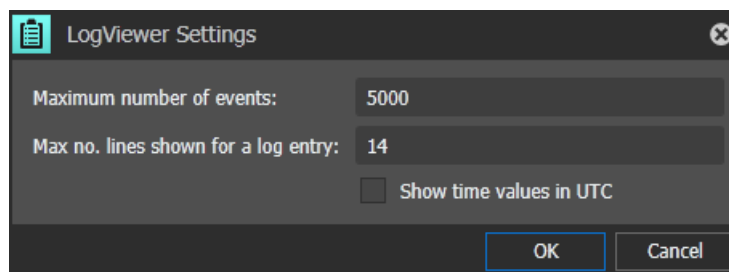
Severity	Application	Time	Message
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	Wp [TransactCopyToPayout_20161007T155045(684ce827-57eb-40f1-9d6b-37402a4e1eb2) - Wpt WPT_RE
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	@EXIT ApExecutorHandler.ExecutorOrderComplete: WpID=684ce827-57eb-40f1-9d6b-37402a4e1eb2, Wor
Notice	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: Check for Asset of Association 'DEFAULTDOMAIN/SummitMDI-WRE-K2emu-02/C
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: Rename Assets is bypassed; No existing Asset for the given Destination Assoc f
Notice	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: WFL Progress is: 10%
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: Retain Operation 'CreateAsset' in Undo-Stack; Operation: CreateAsset Invers Operation: Delete(Entire)Asset) Params: Uri (Pre-Created): DEFAULTDOMAIN/Metadata//72689a6b-4d30-4d05-a120-f2af1f0e6e13,metadata/Media
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: CreateAssetActivity: CreateAsset for Asset C&C_TestClip_6_30sec is started
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: CreateAssetActivity: Device: Metadata RegisteredType: metadata/MediaFrame Metadata: Name=C&C_TestClip_6_30sec ACL: S-1-1-0: +[Read Write Delete CreateMarker UpdateMarker DeleteMarker CreateSegment UpdateSegment D
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	Wp [TransactCopyToPayout_20161007T155045(684ce827-57eb-40f1-9d6b-37402a4e1eb2) - Wpt WPT_RE
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	StratusAssetExecutor.CreateAsset: Asset Created. AssetId = 'DEFAULTDOMAIN/Metadata//72689a6b-4d30-
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	@ENTRY ApExecutorHandler.ExecutorOrderComplete: WpID=684ce827-57eb-40f1-9d6b-37402a4e1eb2, W
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	Wp [TransactCopyToPayout_20161007T155045(684ce827-57eb-40f1-9d6b-37402a4e1eb2) - Wpt WPT_RE
Information	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	@EXIT ApExecutorHandler.ExecutorOrderComplete: WpID=684ce827-57eb-40f1-9d6b-37402a4e1eb2, Wor
Notice	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: WPT_REE_TransactCopy:: CreateAssetActivity: CreateAsset for 'DEFAULTDOMAI
Notice	MFL_WorkflowEngine	0001-01-01 01:00:00.0000000	WPT_REE_TransactCopy:: WFL Progress is: 15%
			WPT_REE_TransactCopy:: CreateAssetActivity: Essence Import AddLink (CreateAssociation) is started

Configuring GV Log Viewer settings

In the GV Log Viewer settings, you can configure the maximum number of events or lines shown in a log entry and the UTC timecode display.

- Do one from the following options:
 - On the toolbar, click the **Settings**  button.
 - On the main menu, click **Options | Settings**.

The Log Viewer Settings dialog appears.



- Enter the maximum number of events to be displayed in the GV Log Viewer.
- Enter the maximum number of lines shown for a log entry.
- Select the check box if you want to display time values in UTC.

- Click **OK**.

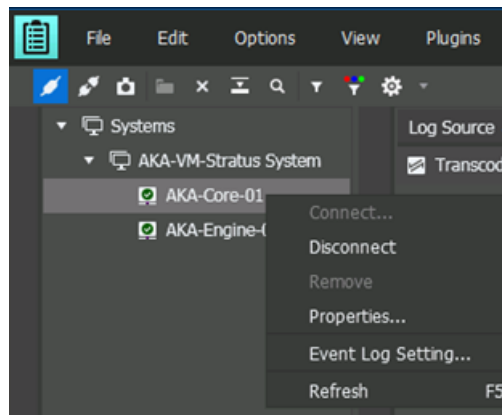
GV Log Viewer updates the Message List according to the new settings.

Configuring GV Log Manager properties

For each connected system, you can configure these GV Log Manager properties below:

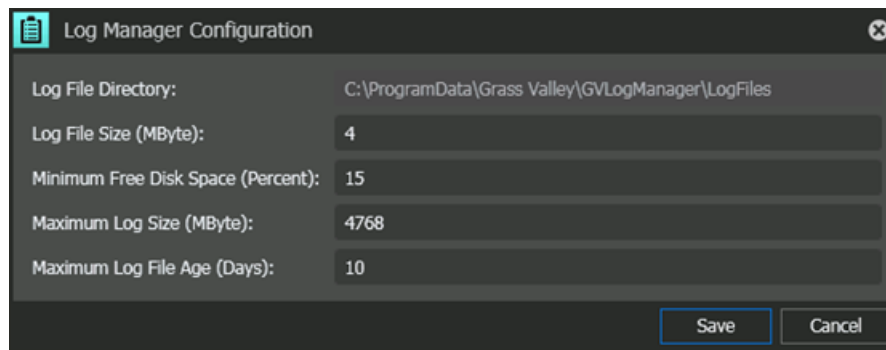
- Log File Size
- Minimum Free Disc Space
- Maximum Log Size
- Maximum Log File Age

- Select a system in the Log Manager panel.



- Right-click on the system and select **Properties**.

The Log Manager Configuration dialog appears.



- Enter the Log File Size.
- Enter the minimum percentage of Free Disk Space to be assigned.
- Enter the Maximum Log Size.
- Enter the number of days for the Maximum Log File Age.
- Click **Save**.

GV Log Manager updates according to the new configuration.

Exporting log messages

- The selected system to export your log messages from must be in Online mode.

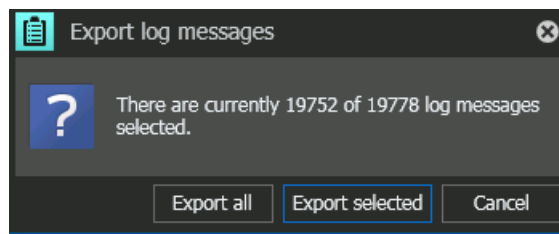
1. Select log messages that you want to export in the Message List.

You can use Delivery Filters or column header filter to minimize the number of log messages displayed.

To select multiple log messages, hold the **Shift** key down and select all between two selected messages; or hold the **Ctrl** key down and select messages randomly.

2. In the main menu, select **File | Export**.

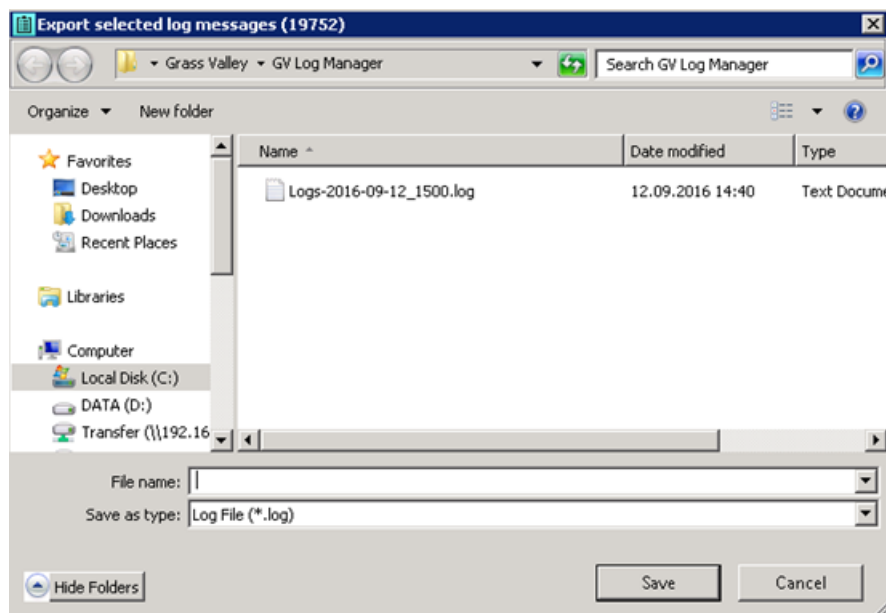
The Export log messages dialog displays.



3. Click **Export selected** to export log messages that you selected earlier.

You can also click **Export all** if you want to export all your log messages.

The Export log messages window appears.





4. Browse to the location that you want to export into and click **Save**.

Log messages are exported and saved in the *.log file format.

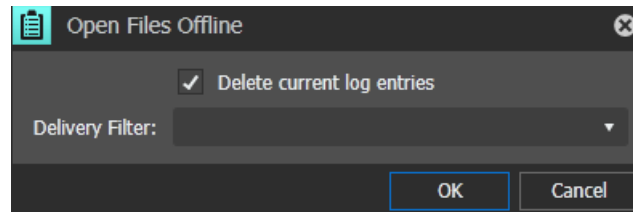
Importing log messages into GV Log Viewer

You can only import log messages in the Offline or Snapshot mode.

1. Do one of the following:

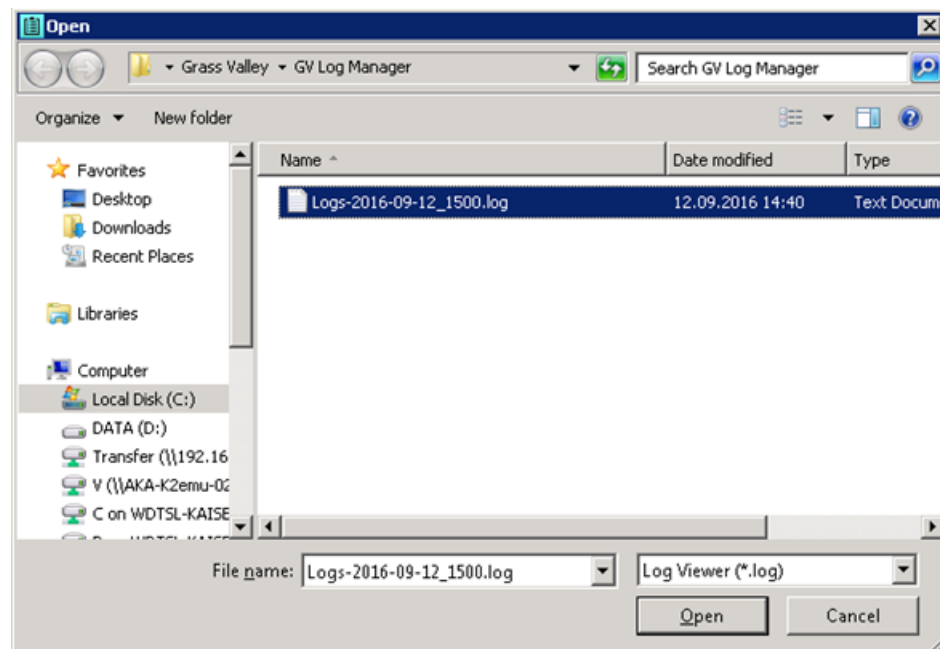
- In the Snapshot mode, click the **Open** button  or click **File | Open**.
- Click the **Offline** button  to change to Offline mode.

The Open Files Offline dialog displays.



2. Deselect the **Delete current log entries** check box if you still need your current log messages.
3. Select a Delivery Filter from the drop-down list, if desired.
4. Click **OK**.

The Open window displays.



5. Browse and select the log file that you want to import and click **Open**.

The log file is imported and log messages from the file are displayed in the Message List.

Working with K2Config

Topics in this section provide instructions for using the K2Config application.

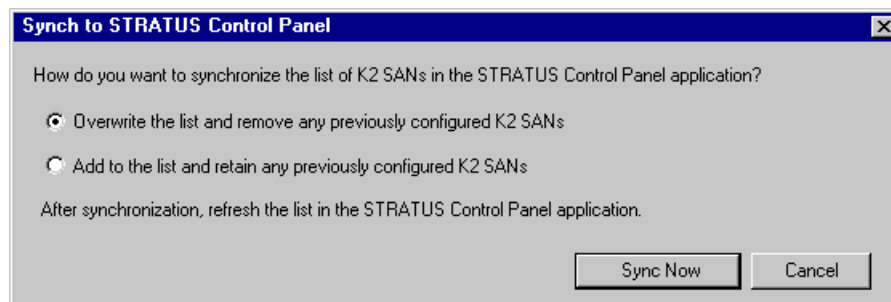
Synchronizing K2Config information to GV STRATUS Control Panel

The K2Config application writes its configuration file to the GV STRATUS server that hosts the Control Panel Service. Typically this is the GV STRATUS Core server. If the Control Panel Service is running, the K2Config application automatically does this whenever you change K2 SAN information. In most cases, this automatic operation should be sufficient. For example, when you add or remove a K2 SAN, the K2Config application adds or removes that K2 SAN in the configuration file that is on the Control Panel Service host. If the configuration file does not already exist on the Control Panel Service host, the file is created. If the file already exists, the K2 SAN is added or removed in the configuration file, but any information in the configuration file about other K2 SANs is not removed or modified.

However, if a situation arises in which you want to purge the information in the configuration file or otherwise control the rules for writing the K2Config information to the Control Panel Service host, you can do so as explained in this topic.

1. Make sure the GV STRATUS Core server is running.
2. Open the K2Config application.
3. In the K2Config application click **STRATUS | Network Configuration** and verify that the machine that hosts the Control Panel Service is correctly configured. Typically this is the GV STRATUS Core server.
4. Click **STRATUS | Sync to Control Panel**.

The Synch to STRATUS Control Panel dialog box opens.



5. Select the synchronization option as follows:
 - Overwrite the list... — This overwrites the K2Config configuration file currently on the Control Panel Service host. Any K2 SAN information currently in the file is lost and replaced by the K2 SAN information currently in K2Config. Take care when selecting this option, especially if you previously configured a K2 SAN from a different instance of K2Config. This practice is not recommended, but if you are doing this, you could lose the information from that other K2Config instance.
 - Add to the list... — This is the same action that K2Config does automatically when you add a K2 SAN. The SAN's information is written to the configuration file on the Control Panel Service host, replacing any information for that same K2 SAN that is already in the configuration file. By selecting this option, you are triggering the same operation that would take place if you removed a K2 SAN from K2Config and then added the SAN back to K2Config.

6. Click **Sync Now** to write the K2 SAN information to the K2Config file on the Control Panel Service host.
7. Close the K2Config application.
8. Open the GV STRATUS Control Panel application and click **Core | K2 Storage | K2 SAN Storage**. K2 SAN Storage settings open.
9. Click **Refresh**.

The Control Panel application reads the information from its local K2Config file and updates the list of K2 SANs.

Related Topics

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

[About the Control Panel Service host and applications](#) on page 365

Working with GV STRATUS servers

Use the procedures in this section when doing configuration or service work on a GV STRATUS server that is part of a GV STRATUS system.

Backup and Recovery Strategies

When you receive a GV STRATUS server from the factory, the machine has a generic image on the E: drive. The generic image is not specific to the individual machine. It is generic for all machines of that type. Some servers also have a system-specific image on the E: drive.

You receive a recovery CD with your server. This recovery CD does not contain a disk image. Rather, the recovery CD is bootable and contains the Acronis True Image software necessary to create and restore a disk image.

After your server is installed, configured, and running in your system environment, you should create new recovery disk images for the machine to capture settings changed from default. These “first birthday” images are the baseline recovery image for the machine in its life in your facility. You should likewise create new recovery disk images after completing any process that changes system software or data, such as a software upgrade. In this way you retain the ability to restore to a recent “last known good” state.

For the highest degree of safety, you should create a set of disk image recovery CDs, in addition to storing disk images on the E: partition. Since system drives are RAID protected, in most failure cases the disk images on the E: partition will still be accessible. But in the unlikely even of a catastrophic failure whereby you lose the entire RAID protected system drive, you can use your disk image recovery CDs to restore the system.

For image restore procedures, refer to related topics in this Topic Library.

GV STRATUS server partitions

GV STRATUS server types have partitions as follows:

GV STRATUS Express server

This server has four RAID 5 drives and two RAID 1 Solid State Drives. The D: partition is on the Solid State Drives.

Drive letter	Size	Purpose
C	80 GB	System drive
D	approximately 100 GB (92.62 GB with Solid State Drives)	SQL
E	20 GB	Storage for recovery disk image files
F	All remaining space	Proxy storage

GV STRATUS Core server: Dell

This server has four RAID 5 drives and two RAID 1 Solid State Drives. The D: partition is on the Solid State Drives.

Drive letter	Size	Purpose
C	80 GB	System drive
D	approximately 100 GB (92.62 GB with Solid State Drives)	SQL
E	20 GB	Storage for recovery disk image files

GV STRATUS Core server: Fault Tolerant (FT)

The C: and E: partitions are on the first physical drive in the CPU/IO module.

Drive letter	Size	Purpose
C	116 GB	System drive
D	All space on remaining drives.	SQL
E	20 GB	Storage for recovery disk image files

Proxy server, Proxy Storage file system server

This server has two RAID 1 drives.

Drive letter	Size	Purpose
C	75 GB (default size of disk image)	System drive
D	120 GB	SNFS
E	82 GB	Storage for recovery disk image files

Render Engine, Workflow Server

This server has four RAID 5 drives.

Drive letter	Size	Purpose
C	50 GB (default size of disk image)	System drive. Also SNFS on EDIUS XRE Server.
D	All space on remaining drives. Over 1 TB.	Render Engine: SNFS
E	20 GB	Storage for recovery disk image files

Related Topics

[GV STRATUS system and server variants](#) on page 174

[GV STRATUS server](#) on page 181

[GV STRATUS server partitions](#) on page 453

Creating a recovery disk image for storing on E: Dell R610

Do the following at the local server to create a disk image of the C: partition and the D: partition and store the image file on the E: partition:

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. If you have not already done so, connect keyboard, monitor, and mouse.
3. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.
If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.
The system boots from the Recovery CD.
The Acronis program loads.
4. At the startup screen, select **True Image Server OEM (Full Version)**.
The Acronis main window appears.
5. In the Acronis main window, click **Backup**.
The Create Backup Wizard opens.
6. On the Welcome page, click **Next**.
7. On the Partitions Selection page, do the following:
 - a) Select the **(C:)** and the **(D:)** partitions and then click **Next**.
8. On the Backup Archive Location page, do the following:
 - a) In the tree view select the **Backup (E:)** partition and enter the name of the image file you are creating.
Create the file name using the machine hostname and the date. Name the file with the .tib extension.
For example, if the hostname is MySystem1, in the File name field you enter
`E:\MySystem1_20121027.tib`.
 - b) Click **Next**.

9. On the Backup Options page, do not change any settings. Click **Next**.
10. On the Archive Comment page, if desired, enter image comments such as the date, time, and software versions contained in the image you are creating. Click **Next**.
11. On the "...ready to proceed..." page, do the following:
 - a) Verify that you are creating images from the C: and D: partitions and writing to the E: partition, then click **Proceed**.
12. On the Operation Progress page, observe the progress report.
13. When a message appears indicating a successful backup, click **OK**.
14. Click **Operations | Exit** to exit the Acronis True Image program.

The machine restarts automatically.
15. Remove the recovery media while the machine is shutting down.

Creating a recovery disk image for storing on E: Dell R620

Do the following at the local server to create a disk image of the C: partition and the D: partition and store the image file on the E: partition:

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Connect all motherboard NICs to LAN connections.
3. If you have not already done so, connect keyboard, monitor, and mouse.
4. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.
The Acronis program loads.
5. On the Acronis Rescue Media page, select **Acronis Backup and Recovery 11.5 (64-bit...)**

The Acronis Backup and Recovery page opens.
6. On the Acronis Backup and Recovery page, select **Back up now**.

The Back up now page opens.
7. On the Back up now page, under What to back up, select **Item to back up**.

The Select item to back up dialog box opens.
8. On the Select item to back up dialog box, do the following:
 - a) Under Disk 1 select **C** and **D**. Clear other check boxes.
 - b) Click **OK**.

The Select item to back up dialog box closes.
9. On the Back up now page, under Where to back up, select **Location**.

The Select location back up dialog box opens.

10. On the Select location back up dialog box, do the following:
 - a) Expand the tree-view **Local folders** node and select **E:**.
 - b) Enter a name for your backup.
 - c) Click **OK**.The Select location back up dialog box closes.
11. On the Back up now page, under How to back up, do the following:
 - a) Set Backup type to **Full**.
 - b) This is recommended for your first backup. For subsequent backups, you can optionally set this to Incremental or Differential.
 - c) Set Validation to **Validate a backup as soon as it is created**.
12. On the Back up now page, click **OK**.

The backup begins and the Backup Details page opens.
13. On the Backup Details page, select the **Progress** tab to view the progress.
14. Verify when the data is successfully backed up.
15. Close all Acronis pages and the Acronis main window.

The machine restarts automatically.
16. Remove the recovery media while the machine is shutting down.

The backup consists of a directory and multiple files. Keep all files and directories intact. Do not delete or separate.

Restoring a GV STRATUS server

This section is only for restoring a GV STRATUS server to the same server type as when it shipped new from Grass Valley. Changing a server from one type to the other (for example, from a Express server to a Proxy server or vice versa) is not supported.

Use the procedures below as follows to restore a GV STRATUS server:

- Restore from the system-specific image that shipped with the server. This is the recommended process. Find related topics in this Topic Library.
- Restore from a generic image, then do subsequent tasks to build the server according to its type and intended use in the GV STRATUS system. Only do this if the system-specific image is not available. If you do this, use the appropriate task list below. Find related topics in this Topic Library, unless otherwise directed.

Restoring a GV STRATUS Express server

1. Make hardware connections as follows:
 - a) Connect keyboard, monitor, and mouse.
 - b) Connect the image LAN cable to the first motherboard port (left most).
 - c) Connect 3 LAN cables to the last three motherboard ports.
 - d) Connect both AC power cords.
 - e) Connect an Acronis bootable USB stick to one of the front USB ports.

2. Restore from the generic image.

This includes the following:

- a) Restore disk image.
- b) Do Windows setup.

Enter the Administrator password and the server's computer name.

3. Verify server partitions and configure if necessary.
4. Create proxy partition.
5. Restore network and system configuration.
This includes the following:
 - a) Name adapters.
 - b) Reorder adapters.
 - c) Set power management settings.
 - d) Configure static IP address.
6. Install SQL.
7. Install SiteConfig Discovery Agent.
8. Do any Windows High Priority updates that are not already installed.
9. Install GV STRATUS software.
10. On proxy share security settings make sure the local "Everyone" has read permission.
11. Add the internal system account, which by default is GVAdmin, to the local Administrators group and on proxy share security settings give that account full permissions.

Related Topics

[*GV STRATUS server partitions*](#) on page 453

Restoring a GV STRATUS Core server on a Dell platform

1. Make hardware connections as follows:
 - a) Connect keyboard, monitor, and mouse.
 - b) Connect the image LAN cable to the first motherboard port (left most).
 - c) Connect 3 LAN cables to the last three motherboard ports.
 - d) Connect both AC power cords.
 - e) Connect an Acronis bootable USB stick to one of the front USB ports.
2. Restore from the generic image.
This includes the following:
 - a) Restore disk image.
 - b) Do Windows setup.

Enter the Administrator password and the server's computer name.
3. Verify server partitions and configure if necessary.

4. Restore network and system configuration.
This includes the following:
 - a) Name adapters.
 - b) Reorder adapters.
 - c) Set power management settings.
 - d) Configure static IP address.
5. Install SQL.
6. Install SiteConfig Discovery Agent.
7. Do any Windows High Priority updates that are not already installed.

Related Topics

[GV STRATUS server partitions](#) on page 453

Restoring a GV STRATUS Core Server on a FT Server platform from a generic image

This is the master task that applies to both Type I and Type II FT Server models. As instructed by the steps in this task, use the appropriate Acronis sub-task specified for the Type I or Type II model.

1. Disconnect network cables.
2. Disconnect power cabling from bottom CPU/IO module.
3. In top CPU/IO module, leave drive 0 in slot, remove all other drives.
4. Provide AC power to top CPU/IO module.
5. Provide access to the disk image file to which you are restoring. For example, connect an external drive containing the image.
6. Startup and in BIOS setup disable OS Boot Monitoring.
Refer to related topics in this Topic Library.
7. Using the Acronis recovery disk image process as appropriate for the FT Server Type I or Type II model, restore the generic disk image to the top CPU/IO module using Acronis.

The process to boot into Acronis takes several minutes.

The restore process takes approximately two hours.

Refer to related topics in this Topic Library.

8. Restart and log in to Windows as Administrator.
9. When prompted, enter Windows operating system product key and activate later.
10. Restart as prompted.
11. Complete items as prompted by the sysprep process, including the following:
 - Time zone
 - Server name
 - Deselect **Automatic Updates**
 - Select **Don't show again at startup**

The server restarts.

12. If Server Manager opens, select **Don't show again at startup**.
13. In the top CPU/IO module, insert all drives.

14. In the bottom CPU/IO module, insert all drives.
15. Connect power cabling and start up bottom CPU/IO module.
16. Perform dual disk configuration as follows:
 - a) In the RDR Utility, create the first Virtual disk.
 - b) When prompted to reboot, click **No**.
 - c) Manually reboot the system.Refer to related topics in this Topic Library.
17. Perform system disk dual configuration as follows:
 - a) Right-click on Slot 0 of PCI Module 11 and select **Add Physical Disk To RDR Virtual Disk**.
Refer to related topics in this Topic Library.
18. Set resync priority as follows:
 - a) Set Virtual Disk 0 to high priority In the Logical disk section, highlight **RDR Virtual Disk**, right-click and select **Set Resync Priority**, set to **High** and click **OK**.
Disk 0 in each chassis blinks rapidly until the initialization is done.
Refer to related topics in this Topic Library.
19. Repeat steps to create Virtual Disks and map to physical disks.
20. Wait until Disk 0 completes the build process.
That takes approximately 3 hours.
21. Use Windows utilities and build a Dynamic disk with all other disks, except for drive 0, using the striped mode rather than the span mode.
Refer to related topics in this Topic Library.
22. Set duplex LAN configuration to team the left NICS in each server and the right NICS in each server.
Refer to related topics in this Topic Library.
23. Name teams `Control Team` and `FTP Team`.
Refer to related topics in this Topic Library.
24. Reorder network adapters so the Control Team is first and the FTP Team is second.
Refer to related topics in this Topic Library.
25. Restart and in BIOS setup enable OS Boot Monitoring.
Refer to related topics in this Topic Library.
26. Turn off the FT server firewall
Refer to related topics in this Topic Library.
27. Remove the GVAdmin account from the Deny log on locally list.
Refer to related topics in this Topic Library.
28. Install SiteConfig Discovery Agent.
Refer to related topics in this Topic Library.

29. Install SQL.

Before installing SQL, make sure that you copy the correct *StratusSQLConfigurationFile.ini* file onto the system so that the database is installed on the D:\ partition.

Refer to related topics in this Topic Library.

30. Activate the Windows operating system.

Refer to related topics in this Topic Library.

31. Do any Windows High Priority updates that are not already installed.

32. Install GV STRATUS software.

33. If the FT server has a proxy share, on proxy share security settings make sure the local "Everyone" has read permission.

34. If the FT server has a proxy share, add the internal system account, which by default is GVAdmin, to the local Administrators group and on proxy share security settings give that account full permissions.

Related Topics

[Setting OS Boot Monitoring in BIOS](#) on page 1359

[Acronis 8162: Restoring from the generic recovery disk image Type I](#) on page 1354

[Acronis 11.5: Restoring from the generic recovery disk image Type II](#) on page 1356

[System disk dual configuration procedure](#) on page 1319

[Set resync priority](#) on page 1331

[Build dynamic disk](#) on page 1331

[Set duplex LAN configuration](#) on page 1332

[Name teams](#) on page 1337

[Reorder adapters](#)

[Turn off FT server firewall](#) on page 1359

[Remove GVAdmin account from Deny log on locally list](#) on page 1361

[Installing SQL](#) on page 472

[Installing the Discovery Agent on a GV STRATUS server](#) on page 473

[Activating the Windows operating system](#) on page 474

Restoring a proxy or engine server

This task applies to the following types of GV STRATUS servers:

- Proxy server variant, such as Proxy server, Proxy Storage file system server.
- Engine server variant Render Engine, Workflow Server.

1. Make hardware connections as follows:

- a) Connect keyboard, monitor, and mouse.
- b) Connect the image LAN cable to the first motherboard port (left most).
- c) Connect 3 LAN cables to the last three motherboard ports.
- d) Connect both AC power cords.
- e) Connect an Acronis bootable USB stick to one of the front USB ports.

2. Restore from the generic image.

This includes the following:

- a) Restore disk image.
- b) Install Fibre Channel card driver.
- c) Do Windows setup.

Enter the Administrator password and the server's computer name.

3. Verify server partitions and configure if necessary.

4. Restore network and system configuration.

This includes the following:

- a) Name adapters.
- b) Reorder adapters.
- c) Set power management settings.
- d) Configure static IP address.

5. Install SiteConfig Discovery Agent.

6. Do any Windows High Priority updates that are not already installed.

7. On Proxy server and Proxy Storage file system server, on proxy share security settings make sure the local "Everyone" has read permission.

8. On Proxy server and Proxy Storage file system server, add the internal system account, which by default is GVAdmin, to the local Administrators group and on proxy share security settings give that account full permissions.

Related Topics

[*GV STRATUS server partitions*](#) on page 453

Restoring from a system-specific recovery disk image on E: Dell R610

Use this task to restore a server using an image made from that particular server. If restoring from a generic factory default image, use the appropriate task.

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. If you have not already done so, connect keyboard, monitor, and mouse.
3. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

4. At the startup screen, select **True Image Server OEM (Full Version)**.

The Acronis main window appears.

5. In the Acronis main window, click **Recovery**.

The Restore Data Wizard opens.

6. On the Welcome page, click **Next**.
7. On the Backup Archive Selection page, in the tree view expand the node for the E: partition and select the image file, then click **Next**.
8. On the Restoration Type Selection page, select **Restore disks or partitions** and then click **Next**.
9. On the Partition or Disk to Restore page, select **(C:)** and then click **Next**.
10. On the Restored Partition Location page, select **(C:)** and then click **Next**.
11. On the Restored Partition Type page, leave the selection at **Active** and then click **Next**.
12. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual C: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
13. On the Next Selection page, depending on the partitions you are restoring, do one of the following:
 - If you are restoring only the C: partition, select **No, I do not** and then click **Next**.
Skip ahead to the "...ready to proceed..." page in step 20.
 - If you are also restoring the D: partition, select **Yes, I want to restore another partition or hard disk drive** and then click **Next**.
Continue with the next step in this procedure.
14. On the Partition or Disk to Restore page, select **(D:)** and then click **Next**.
15. On the Restored Partition Location page, select **(D:)** and then click **Next**.
opens.
16. On the Restored Partition Type page, leave the selection at **Primary** and then click **Next**.
17. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual D: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
18. On the Next Selection page, select **No, I do not** and then click **Next**.
19. On the Restoration Options page, do not make any selections. Click **Next**.
20. On the "...ready to proceed..." page, verify that you are restoring the correct image to the correct location. Click **Proceed**.
21. On the Operation Progress page, observe the progress report.
22. When a message appears indicating a successful recovery, click **OK**.
23. Click **Operations | Exit** to exit the Acronis True Image program.
The machine restarts automatically.
24. Remove the recovery media while the machine is shutting down.

Restoring from a system-specific recovery disk image on E: Dell R620

Use this task to restore a server using an image made from that particular server. If restoring from a generic factory default image, do not use this task.

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Connect all motherboard NICs to LAN connections.
3. If you have not already done so, connect keyboard, monitor, and mouse.
4. Do the following:

- a) Insert the Recovery CD.
- b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

5. On the Acronis Rescue Media page, select **Acronis Backup and Recovery 11.5 (64-bit...)**

The Acronis Backup and Recovery page opens.

6. On the Acronis Backup and Recovery page, select **Recover**.

The Recover Data page opens

7. On the Recover Data page, under What to Recover page, select **Select Data**.

The Data to Recover Selection dialog box opens.

8. On the Data to Recover Selection dialog box, do the following:

- a) Select **Browse**.
- b) In the tree view, expand the **Local Folders** node.
- c) Select the **E** drive.

Even though your backup is on the E drive, it is not yet visible.

- d) Click **OK**.

On the Archive View tab, your backup name is listed.

9. On the Archive View tab, select your backup.

10. Under Backup contents, do the following:

- a) Select **C:** and **D:**.
- b) Click **OK**.

The Data to Recover Selection dialog box closes.

11. On the Recover data page, under Where to recover, verify the following:

Recover to:	Physical machine
	Clear all
Recover 'NTFS (C:)' to...	Properties....Size:.....Letter: C
	Clear Disk 1/NTFS (C:)
Recover 'NTFS (D:)' to...	Properties....Size:.....Letter: D
	Clear Disk 1/NTFS (D:)

12. On the Recover Data page, click **OK**.
The restore process begins.
13. On the My Recovery Details page, select the **Progress** tab to view the progress.
The image loads in approximately 9 minutes.
14. When the data is successfully restored, click **OK**.
15. Close all Acronis pages and the Acronis main window.
The machine restarts automatically.
16. Remove the recovery media while the machine is shutting down.

Restoring from the generic recovery disk image on E: Dell R610

There can be multiple versions of the generic recovery disk image on the server's E: partition. Refer to related topics in the server product's release notes to determine which version you should use.

This procedure can be used on a server that needs to be restored to its factory default state. For example, if you neglected to make a first birthday image, you might need to use this procedure. If the image from which you are restoring was made from the specific machine, refer to the appropriate procedure.

NOTE: *This procedure restores the server (both C: and D: partitions) to its factory default condition. Passwords and other site-specific configurations are reset to factory defaults.*

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Connect all motherboard NICs to LAN connections.
3. If the server has a 10 Gig connection, make sure it is connected to the 10 Gig connection on the Ethernet switch.
If not connected to a switch, 10 Gig network adapter detection and ordering are unpredictable on the restored image.
4. If you have not already done so, connect keyboard, monitor, and mouse.

5. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.
6. At the startup screen, select **True Image Server OEM (Full Version)**.

The Acronis main window appears.
7. In the Acronis main window, click **Recovery**.

The Restore Data Wizard opens.
8. On the Welcome page, click **Next**.
9. On the Backup Archive Selection page, in the tree view expand the node for the E: partition and select the image file, then click **Next**.
10. On the Restoration Type Selection page, select **Restore disks or partitions** and then click **Next**.
11. On the Partition or Disk to Restore page, select **(C:)** and then click **Next**.
12. On the Restored Partition Location page, select **(C:)** and then click **Next**.
13. On the Restored Partition Type page, leave the selection at **Active** and then click **Next**.
14. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual C: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
15. On the Next Selection page, select **Yes, I want to restore another partition or hard disk drive** and then click **Next**.
16. On the Partition or Disk to Restore page, select **(D:)** and then click **Next**.
17. On the Restored Partition Location page, select **(D:)** and then click **Next**.

opens.
18. On the Restored Partition Type page, leave the selection at **Primary** and then click **Next**.
19. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual D: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
20. On the Next Selection page, select **No, I do not** and then click **Next**.
21. On the Restoration Options page, do not make any selections. Click **Next**.
22. On the "...ready to proceed..." page, verify that you are restoring the correct image to the correct location. Click **Proceed**.
23. On the Operation Progress page, observe the progress report.
24. When a message appears indicating a successful recovery, click **OK**.
25. Click **Operations | Exit** to exit the Acronis True Image program.

The machine restarts automatically.
26. Remove the recovery media while the machine is shutting down.

27. When prompted, enter the machine name.

Make sure the name is identical to the name it previously had.

At first start up after reimage, the system is in Embedded Security Update mode by default.

Restoring from the generic recovery disk image on E: Dell R620

This task restores a server to its factory default state. For example, if you neglected to make a first birthday image, you might need to use this procedure. If the image from which you are restoring was made from the same, specific machine to which it is being restored, do not use this task.

NOTE: This procedure restores the server (C:, D:, and E: partitions) to its factory default condition. Passwords and other site-specific configurations are reset to factory defaults.

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Connect all motherboard NICs to LAN connections.
3. If you have not already done so, connect keyboard, monitor, and mouse.
4. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

5. On the Acronis Rescue Media page, select **Acronis Backup and Recovery 11.5 (64-bit...)**

The Acronis Backup and Recovery page opens.

6. On the Acronis Backup and Recovery page, select **Recover**.

The Recover Data page opens

7. On the Recover Data page, under What to Recover page, select **Select Data**.

The Data to Recover Selection dialog box opens.

8. On the Data to Recover Selection dialog box, do the following:

- a) Select **Browse**.
- b) In the tree view, select the USB drive that contains the generic recovery disk image.
Even though your backup is on the drive, it is not yet visible.
- c) Click **OK**.

On the Archive View tab, your backup name is listed.

9. On the Archive View tab, select your backup.

10. Under Backup contents, do the following:

- a) Select **MBR**.
- b) Select **C:**, **D:**, and **E:**.
- c) Click **OK**.

The Data to Recover Selection dialog box closes.

11. On the Recover data page, under Where to recover, select the correct destination partition for each source partition as follows:
 - a) Select **Recover Disk 1 MBR**.
The MBR Destination dialog box opens.
 - b) In the MBR Destination dialog box, select **Disk 1: Dell PERC ...**, as appropriate for the particular Dell platform. The following are valid selections:
 - Disk 1: Dell PERC H710 SCSI
 - Disk 1 : Dell PERC H310 SCSI
 - c) Click **OK**.
 - d) Select **Recover NTFS (C:)**.
The Volume Selection dialog box opens.
 - e) In the Volume Selection dialog box, select **C**.
 - f) Click **OK**.
 - g) Select **Recover NTFS (D:)**.
The Volume Selection dialog box opens.
 - h) In the Volume Selection dialog box, select **D**.
 - i) Click **OK**.
 - j) Select **Recover NTFS (E:)**.
The Volume Selection dialog box opens.
 - k) In the Volume Selection dialog box, select **E**.
 - l) Click **OK**.
12. On the Recover Data page, click **OK**.
The restore process begins.
13. On the My Recovery Details page, select the **Progress** tab to view the progress.
The image loads in approximately 9 minutes.
14. When the data is successfully restored, click **OK**.
15. Close all Acronis pages and the Acronis main window.
The machine restarts automatically.
16. Remove the recovery media while the machine is shutting down.
17. When prompted, enter the machine name.
Make sure the name is identical to the name it previously had.
After start up, one or more device discovery windows can open. Allow processes to complete without interference.
At first start up after reimage, the system is in Embedded Security Update mode by default.

Creating the proxy partition on a GV STRATUS Express server

- The Core Services server must be freshly re-imaged and must not have a proxy partition

- The Core Services server must be intended for use as an Express server in the GV STRATUS system

The recommended method is to restore the Express Server using the system specific image that shipped on the server. When you do so, the proxy partition is also restored. However, if for some reason you must create the proxy partition manually, use this procedure.

1. Log into the server as Administrator.
2. On the Windows desktop, next to the **Start** menu, click on the **Server Manager** Icon.
Server Manager opens.
3. In the Server Manager tree select **Storage | Disk Management**.
4. Right-click on **CD-ROM 0** and select **Change Drive Letter and Paths**.
5. Select the F: drive letter and click the **Change** button.
6. In the **Assign the following drive letter** drop-down list select **G**.
7. Click **OK**.
8. Click **Yes**.
9. Right-click on Disk 0's **Unallocated disk space** and select **New Simple Volume**.
The New Simple Volume wizard opens.
10. On the wizard's first page, click **Next**.
11. On the Specify Volume Size page, select the maximum size (should be the default) and click **Next**.
12. On the Assign Drive Letter page, select **F** and click **Next**.
13. On the Format Partition page, select **Format this Volume with the following Settings** and make settings as follows:

Option	Setting
File System	NTFS
Allocation Unit Size	Default
Volume Label	Proxy
Check	Perform a quick format

NOTE: Do not check "Enable file and folder compression"

14. Click **Next**.
15. Click **Finish**.
The wizard closes.
16. Verify that the partition has been created.

Restoring network configuration

When you restore a system from its system specific image, network configuration is also restored to the factory default settings. This is the recommended method of restoring network configuration. However, if for some other reason you must configure network settings manually, use the tasks in this section to restore the default network configuration.

Name adapters

1. If not already open, open Network Connections as follows:
 - a) Open the Windows **Network and Sharing Center** control panel.
 - b) Click **Change Adapter Settings**.
Network Connections opens.
2. In Network Connections, click **View | Details**.
3. For GV STRATUS servers without an FTP/Streaming connection (Proxy, Proxy Storage file system), verify adapter names.

The required adapter names are specified in the following table:

Adapter name
Control Connection
Unused Connection 0
Unused Connection 1
Unused Connection 2

4. For GV STRATUS servers with an FTP/Streaming connection but no media (iSCSI) connection, (Express, Core), verify adapter names.

The required adapter names are specified in the following table:

Adapter names
Control Connection
FTP-Streaming Connection
Unused Connection 1
Unused Connection 2

5. For GV STRATUS servers with an FTP/Streaming connection and with one or two media (iSCSI) connections, (Render Engine), verify adapter names

The required adapter names are specified in the following table:

Adapter names
Control Connection
FTP-Streaming Connection
Media Connection #1
Media Connection #2

6. Proceed as follows:
 - If all the names on this system are configured correctly to locations, skip the rest of this procedure.
 - If names on this system are not configured correctly, for each adapter name incorrectly configured, complete the remaining steps of this procedure.
7. Select the name in the Name column.
8. Select **File | Rename** to enter rename mode.
9. Type the name required.

Next, reorder adapters.

Reorder adapters

- Adapters must be named correctly
 - The control team must be created
 - The team and loopback must be named
1. If not already open, open Network Connections as follows:
 - a) Open the Windows **Network and Sharing Center** control panel.
 - b) Click **Change Adapter Settings**.

Network Connections opens.
 2. Select **Advanced**, then **Advanced Settings...**
 3. For GV STRATUS servers without an FTP/Streaming connection (Proxy, Proxy Storage file system), on the **Adapters and Bindings** tab, order adapters as follows:

Control Connection

Unused Connection 0

Unused Connection 1

Unused Connection 2

4. For GV STRATUS servers with an FTP/Streaming connection but no media (iSCSI) connection, (Express, Core), on the **Adapters and Bindings** tab, order adapters as follows:

Control Connection

FTP-Streaming Connection

Unused Connection 1

Unused Connection 2

5. For GV STRATUS servers with an FTP/Streaming connection and with one or two media (iSCSI) connections, (Render Engine), on the **Adapters and Bindings** tab, order adapters as follows:

Control Connection

Media Connection #1

Media Connection #2

FTP-Streaming Connection

6. Click **OK** to close and accept the changes.
7. Close Network Connections.

If continuing with network configuration, next set power management settings.

Set power management settings

1. If not already open, open Network Connections as follows:
 - a) Open the Windows **Network and Sharing Center** control panel.
 - b) Click **Change Adapter Settings**.Network Connections opens.
2. Right-click one of the adapters and select **Properties**.
The Properties dialog box opens.
3. Click **Configure**.
4. On the **Power Management** tab, uncheck all checkboxes, if they are not already unchecked.
5. Click **OK**.
6. If a "...lose connectivity..." message opens, click **Yes**.
7. Repeat these steps on the remaining network connection in the Network Connections window.

Configure static IP address on Server 2008

This task required on systems with Microsoft Windows Server 2008 operating system only.

SiteConfig cannot discover systems with the Microsoft Windows Server 2008 operating system that have no IP address, such as those that are configured for DHCP. Therefore you must configure the system with a static IP address. You can use any IP address.

Installing SQL

- SQL must be one of the required system requirements on the server, according to the server's intended use in the GV STRATUS system.
- The GV STRATUS server must be freshly re-imaged and SQL must not yet be installed

The recommended method of restoring SQL is to restore the GV STRATUS server using the system specific image that shipped on the server. When you do so, SQL is also restored to its factory default installation. However, if for some reason you must install SQL manually, use this procedure. SQL is required on GV STRATUS servers with the role of GV STRATUS Database.

If the server should have SQL, install it as follows:

1. Log into the server as Administrator.

2. Run the following batch file.

```
C:\Grass Valley\InstallSQL.bat
```

A console opens.

3. Wait until the console closes. This indicates the install is complete.
This is a quiet install, so there is no incremental progress indicator.
4. License SQL-Server as follows:
 - a) From the Windows desktop, click **Start | All Programs | Microsoft SQL Server 2008 R2 | Configuration Tools | SQL Server Installation Center (64 bit)**.
SQL Server Installation Center opens.
 - b) Select **Maintenance | Edition Upgrade**.
 - c) Follow the wizard, clicking **OK** and **Next**.
 - d) When you arrive at the Product Key page, select **Enter the product key**, type in the product key, and select **I accept the license terms**.
 - e) Finish the wizard, clicking **Next** and **Upgrade**.

Installing the Discovery Agent on a GV STRATUS server

If the device that you plan to manage with SiteConfig does not have a SiteConfig Discovery agent installed, use this topic to verify and, if necessary, manually install SiteConfig support software. Doing so allows SiteConfig to discover and manage the device. If the device has any version of the SiteConfig Discovery Agent currently installed, you should use SiteConfig to upgrade the Discovery Agent, rather than installing it manually.

This task applies to any variant of a GV STRATUS server, such as Express, Core, Proxy, Engine, etc.

1. On the device you plan to manage with SiteConfig, open the Windows Services Control Panel and look for the following required item:
 - ProductFrame Discovery Agent
2. Proceed as follows:
 - If you find the required items, no further steps are necessary. SiteConfig support software is installed.
 - If a required item is not present, navigate to your SiteConfig files. If you do not already have these files in convenient location, you can find them on the PC that hosts SiteConfig, in the SiteConfig install location. Then continue with next steps as appropriate.
3. To launch the program that installs the ProductFrame Discovery Agent Service do the following:
 - a) Copy the *Discovery Agent Setup* directory to the device.
 - b) In the directory, double-click the *DiscoveryAgentServiceSetup.msi* file.
The setup program launches to install the SiteConfig Discovery Agent.
 - c) Follow the setup wizard.
4. When presented with a list of device types, select one of the following as appropriate:
 - StratusCoreServicesServer

5. Complete the setup wizard and restart the device.
The restart is required after the installation.

Activating the Windows operating system

If a system is restored to its factory default state or otherwise has the Windows operating system re-applied, you might need to activate the operating system. This procedure provides instructions for doing this while the machine is connected to the Internet. The Activation wizard provides other options, which you can also choose if desired.

To activate the Windows operating system, do the following:

1. Make sure the machine is connected to the Internet.
2. From the Windows desktop, in the system tray double-click on the key symbol icon. The Activate window opens.
3. Select **Yes, let's activate Windows over the Internet now** and click **Next**.
4. When prompted, "If you want to register with Microsoft right now.", select **No**.
5. Wait for the connection. If the system times out, you are prompted for entering information in the Internet Protocol Connection dialog. Enter the proxy address and port number as appropriate for your facility's connections.
6. Ensure that "You have successfully activated your copy of Windows" message appears in Activate Windows.
7. Click **OK** to close the Activate Windows.

Renaming a GV STRATUS Core/Express server

This topic is for renaming a GV STRATUS server that has the role of GV STRATUS Core Services. The following GV STRATUS servers have the role of GV STRATUS Core Services:

- GV STRATUS Express server
- GV STRATUS Core server

Please contact Grass Valley Support before attempting to rename a GV STRATUS Core/Express server.

Extensive system configuration is required to achieve a working GV STRATUS system. If you only change the display name, it does not change the Core/Express server host name.

Any name change must include updates to SiteConfig, K2 Config, GV STRATUS Control Panel Services Host, GV STRATUS Database, licensing settings, MDI settings, Proxy settings, Engines settings, network domain change, and interfaces with other applications.

Configuring a Router

You can use Jupiter, Encore, or SMS7000 router in your operation.

You need to configure your router on the Router Configuration panel in the GV STRATUS Control Panel application.

When connecting to a Jupiter router, use the ESswitch interface protocol. If you are connecting a Jupiter router using a serial hub, you need to configure a virtual COM port and install the software before configuring the router.

You can also use Jupiter with the AccuSwitch application that can be configured in the GV STRATUS Control Panel application.

Encore system can be configured to control cross points of a single routing matrix, or expanded to control multiple matrices depending on your system needs.

Configuring Virtual COM port (Jupiter only)

In order to connect to Jupiter router via ethernet, a serial hub needs to be configured.

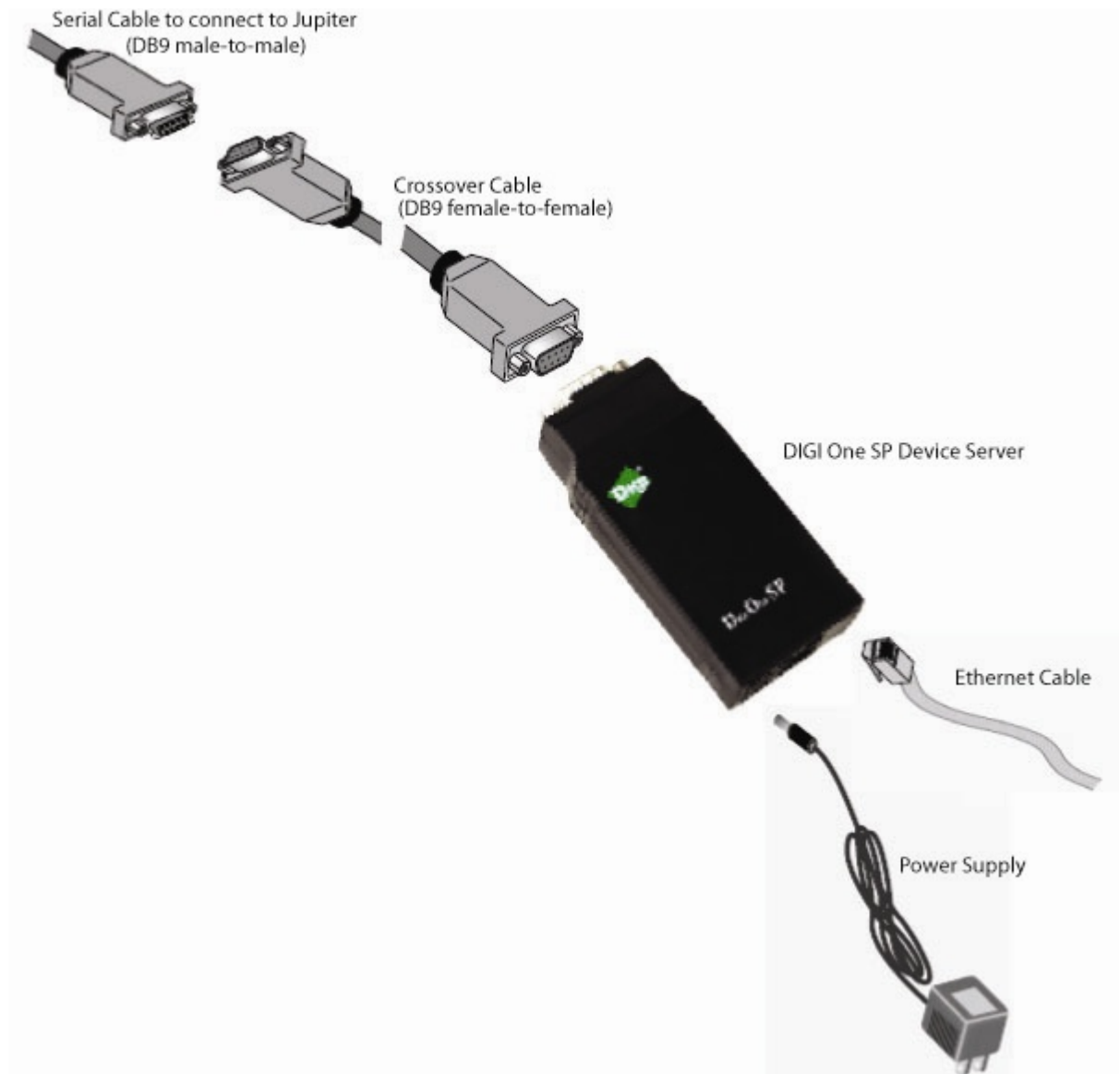
Before starting to configure the DIGI One SP RS422 Serial to Ethernet Device Server, write down the MAC address located at the bottom of the hardware.

This serial hub will act as a virtual COM port, which enables serial-to-ethernet connectivity as though Jupiter is communicating with GV STRATUS via the local COM port.

DIGI One SP Device Server		Jupiter Router	
Pin Name	Pin Number	Pin Number	Pin Name
Rx +	2	3	Tx +
Tx +	3	7	Rx +
Rx -	6	8	Tx -
Tx -	9	2	Rx -

1. A serial crossover cable (also known as null-modem cable) is needed to allow proper communications between Jupiter router and DIGI One SP Device Server. The appropriate pinouts can be referred from the table above.

2. Connect one end of the crossover cable to the device server and the other end to RS422 serial cable to connect to Jupiter.



3. Connect an ethernet cable from the device server to a network point on your LAN.
4. Connect the power supply to the device server.

Related Topics

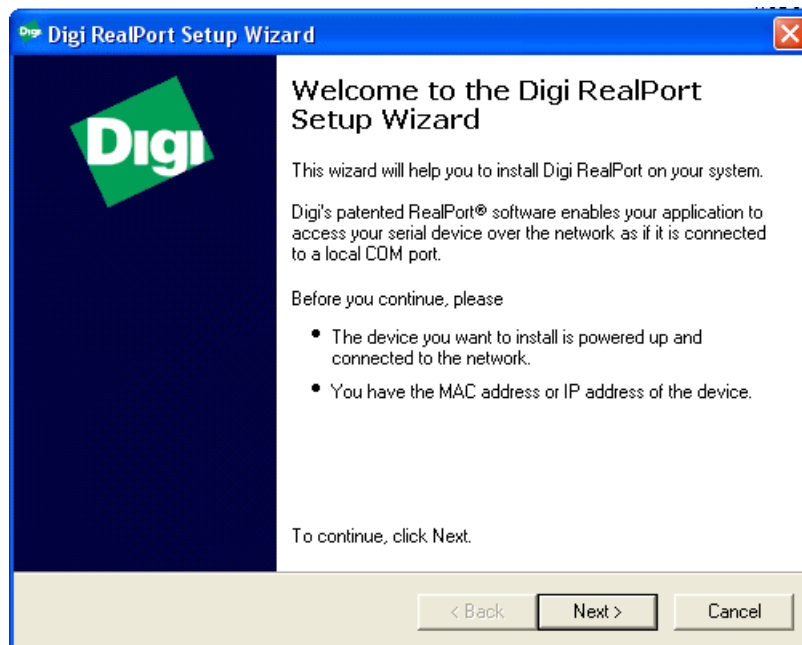
[Installing Virtual COM port software \(Jupiter only\)](#) on page 476

Installing Virtual COM port software (Jupiter only)

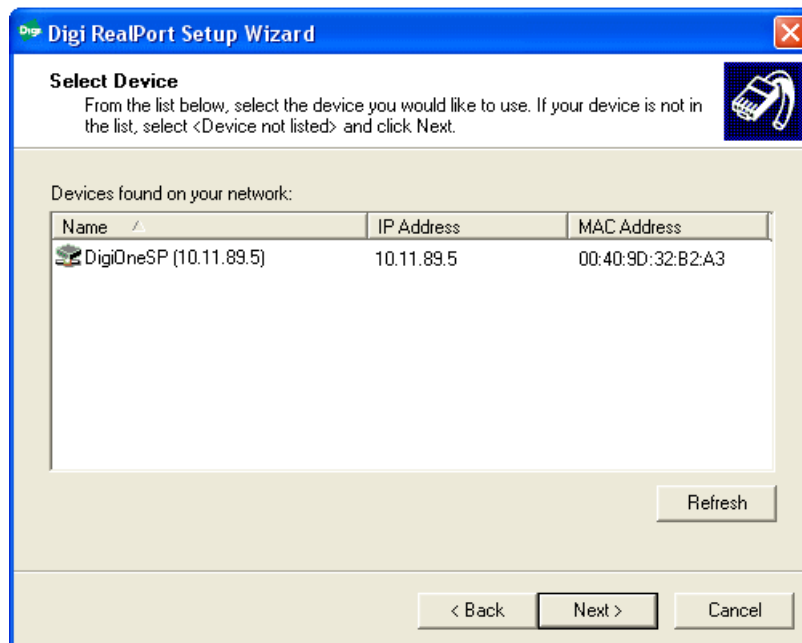
After the virtual COM port has been configured, you need to install the software.

1. Insert the DIGI CD in your CD ROM drive.

- The setup wizard will automatically be displayed on your screen.
If not, navigate to the CD ROM drive and double-click **setup.exe**.



- Click **Next** and the setup wizard will search your network to locate the DIGI One SP device server.



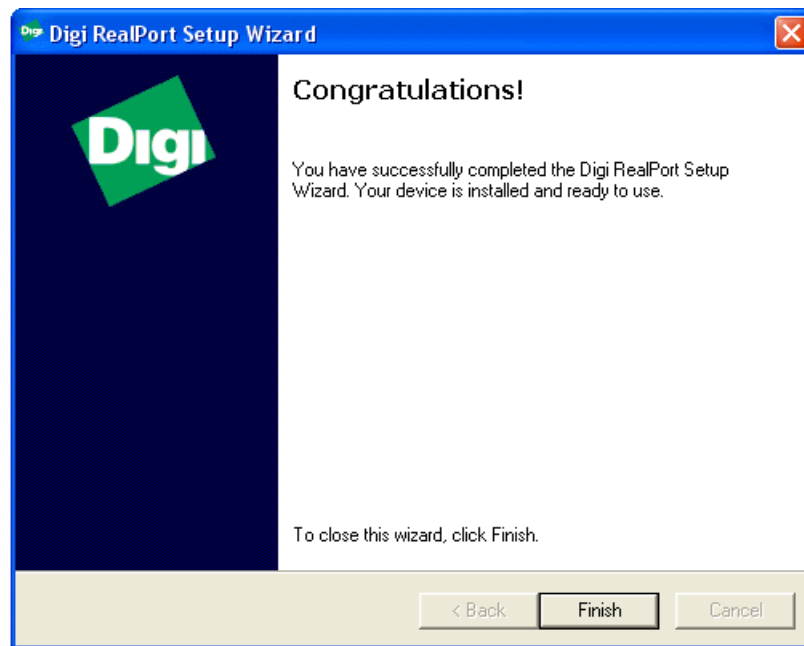
- Select the device server according to its specific MAC address.

5. Take note of the device IP address and click **Next**.

The screenshot shows the 'Digi RealPort Setup Wizard' window, specifically the 'Describe the Device' step. The window has a blue title bar with the Digi logo and the text 'Digi RealPort Setup Wizard'. Below the title bar, the text 'Describe the Device' is followed by the instruction 'Enter information for the device you would like to use.' and a small icon of a modem. The main area is divided into three sections: 'Network Settings', 'COM Port Settings', and 'Device Features'. In the 'Network Settings' section, the 'Device Model Name' is 'DigiOneSP'. Under 'Network Settings', the 'IP' radio button is selected, and the IP address '10 . 11 . 89 . 5' is entered. The 'Default Network Profile' is 'TCP: Typical Settings' and the 'RealPort TCP' is '771'. In the 'COM Port Settings' section, 'No. Ports' is '1' and 'Starting COM' is 'COM5'. There is a checkbox for 'Skip Modem PnP' which is unchecked. In the 'Device Features' section, there are checkboxes for 'Encryption' and 'Authentication', both of which are unchecked. At the bottom right of the main area are buttons for 'Install Options...' and 'Help'. At the bottom of the window are three buttons: '< Back', 'Finish', and 'Cancel'.

6. In the Network Settings section, select **IP** and enter the IP address that had been retrieved by the setup wizard.
7. In the COM Port Settings section, set the number of ports to 1 and select the appropriate COM port from the Starting COM drop down list. This will be your virtual COM port.

8. Click **Finish**.



The setup wizard will install the software.

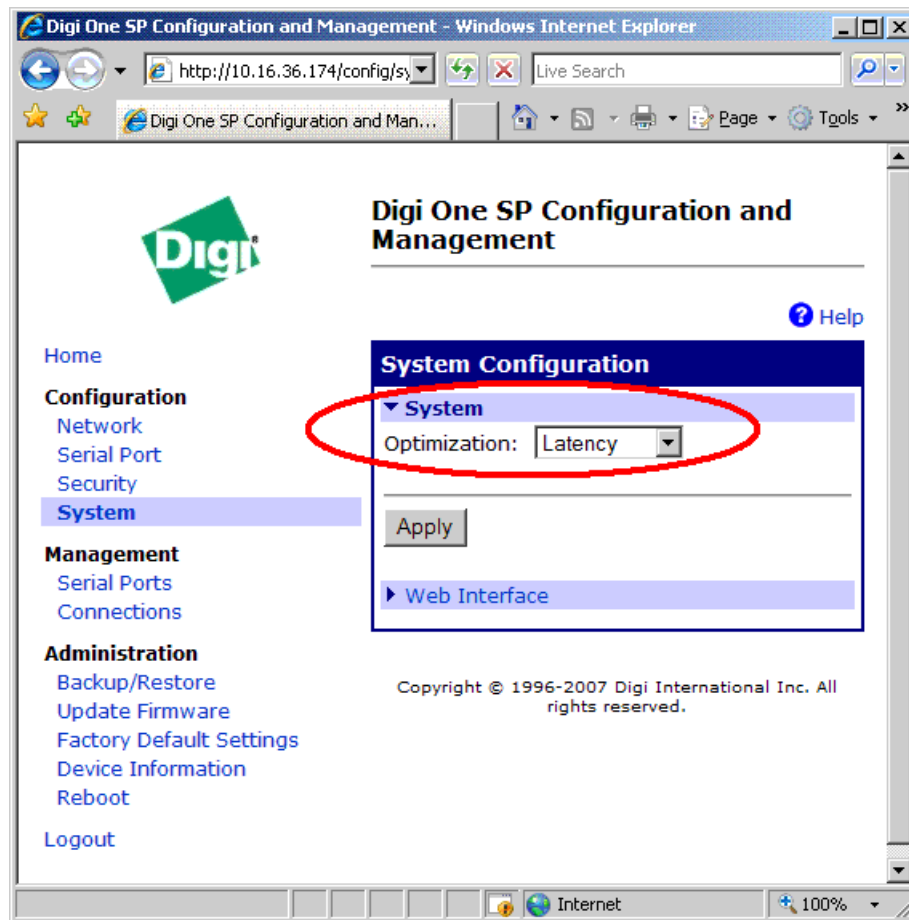
9. Click **Finish** after the installation is done.

NOTE: *Once you have configured the virtual COM port, you need to enter the COM port number in the router configuration panel of the GV STRATUS Control Panel.*

10. To avoid unnecessary timeouts on RS422 communication, you need to set the Digi One SP optimization routine to Latency.

This can be done by launching the configuration page on your web browser. If needed, the default username/password for the Digi One configuration page is root/dbps.

11. Then, go to the System Configuration page and select Latency from the Optimization dropdown list.



Related Topics

[Configuring Virtual COM port \(Jupiter only\)](#) on page 475

Configuring Jupiter-AccuSwitch router control

- The Jupiter Control System CM 4000 with AccuSwitch application must be connected to the Jupiter File Server (Configuration PC) via an IP hub, switch, or media converter. Make sure you have the CM4000 MAC address prior to the configuration.
- The Jupiter Network Suite (JNS) Control Console software must be installed on the Configuration PC. Refer to Jupiter customer documentation for the compatible version of the control software.
- You must have administrator privileges in order to load Jupiter software, launch Jupiter applications, and configure the system.

The Jupiter Network Suite (JNS) Control Console software on the Configuration PC provides an interface to the Jupiter Control system CM 4000 through the LAN.

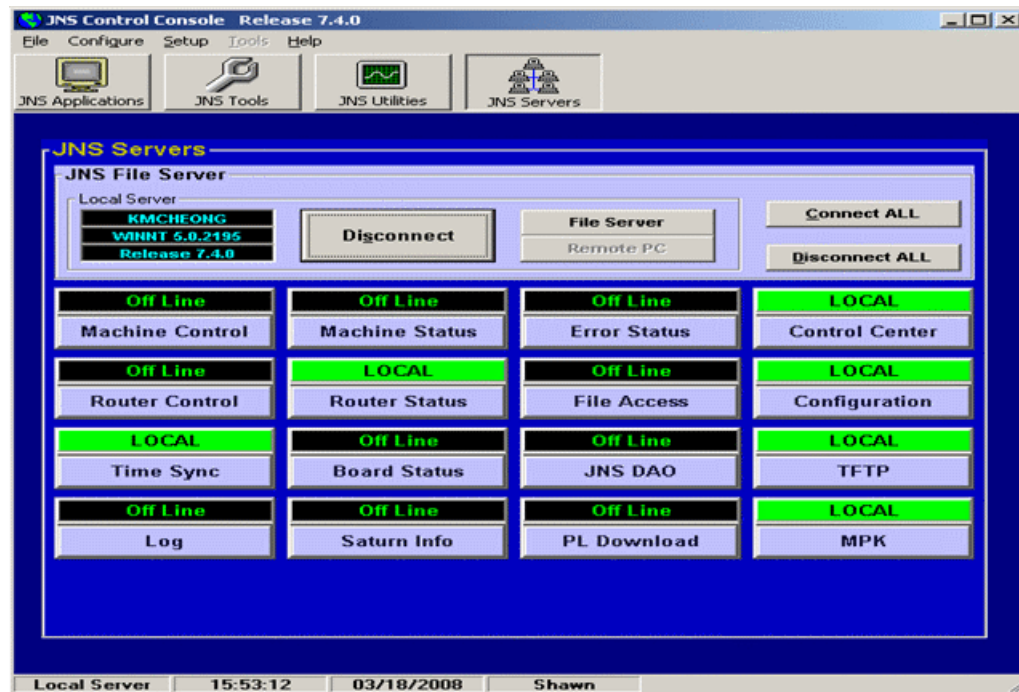
In this configuration, you need to ensure that the IP address of your GV STRATUS Core server is entered in the Network Description list on the Jupiter Configurator Panel.

1. Launch the Jupiter Network Suite (JNS) Control Console on the Configuration PC.
2. Click the **JNS Servers** button on the toolbar.

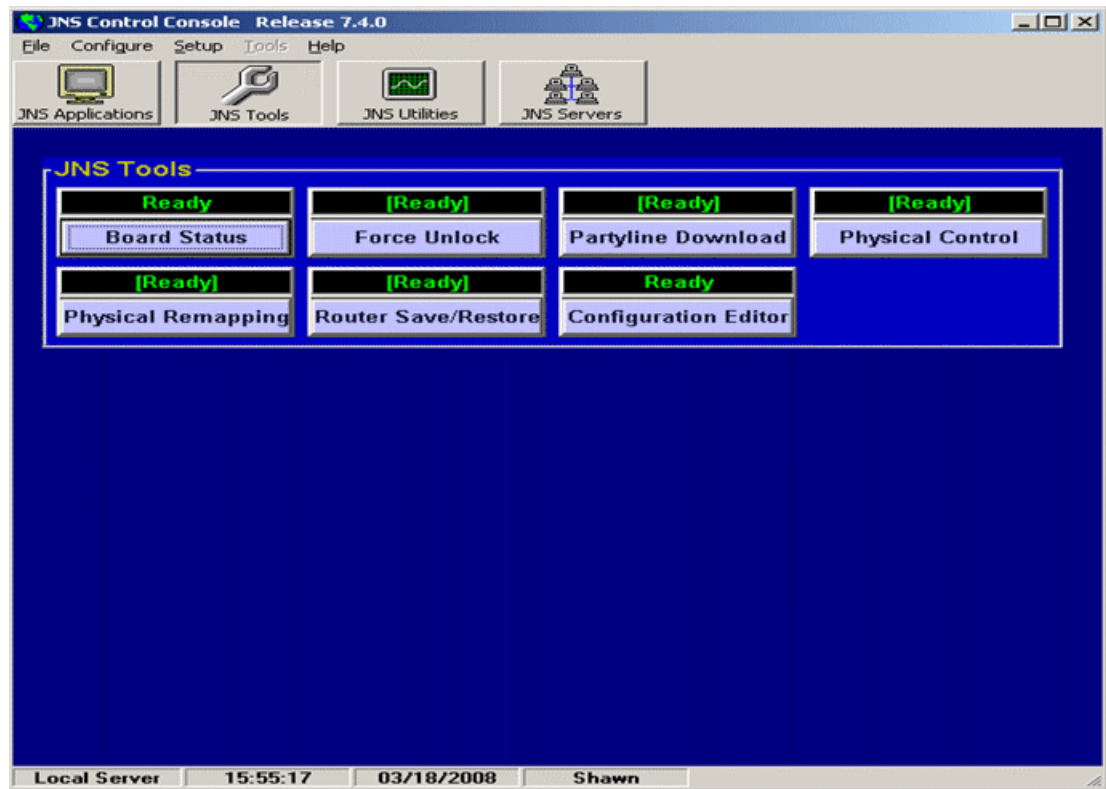
The **JNS File Server** appears in the JNS Servers panel.

3. Click the **Connect** button.

With a successful connection, appropriate programs run on the JNS File Server indicated by the **LOCAL** status.



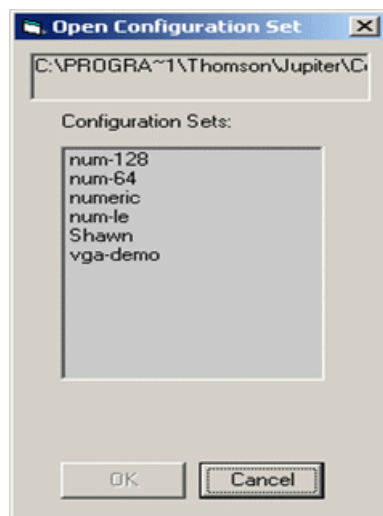
- Click the **JNS Tools** button on the toolbar and click **Configuration Editor**.



The Jupiter Configurator panel opens.

- Select **File | Open**.

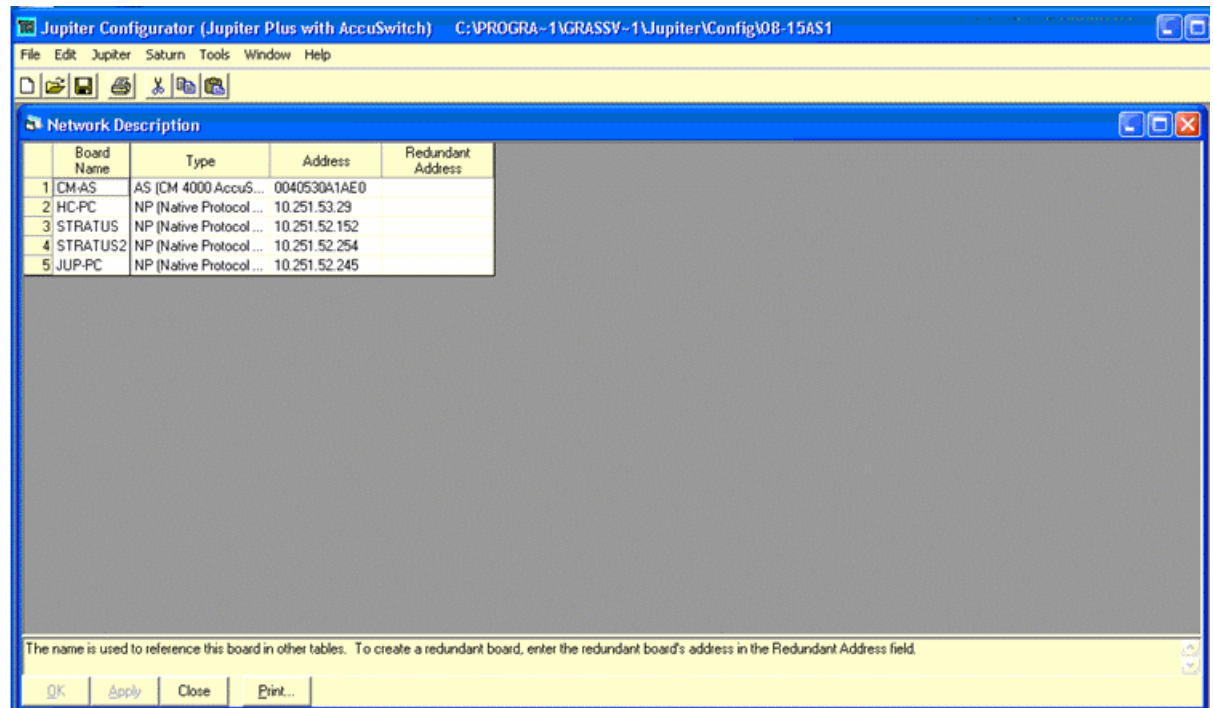
The Open Configuration Set dialog opens.



- Select your configuration set from the list and click **OK**.

7. Select **Jupiter I Network Description** on the Jupiter Configurator panel.

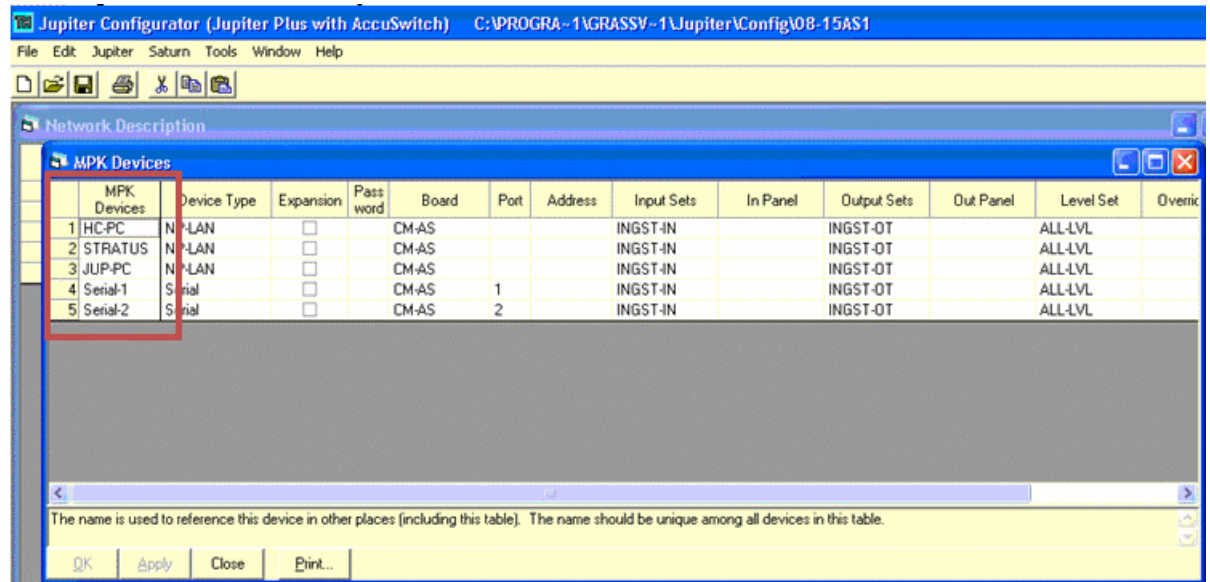
The Network Description panel opens.



- Check that the Jupiter CM4000 MAC address is correct.
- Add the GV STRATUS Core server name in the Network Description list.
- Set the Type as **NP (Native Protocol)**.
- Enter the IP address of the GV STRATUS Core server.

8. Select **Jupiter I MPK Devices** on the Jupiter Configurator panel.

The MPK Devices panel opens.



- a) Add the GV STRATUS Core server to the list of MPK devices.
 - b) Set the Device Type to **NP-LAN**.
 - c) Select the board name of your Jupiter Control System CM 4000.
 - d) Select the Input Sets, Output Sets, and Level Set for your operation.
9. After the configuration, you need to compile and download your configuration set into the Jupiter Control System CM 4000.

Refer to the *CM 4000 Control Module Installation and Operating Manual* for more information regarding the compile and download processes.

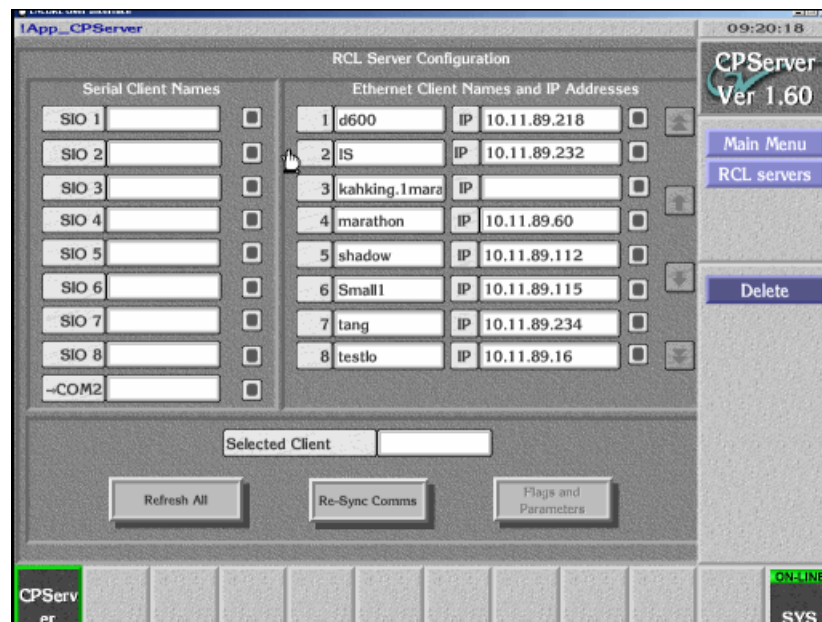
Configuring Encore

Encore system can be configured to control crosspoints of a single routing matrix, or expanded to control multiple matrices depending on your system needs.

You also need to ensure that the IP address of your GV STRATUS Core Services Server is entered in the RCL Server configuration of the Encore router control system.

1. Log on to Encore OUI, select App_CPServer and RCL Servers.

- On the Ethernet Client Names and IP Addresses section of the RCL Server Configuration window, enter the machine name and IP address of your GV STRATUS Core Services Server.



- Log out from Encore OUI.
- In the GV STRATUS Control Panel application, launch the router configuration panel to configure the Encore router connection.
- If needed, you can customize the level setting on the **Connection** tab. Select the appropriate level from the drop-down list for video, audio and timecode.
Select 0 (zero) for the video level if video is the first level in your router control system, 1 if it is the second level and so on.
- Click **Save** to save changes.

Related Topics

[Router Connection settings](#) on page 331

[Router Sources settings](#) on page 333

[Characters not allowed in router source and destination IDs](#) on page 485

Characters not allowed in router source and destination IDs

Position	Character	Description
Anywhere in name	%	percent
	&	ampersand
	'	apostrophe
At beginning of name		space
At the end of name		space

NOTE: Please refrain from using space and other non-alphanumeric characters in your source and destination IDs, whenever possible.

Setting up GV STRATUS in ENPS

The GV STRATUS application needs to be installed on ENPS client machines in order to use the GV STRATUS ActiveX within ENPS.

To set up GV STRATUS as ActiveX device in ENPS, you need to modify your ENPS configuration.

1. On the ENPS server, find the *enps.ini* file and add the following to the **[ENPS]** section:

```
QTMediaExtensions=.mov, .mp4
```

2. On an ENPS client, log in as the administrator and start up ENPS.
3. From the ENPS folder, select **System Maintenance | MOS Configuration | New** and create a new MOS entry with these parameters:

ID	The MOS ID; this value is case sensitive and must match the MOS ID configured in the XMOS Server Options. The recommended format is <family>.<machine>.<location>.<enterprise>.mos. Standard practice is to use station call letters for location and station group abbreviation for enterprise.
Description	GV STRATUS
IP	The IP address or host name of the machine hosting the SDB Server and the XMOS Server.
ActiveX	GV.STRATUS.1
Default Settings	Leave blank. These settings are configured during installation.
Program	The group ID that had been configured in System Maintenance Groups .
MOS Version	2.6 or 2.8.2
Local DragDrop	Off
Auto Create	On
Story Send	On

4. From the ENPS folder, select **System Maintenance | Global Configuration Options**, add a new property named *AddMOSObjDuration* and set its value to 1.

NOTE: *AddMOSObjDuration* is the optional setting that allows the duration of clips to be automatically included in the rundown timing. If you prefer to manually enter the duration of your story and clips, do not activate this setting.

5. Add **mp4** to the *MOSBrowseMediaExtensions* property, as can be seen below:

```
MOSBrowseMediaExtensions=bmp, jpg, jpeg, mp4, 3gp, wmv, wav, sdp, ts
```

6. Restart the ENPS client application.

Set up RMI PC access to high-resolution assets

A GV STRATUS client PC on which you use the RMI tool must be one of the following types of GV STRATUS clients:

- Low-resolution (proxy) client PC with CIFS mount access to K2 storage.
- High-resolution client PC on K2 media (iSCSI) network, which requires the GV STRATUS high resolution license.

If you use a low-resolution (proxy) client PC, use Windows Explorer and mount the K2 media storage v: drive on the PC.

If you use a high-resolution client PC, use the following steps.

1. In GV STRATUS Control Panel, click **Core | Proxy Config | Proxy Access | Add**.
The Add Host Proxy Access dialog box opens.
2. For Hostname, select the name of the GV STRATUS client PC that you are setting to high-resolution.
3. For Access, select **Hi-Res**.
4. Click **OK** to save settings and close.

Related Topics

[RMI settings](#) on page 330

[Proxy Access settings](#) on page 293

[About GV STRATUS client PCs](#) on page 348

Configuring Rules

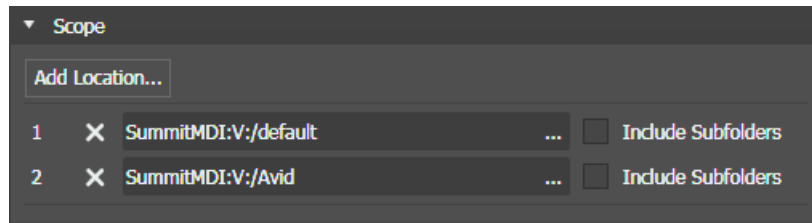
The topics in this section provide instructions for configuring GV STRATUS system rules.


Adding a delete rule

The GV STRATUS Rules Engine can watch a location and delete assets that match your criteria.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Delete**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

7. In **Scope** settings, specify the location or locations in which the rule operates.



- a) Click **Add location**.
The **Location Selection** dialog box opens.
- b) Navigate to and select the desired location.
You can select multiple locations in the **Location Selection** dialog box.
For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.
If desired, you can edit scope location path manually in the text box.
This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.
- c) Click **OK**.
The location is added to the **Scope** list.
- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.
When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.
- e) Repeat these steps to add additional locations as desired.
- f) To change a location in the list, click the **Browse** button .
- g) To remove a location from the list, click **X**.

8. In **Frequency** settings, specify how often the Rules Engine triggers the rule.

- a) Select one of the following options:

- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

9. In **Rule Options** settings, specify how the asset is deleted. Select one of the following options:
- **Delete Material in Scope Only:** Deletes the online material which is present under the selected scope only.
 - **Delete all Online Material:** Deletes online material only.
 - **Delete Entire Asset:** Deletes online material, archived material, and proxy.
10. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.

11. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

12. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

13. Click **Save**.

Next, enable the rule.

Related Topics

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

Adding an export rule

The GV STRATUS Rules Engine can watch a source location that is in the GV STRATUS system and export assets that match your criteria to a location that is external to the GV STRATUS system. An export rule can export clips, subclips, and playlists. For playlists, a conform job is automatically triggered to render the complex asset as a simple clip. The Rules Engine exports the assets to the destination that you configure. For an export rule, only K2 storage locations are available as the source scope. Other locations, such as FTP, are not available.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.

Rule Editor settings open.

4. In the **Rule Type** drop-down list select **Export**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

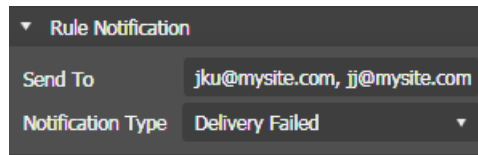
7. In **Rule Options** settings, specify the rule behavior.

The screenshot shows the 'Rule Options' configuration panel. It contains the following elements:

- A checkbox labeled 'Visible in STRATUS UI' which is checked.
- A dropdown menu showing 'Execute rule only once per asset or segment'.
- A dropdown menu showing 'Priority: Normal'.
- A dropdown menu showing 'Apply rule on growing file'.
- Four radio buttons for action type: 'Copy' (selected), 'Move', 'Rename', and 'Overwrite'.

- Select the **Visible in STRATUS UI** checkbox if you want to trigger the rule via context menu in the Asset List panel.
- Select whether the rule copies or moves the asset.
 - If you select **Move**, after the rule transfers the asset, it removes the source asset from the GV STRATUS system.
- Select whether the rule renames or overwrites the asset.
 - Rename**: The rule appends a suffix to the new asset file name. The existing asset is retained.
 - Overwrite**: The new asset overwrites the existing asset. The existing asset is deleted.
- Select when the rule is applied each asset.
 - Execute rule only once per asset**: The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - Execute every time rule conditions apply**: The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
- Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - Priority: High**: Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - Priority: Normal**: Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - Priority: Low**: Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- Select the condition when the rule is applied to each asset.
 - Apply rule on growing file**: The rule is applied to all files, including those that are still recording.
 - Apply rule on completed files**: The rule is only applied to files that have finished recording.

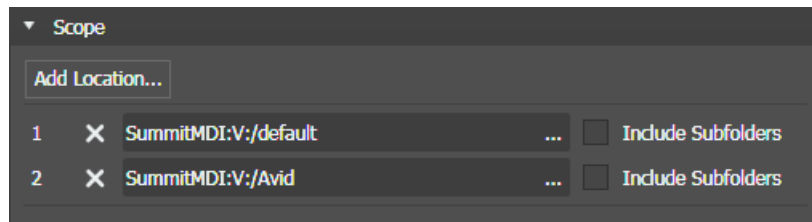
8. In **Rule Notification** settings, specify the notification behavior, if desired.



- a) Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- b) Select one or more notification types:
 - **Delivery Failed:** Emails are sent if the rule operation fails.
 - **Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

9. In **Scope** settings, specify the location or locations in which the rule operates.



- a) Click **Add location**.
The **Location Selection** dialog box opens.
- b) Navigate to and select the desired location.

You can select multiple locations in the **Location Selection** dialog box.

For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.

If desired, you can edit scope location path manually in the text box.

This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.
- c) Click **OK**.
The location is added to the **Scope** list.
- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.

When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.
- e) Repeat these steps to add additional locations as desired.
- f) To change a location in the list, click the **Browse** button
- g) To remove a location from the list, click **X**.

10. In **Export Filename Format** settings, set the convention for the name of the exported file.

- a) Select each filename option that you want to be a part of the exported file name.

The order in which you select filename options determines the order in which they appear in the file name.

- b) Make sure **Add Format Name** is selected if you intend to configure **Export Options** settings for multiple transcode formats.

Multiple transcode formats result in multiple files, so the format must be part of the name to avoid file overwrite. One transcode format results in one file only, so the format is not required as part of the file name.

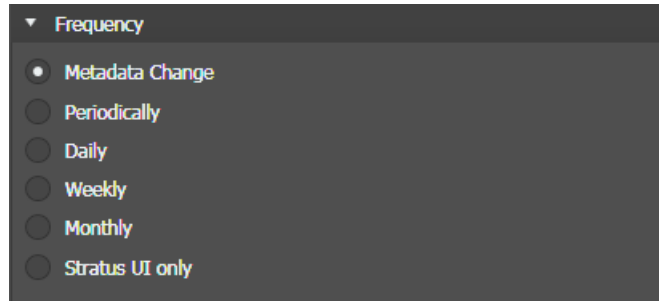
Asset Name is set by default, as the exported file or files must have a name.

11. In **Metadata Export** settings, set the custom metadata to be included with the export.

In the exported content, custom metadata values entered here replace any current values. So if you previously entered values for these same custom metadata fields elsewhere in the GV STRATUS system, those values are overwritten in the exported content by the values you enter here.

The custom metadata fields available are configured in **Core | Metadata | Custom Metadata**.

12. In **Frequency** settings, specify how often the Rules Engine triggers the rule.



a) Select one of the following options:

- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

13. In **Export Options** settings, configure the format of the exported files.

You can select either a **Native Format** or a **Transcode Format**, but not both.

a) For **Native Format**, select the interchange standard in which to export.

When a **Native Format** is selected, **Transcode Format** is automatically set to None and disabled.

b) For **Transcode Format**, configure as follows:

- Select **None**: The exported file is the same format as the source on the K2 storage system.
- Select one or more transcode formats as follows:
 - Select a single format for the transcoder.
 - To use multiple formats from a single transcoder, select the formats for that transcoder.

You cannot select multiple transcoders.

To select multiple transcode formats, first make sure that in **Export Filename Format** settings, **Add Format Name** is selected. If **Add Format Name** is not selected, only one transcode format is allowed.

When a **Transcode Format** is selected, **Native Format** is automatically set to None and disabled.

The **Transcode Format** list is populated by the transcode profiles that you create and place in the transcode profile directory.

You can also select **STRATUS Native Proxy Format** in the **Transcode Format** list so the existing proxy is exported without the need for transcoding.

c) For **Metadata Format**, select as follows to additionally export an XML metadata file:

- **None**: No additional XML metadata file is exported.
- **Final Cut Pro**: Metadata is exported to a Final Cut Pro project XML file. Set all other Export Options to None to export metadata only.
- **GV STRATUS Simple**: Metadata is exported to a GV STRATUS schema XML file.

These metadata format selections are XSL transforms of the STRATUS XML metadata. If you need a customized transform for your workflow, contact Grass Valley Support.

Set all other Export Options to None to export metadata only.

If you select a metadata format, the **Metadata-Destination Path** field is enabled.

d) For **Metadata-Destination Path**, configure as follows:

- If you are exporting the metadata file to the same destination as the asset file, leave this field blank. The file goes to the path configured in **Destination** settings.
- If you are exporting the metadata file to a different destination than the asset file, enter the metadata file's destination path. For an FTP path, use a `ftp://server/path` convention. For a UNC path, use a `\\server\share\path` convention.

e) If you entered a **Metadata-Destination Path**, configure **User Credentials** for that destination.

f) For **Thumbnails - Marker**, select as follows:

- **None**: The export does not contain thumbnails.
- **Quality - High**: High: The export contains a full-resolution JPG thumbnail with no compression (100%).
- **Quality - Medium**: The export contains a full-resolution JPG thumbnail compressed 85%.
- **Quality - Low**: Low: The export contains a half-resolution JPG thumbnail compressed 70%.

An export thumbnail is defined by a `tn` marker added to the source asset. Multiple thumbnails are exported when the source asset has multiple `tn` markers. Exported thumbnail files are automatically named according to asset names with the timecode extension `_hh-mm-ss-ff` so that each JPG file can be differentiated. If there is only one thumbnail marker exported with the asset, the JPG file has the same name as the asset.

g) For **Closed Caption Format**, select as follows:

- **None**: No additional Close Caption file is exported.
- **K2-SCC**: Workflow Engine extracts CEA-608 information stored in Ancillary data (CEA-708) from the asset on the K2 system and exports to a file in SCC format.
- **K2-TTML**: Workflow Engine extracts CEA-608 information stored in Ancillary data (CEA-708) from the asset on the K2 system and exports to a file in TTML format.

Only K2 system metadata extraction is recommended. It has much better performance than transcoder metadata extraction.

If you select a Closed Caption format, the **CC-Destination Path** field is enabled.

h) For **CC-Destination Path**, configure as follows:

- If you are exporting the Closed Caption file to the same destination as the asset file, leave this field blank. The file goes to the path configured in **Destination** settings.
- If you are exporting the Closed Caption file to a different destination than the asset file, enter the Closed Caption file's destination path. For an FTP path, use a `ftp://server/path` convention. For a UNC path, use a `\\server\share\path` convention.

i) If you entered a **CC-Destination Path**, configure **User Credentials** for that destination.

14. In **Destination** settings, define the destination location on which the rule operates.



For Export rules, the destination must be a location that is external to the GV STRATUS system and not managed by the GV STRATUS system. An external location is not visible in the GV STRATUS application Navigator panel.

You can set any destinations for exports as follows:

- **FTP path:** ftp://server/path
- **UNC path:** \\server\share\path
- **Brightcove path:** brightcove://<catalog name>
- **FASP path:** fasp://<Aspera server>/<directory name>
- **YouTube path:** youtube://<YouTube account>

If the destination is a network share accessible from the machine hosting the GV STRATUS Control Panel application, you can click the **Browse** button (...) to configure **Destination Path**.

The **Firewall friendly** checkbox is only visible if the selected **Native Format** is GXF or MXF, and FTP path is entered as the destination path. If the **Firewall friendly** checkbox is selected, asset transfer will be performed by the Data Mover engine. If not selected, asset transfer will be performed by K2 Summit.

15. Configure **User Credentials** as required.

If a UNC path destination, requirements for user credentials are as follows:

- If both the K2 system and the export location are on the same domain, you can use domain credentials.
- If the K2 system and the export location are on different domains and the domains have a trust relationship, you can use domain credentials.
- If the K2 system and the export location both have a local user with the same name and password, you can use the local user credentials.

Other UNC path user credentials are not supported.

16. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.

17. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

18. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

19. Click **Save**.

Next, enable the rule.

Related Topics

[Adding a Carbon Coder transcode profile](#) on page 535

[Adding a Vantage transcode profile](#) on page 535

[Adding an Elemental transcode profile](#) on page 536

[Adding a thumbnail marker](#) on page 534

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

[Adding a Carbon Coder transcode profile](#) on page 535

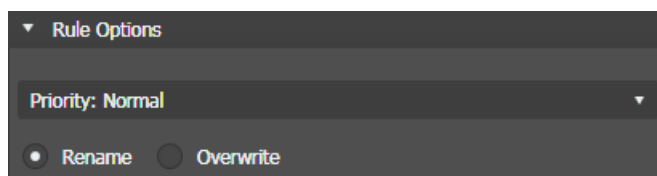
Adding an import rule

The GV STRATUS Rules Engine can watch a source location that is external to the GV STRATUS system and when files arrive, import the files that match your criteria to a location that is in the GV STRATUS system. An import rule can transcode, as well as import metadata, as part of the import. The imported asset has a metadata field that specifies the source location from which it was imported.

Any CIFS location can be used for importing media. If you want to use FTP, the same location must be exposed using the CIFS protocol. For example, you can install an FTP server pointing to the location which is already accessible via CIFS.

After the import operation, the Rules Engine changes the name of the original source file, adding a suffix that indicates success or failure. The Rules Engine periodically deletes files more than seven days old, as a housekeeping operation.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Import**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.
7. In **Rule Options** settings, specify the rule behavior.



- a) Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - **Priority: High:** Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - **Priority: Normal:** Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - **Priority: Low:** Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- b) If an asset of the same name already exists at the destination location, configure the rule behavior:
 - **Rename:** A suffix is appended to the imported asset name. The existing asset is retained.
 - **Overwrite:** The imported asset overwrites the existing asset. The existing asset is deleted. If the GV STRATUS system does not allow the existing asset to be deleted, the import fails. For example, if the asset has a subclip, the GV STRATUS system does not allow the existing asset to be deleted.

8. In **Rule Notification** settings, specify the notification behavior, if desired.

- a) Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- b) Select one or more notification types:
 - **Delivery Failed:** Emails are sent if the rule operation fails.
 - **Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

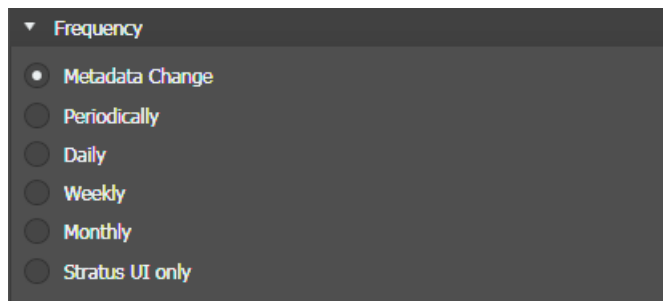
9. In **Scope** settings, specify the source location or locations the rule watches.

- a) Click **Add location**.
The **Location Selection** dialog box opens.
- b) Navigate to and select the desired CIFS location.
This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any new files that match the rule conditions and then operates on the files that match.
- c) Click **OK**
The location is added to the **Scope** list.
- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.
When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.
- e) Repeat these steps to add additional locations as desired.
- f) To change a location in the list, click the **Browse** button
- g) To remove a location from the list, click **X**.

Consider system load when configuring multiple import locations. An example guideline for a small GV STRATUS system, such as an Express system, is that you do not exceed ten import locations.

10. Configure **User Credentials** as required for the source locations.

11. In **Frequency** settings, specify how often the Rules Engine triggers the rule.



a) Select one of the following options:

- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

12. In **Import Options** settings, configure the format of the imported assets.

The screenshot shows the 'Import Options' panel with the following settings:

- Transcode Format:** None
- Metadata Format:** None
- Metadata Optional:** ☒
- Options:** Create new Asset

a) For **Transcode Format**, select as follows:

- **None:** Metadata only is imported. Media essence is not imported. If selected, a Metadata Format must be selected.
- **Native:** The files to be imported are in a format supported by the K2 and GV STRATUS system, such as GXF, MXF, MOV, MPG (PS), etc.
- **<format>:** As available for your transcode format, the file is transcoded to the selected format.

The list is populated by the transcode profiles that you create and place in the transcode profile directory. For import rules, the profile must be a format supported by the K2 and GV STRATUS system and the profile name must have the prefix `Import_`, such as `Import_HD_MXF-D10_NTSC_50.PCP`.

b) For **Metadata Format**, select as follows:

- **None:** No metadata is imported.
- **GV STRATUS Simple Import:** Metadata is imported from a GV STRATUS schema XML metadata file named the same as the media file. If custom metadata is included in the metadata file, those custom metadata fields must be configured in the GV STRATUS system. If the fields are not configured, the custom metadata is not imported.

If a metadata format is selected, the **Metadata Optional** setting is enabled.

c) If enabled, select **Metadata Optional** to specify the following behavior:

- If the media file and metadata file are present, the import operation begins immediately and imports the metadata.
- If the media file is present and the metadata file is not present, the import operation waits 30 seconds.
 - If the metadata file arrives within 30 seconds, the import operation begins and imports the metadata.
 - If the metadata file does not arrive within 30 seconds, the import operation begins and no metadata is imported.
- If the media file is not present and the metadata file is present, the Rules Engine waits 24 hours.
 - If the media file arrives within 24 hours, the import operation begins and imports the media and the metadata.
 - If the media file does not arrive within 24 hours, the Rules Engine renames the metadata file and ignores it for future import rule operations.

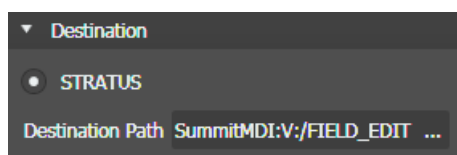
If **Metadata Optional** is not selected, the import operation fails if both media and metadata files are not present.

d) For **Options**, select as follows:

- **Create New Asset:** A GV STRATUS asset is created for the imported material. If metadata only is imported, a metadata-only asset is created.
- **Update Asset Metadata:** The imported metadata updates the metadata and essence of an existing asset.

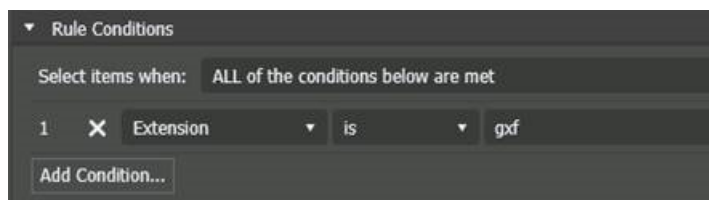
For more information about importing metadata, refer to related topics in this Topic Library.

13. In **Destination** settings, specify the destination of the assets on which the rule operates.



The destination must be a location in the GV STRATUS system. This is a location that is in the GV STRATUS application Navigator panel under the Locations node.

14. In **Rule Conditions** settings, specify the conditions the Rules Engine *File System Watcher* looks for to qualify the essence material to be imported into GV STRATUS as a new asset.



Considerations regarding **Rule Conditions** are as follows:

- **Supported native essence types:** GXF, MXF and MOV.
- **Other video/audio formats:** Transcoding is required for other video/audio formats to be imported into GV STRATUS. If needed, a third party transcoder (such as Harmonic, Telestream, Elemental) could be added to convert the source file first into a supported high-resolution format.
- **Update Asset Metadata:** To update metadata for an existing GV STRATUS asset, a GV STRATUS compliant XML format must be provided. Then, the **Rule Condition** must be set to search for files with “XML” extension to trigger the import rule.

15. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

16. Click **Save**.

Next, enable the rule.

Related Topics

[Adding a Carbon Coder transcode profile](#) on page 535

[Adding a Vantage transcode profile](#) on page 535

[Adding an Elemental transcode profile](#) on page 536

[Importing metadata to create or update assets](#) on page 537

Adding a transfer rule

The GV STRATUS Rules Engine can watch a source location that is in the GV STRATUS system and transfer assets that match your criteria to a destination location that is also in the GV STRATUS system. The Rules Engine transfers the assets to the destination that you configure. For playlists, a conform job is automatically triggered to render the complex asset as a simple clip at the destination.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Transfer**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

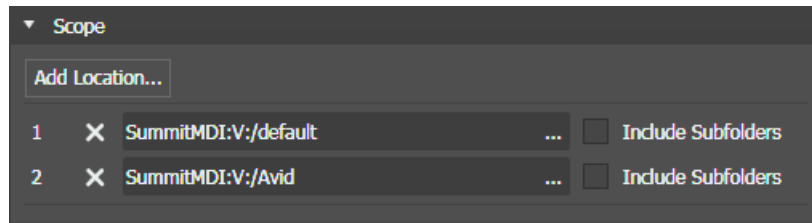
7. In **Rule Options** settings, specify the rule behavior.


The screenshot shows the 'Rule Options' configuration panel. It contains the following elements:

- A dropdown menu labeled 'Rule Options'.
- A checked checkbox labeled 'Visible in STRATUS UI'.
- A dropdown menu showing 'Execute rule only once per asset or segment'.
- A dropdown menu showing 'Priority: Normal'.
- A dropdown menu showing 'Apply rule on growing file'.
- Four radio buttons: 'Copy', 'Move', 'Rename', and 'Overwrite'.

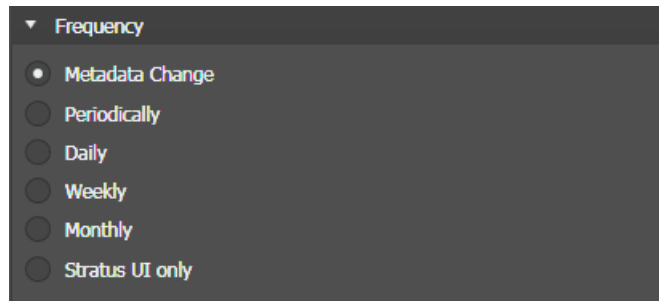
- Select the **Visible in STRATUS UI** checkbox if you want to trigger the rule via context menu in the Asset List panel.
- Select whether the rule copies or moves the asset.
 - If you select **Move**, after the rule transfers the asset, it removes the source asset from the GV STRATUS system.
- Select whether the rule renames or overwrites the asset.
 - Rename**: The rule appends a suffix to the new asset file name. The existing asset is retained.
 - Overwrite**: The new asset overwrites the existing asset. The existing asset is deleted.
- Select when the rule is applied each asset.
 - Execute rule only once per asset**: The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - Execute every time rule conditions apply**: The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
- Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - Priority: High**: Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - Priority: Normal**: Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - Priority: Low**: Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- Select the condition when the rule is applied to each asset.
 - Apply rule on growing file**: The rule is applied to all files, including those that are still recording.
 - Apply rule on completed files**: The rule is only applied to files that have finished recording.

8. In **Scope** settings, specify the location or locations in which the rule operates.



- a) Click **Add location**.
The **Location Selection** dialog box opens.
- b) Navigate to and select the desired location.
You can select multiple locations in the **Location Selection** dialog box.
For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.
If desired, you can edit scope location path manually in the text box.
This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.
- c) Click **OK**.
The location is added to the **Scope** list.
- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.
When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.
- e) Repeat these steps to add additional locations as desired.
- f) To change a location in the list, click the **Browse** button .
- g) To remove a location from the list, click **X**.

9. In **Frequency** settings, specify how often the Rules Engine triggers the rule.

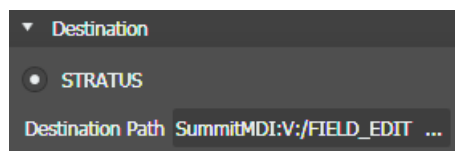


- a) Select one of the following options:


- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

10. In **Destination** settings, specify the destination of the assets on which the rule operates.



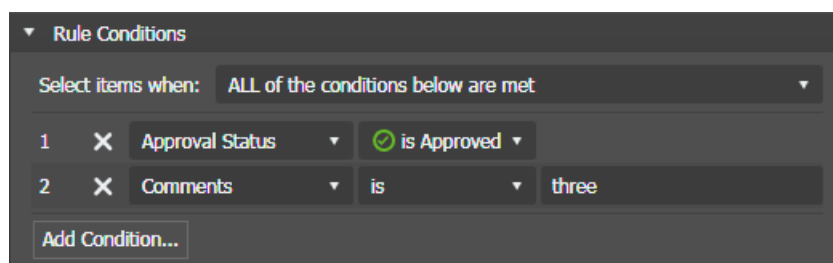
The destination must be a location in the GV STRATUS system. This is a location that is in the GV STRATUS application Navigator panel under the Locations node.

11. For Destination Path, click the **Browse** button .

The Select Destination Path dialog box opens.

12. Navigate to the desired location and click **OK**.

13. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.



14. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

15. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

16. Click **Save**.

Next, enable the rule.

Adding an archive rule

The GV STRATUS Rules Engine can watch a location that is in the GV STRATUS system and transfer assets that match your criteria to an archive location. An archive rule can export clips, subclips, and playlists. For playlists, a conform job is automatically triggered to render the complex asset as a simple clip. The Rules Engine transfers the assets to the destination that you configure.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Archive**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

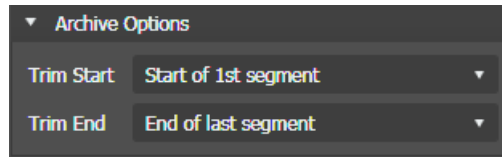
7. In **Rule Options** settings, specify the rule behavior.

The screenshot shows the 'Rule Options' configuration panel. It contains the following elements:

- A dropdown menu labeled 'Rule Options'.
- A checked checkbox labeled 'Visible in STRATUS UI'.
- A dropdown menu showing 'Execute rule only once per asset or segment'.
- A dropdown menu showing 'Priority: Normal'.
- A dropdown menu showing 'Apply rule on growing file'.
- Four radio buttons: 'Copy' (selected), 'Move', 'Rename', and 'Overwrite'.

- Select the **Visible in STRATUS UI** checkbox if you want to trigger the rule via context menu in the Asset List panel.
- Select whether the rule copies or moves the asset.
 - If you select **Move**, after the rule transfers the asset, it removes the source asset from the GV STRATUS system.
- Select whether the rule renames or overwrites the asset.
 - Rename**: The rule appends a suffix to the new asset file name. The existing asset is retained.
 - Overwrite**: The new asset overwrites the existing asset. The existing asset is deleted.
- Select when the rule is applied each asset.
 - Execute rule only once per asset**: The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - Execute every time rule conditions apply**: The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
- Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - Priority: High**: Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - Priority: Normal**: Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - Priority: Low**: Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- Select the condition when the rule is applied to each asset.
 - Apply rule on growing file**: The rule is applied to all files, including those that are still recording.
 - Apply rule on completed files**: The rule is only applied to files that have finished recording.

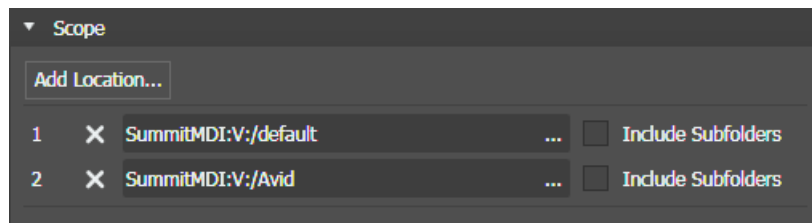
8. In **Archive Options** settings, specify the rule behavior if you only want to archive partial of the asset.



- **Trim Start:** Select the start of the segment to be archived.
- **Trim End:** Select the end of the segment to be archived.

NOTE: When this rule is applied to assets, assumed segments are existing, then the duration of the STRATUS asset is automatically adjusted.

9. In **Scope** settings, specify the location or locations in which the rule operates.



For archive rules, only valid K2 system locations are available.

- a) Click **Add location**.

The **Location Selection** dialog box opens.

- b) Navigate to and select the desired location.

You can select multiple locations in the **Location Selection** dialog box.

For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.

If desired, you can edit scope location path manually in the text box.

This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.


- c) Click **OK**.

The location is added to the **Scope** list.

- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.

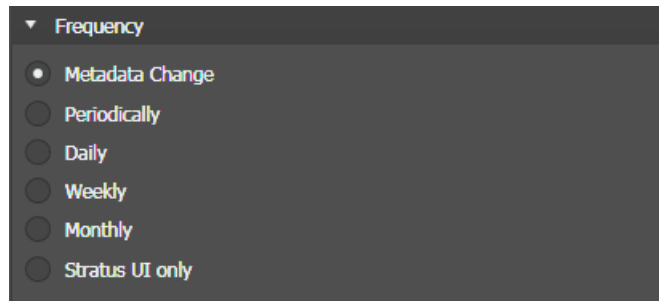
When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.

- e) Repeat these steps to add additional locations as desired.

- f) To change a location in the list, click the **Browse** button 

- g) To remove a location from the list, click **X**.

10. In **Frequency** settings, specify how often the Rules Engine triggers the rule.

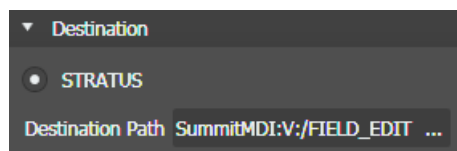


- a) Select one of the following options:

- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

11. In **Destination** settings, specify the destination of the assets on which the rule operates.



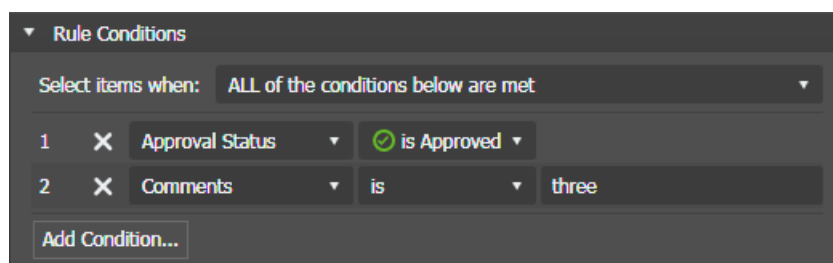
The destination must be a location in the GV STRATUS system. This is a location that is in the GV STRATUS application Navigator panel under the Locations node.

12. For Destination Path, click the **Browse** button **...**.

The Select Destination Path dialog box opens.

13. Navigate to the desired location and click **OK**.

14. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.



15. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

16. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

17. Click **Save**.

Next, enable the rule.

Adding a restore rule

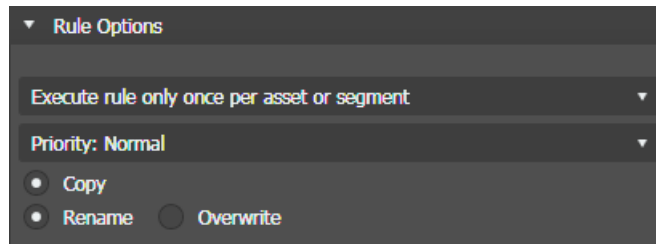
The GV STRATUS Rules Engine can watch a location that is in an archive system and transfer assets that match your criteria to a location that is in the GV STRATUS system. The Rules Engine transfers the assets to the destination that you configure.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.

Rule Editor settings open.

4. In the **Rule Type** drop-down list select **Restore**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

7. In **Rule Options** settings, specify the rule behavior.



For restore rules, you can copy only. The move option is not available.

- a) Select when the rule is applied each asset.

- **Execute rule only once per asset:** The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
- **Execute every time rule conditions apply:** The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.

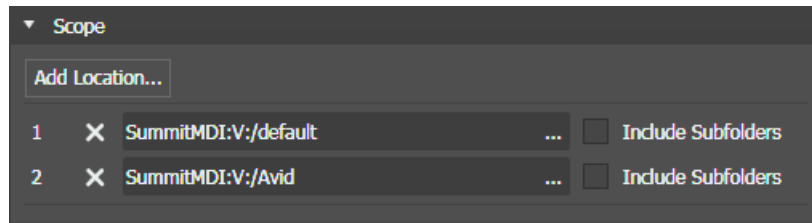
- b) Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.

- **Priority: High:** Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
- **Priority: Normal:** Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
- **Priority: Low:** Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.

- c) Select whether the rule renames or overwrites the asset.

- **Rename:** The rule appends a suffix to the new asset file name. The existing asset is retained.
- **Overwrite:** The new asset overwrites the existing asset. The existing asset is deleted.

8. In **Scope** settings, specify the location or locations in which the rule operates.



For restore rules, only valid archive locations are available.

- a) Click **Add location**.

The **Location Selection** dialog box opens.

- b) Navigate to and select the desired location.

You can select multiple locations in the **Location Selection** dialog box.

For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.

If desired, you can edit scope location path manually in the text box.

This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.

- c) Click **OK**.

The location is added to the **Scope** list.

- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.

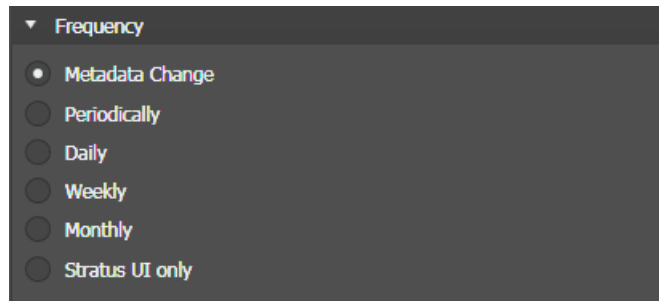
When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.

- e) Repeat these steps to add additional locations as desired.

- f) To change a location in the list, click the **Browse** button

- g) To remove a location from the list, click **X**.

9. In **Frequency** settings, specify how often the Rules Engine triggers the rule.

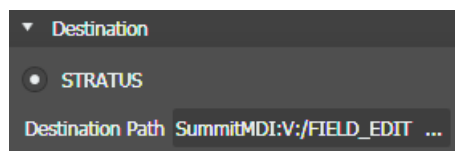


- a) Select one of the following options:


- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

10. In **Destination** settings, specify the destination of the assets on which the rule operates.



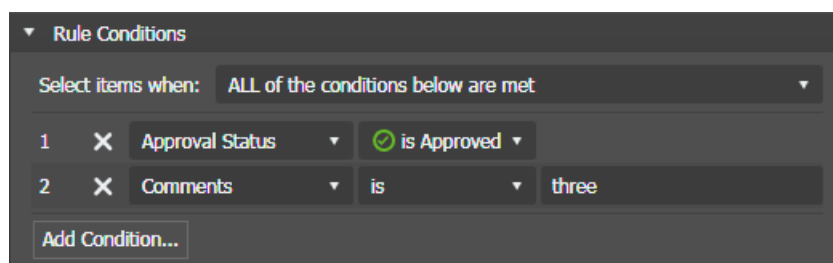
For restore rules, the destination must be a K2 system location. Assets cannot be restored to other GV STRATUS system locations.

11. For Destination Path, click the **Browse** button .

The Select Destination Path dialog box opens.

12. Navigate to the desired location and click **OK**.

13. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.



14. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

15. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

16. Click **Save**.

Next, enable the rule.

Custom rules

A selection of **Custom** is available on the **Rule Type** drop-down list. A custom rule requires consultation with Grass Valley and development of a custom workflow. The custom workflow must be in place before you can configure a custom rule. Contact Grass Valley Support for more information.

Adding a transfer to Avid rule

The GV STRATUS Rules Engine can watch a source location that is in the GV STRATUS system and transfer assets that match your criteria to a preconfigured destination location in the Avid system. For playlists, a conform job is automatically triggered to render the complex asset as a simple clip at the destination.

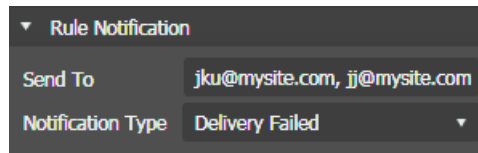
1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Transfer to Avid**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

7. In **Rule Options** settings, specify the rule behavior.

The screenshot shows a dark-themed configuration window titled 'Rule Options'. It contains three dropdown menus stacked vertically. The first dropdown is set to 'Execute rule only once per asset or segment'. The second dropdown is set to 'Priority: Normal'. The third dropdown is set to 'Apply rule on growing file'. Below these dropdowns, there is a radio button labeled 'Rename' which is selected, indicated by a small white circle to its left.

- a) Select when the rule is applied each asset.
 - **Execute rule only once per asset or segment:** The rule is applied once per asset or segment. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - **Execute every time rule conditions apply:** The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
- b) Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - **Priority: High:** Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - **Priority: Normal:** Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - **Priority: Low:** Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- c) Select the condition when the rule is applied to each asset.
 - **Apply rule on growing file:** The rule is applied to all files, including those that are still recording.
 - **Apply rule on completed files:** The rule is only applied to files that have finished recording.
- d) If an asset of the same name already exists at the destination location, configure the rule behavior:
 - **Rename:** A suffix is appended to the imported asset name. The existing asset is retained.

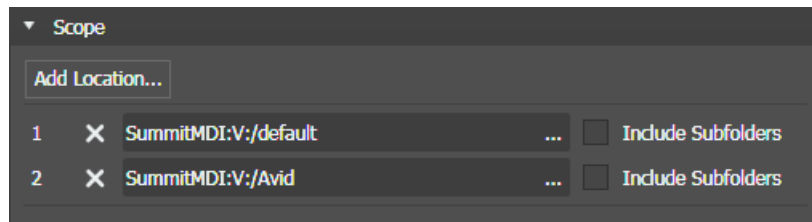
8. In **Rule Notification** settings, specify the notification behavior, if desired.



- a) Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- b) Select one or more notification types:
 - **Delivery Failed:** Emails are sent if the rule operation fails.
 - **Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

9. In **Scope** settings, specify the location or locations in which the rule operates.



- a) Click **Add location**.
The **Location Selection** dialog box opens.
- b) Navigate to and select the desired location.

You can select multiple locations in the **Location Selection** dialog box.

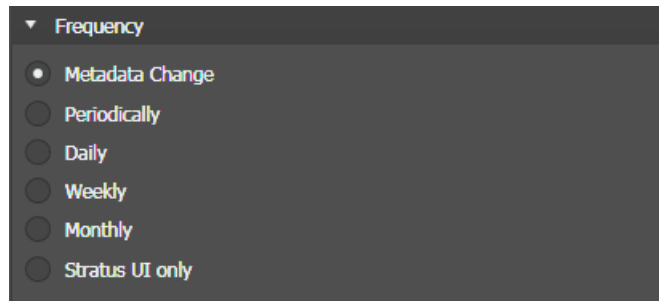
For Transfer, Export, Custom, and Transfer to Avid rules, you can also select logical asset locations under **Groups**.

If desired, you can edit scope location path manually in the text box.

This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.
- c) Click **OK**.
The location is added to the **Scope** list.
- d) For a location in the list, if you want the rule to operate on sub-folders as well, select **Include Subfolders**.

When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.
- e) Repeat these steps to add additional locations as desired.
- f) To change a location in the list, click the **Browse** button
- g) To remove a location from the list, click **X**.


10. In **Frequency** settings, specify how often the Rules Engine triggers the rule.



- a) Select one of the following options:

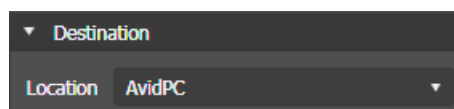
- **Metadata Change:** The rule is constantly monitoring files in the “Scope” folder (and file types depend on the rule condition).
- **Periodically:** Sets the number of minutes.
- **Daily:** Sets the number of days.
- **Weekly:** Sets the number of weeks.
- **Monthly:** Sets the day of each month.
- **STRATUS UI only:** The rule is only applicable when triggered by users via the context menu in Asset List of the STRATUS UI.

For Daily, Weekly, and Monthly options, a **Start Time** setting opens. Set the day and time the rule is triggered for the first time.

11. For Destination Path, click the **Browse** button .

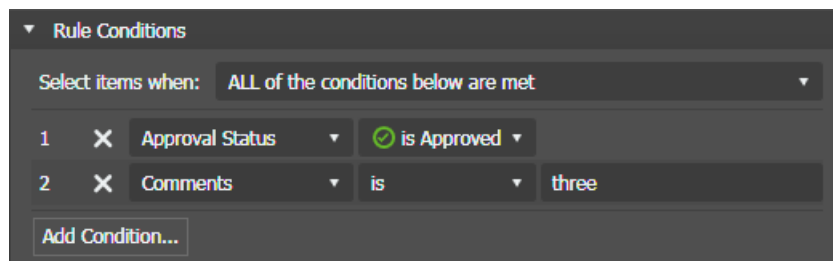
The Select Destination Path dialog box opens.

12. In **Destination** setting, select the location of the assets to be transferred.



The location must be an Avid system that had been configured in **General | Locations Config | Locations Configuration**. If not configured, the location is not available in the **Location** drop-down list.

13. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.



14. In the **Select items when** drop down list, select one of the following:

- **ALL of the conditions below are met:** Assets that match all conditions.
- **ANY of the conditions below are met:** Assets that match any condition.
- **Custom:** A Custom Expression field opens in which you can enter a custom expression.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.

15. Configure conditions as follows:

- For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition.
- Click the **X** button to remove a condition from the list.

Simple boolean operators AND, OR, and NOT are supported. Enter these operators in all capital letters. The **is Empty** setting and the period (.) mark are also supported when creating conditions.

If a newly created custom metadata field is not available in the **Add Condition** dialog, restart the GV STRATUS Control Panel application.

16. Click **Save**.

Next, enable the rule.

Example rule: Deleting EDIUS XS lock files

This rule can only be created if your GV STRATUS application is at version 4.0 or lower.

Do not create this rule if:

- Your GV STRATUS application is at version 4.5 and above.

You can create a rule that periodically deletes EDIUS XS lock files. This removes the lock from assets that were a part of an EDIUS XS project, so that you can access the asset after the EDIUS XS project is done. This is an example of a typical rule.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.

Rule Editor settings open.

4. In the **Rule Type** drop-down list select **Delete**.
5. In the **Name** field type in `EDIUS_LOCK_DELETE` as the name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.
7. In **Scope** settings, specify the location in which the rule operates.

- a) Click **Add location**.

The **Location Selection** dialog box opens.

- b) Navigate to the `EDIUS_LOCK` bin on the K2 system, select the bin, and click **OK**.

The location is added to the **Scope** list.

- c) Select **Include Subfolders**.

When this is selected, if there are multiple directories under the selected location, the rule operates in each of the sub-directories.

8. In **Frequency** settings, specify how often the Rules Engine triggers the rule.
 - a) Select the following option:
 - **Daily**: Sets the number of days.

A **Start Time** setting opens. Enter a time during which the system is not used, such as 3:00 AM.
9. In **Rule Options** settings, specify how the asset is deleted. Select the following option:
 - **Delete Entire Asset**: Deletes online material, archived material, and proxy.
10. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.
 - a) In the **Select items when** drop down list, select the following:
 - **ALL of the conditions below are met**: Assets that match all conditions.

Conditions and custom expressions are similar to those in GV STRATUS Advanced Search.
 - b) For each condition (1, 2, 3, 4, etc) click the **Add Condition** button and select from lists to define the condition, as follows.

1 [Asset Type] [is List]

2 [Modified] [is before] [48 hours ago]
11. Click **Save**.

This creates a rule that runs every day at 3:00 am. The rule searches in the *EDIUS_LOCK* bin and deletes any file that was modified more than 48 hours ago.

You have now created the rule, but the rule does not run until you enable it.

Next, enable the rule.

Example rules: Export segments, assets

You can create a rule that exports one of the following:

- Approved standard segments that are part of a live segmentation
- Approved assets

To export both segments and assets, you must configure one rule for segments and another rule for assets. These rules are examples of typical rules used in the Digital Media Platform workflow. These rules are customized for the specific workflow at the customer site.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.

Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Export**.
5. In the **Name** field type in a name for the rule you are configuring.
6. In the **Description** field type in a description for the rule you are configuring.

7. In **Rule Options** settings, specify the rule behavior.

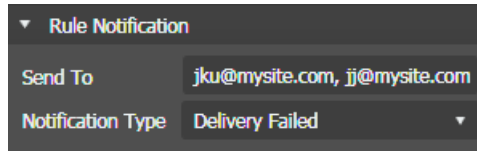
The screenshot shows the 'Rule Options' configuration panel. It contains the following elements:

- A checkbox labeled 'Visible in STRATUS UI' which is checked.
- A dropdown menu labeled 'Execute rule only once per asset or segment'.
- A dropdown menu labeled 'Priority: Normal'.
- A dropdown menu labeled 'Apply rule on growing file'.
- Four radio buttons for asset handling: 'Copy', 'Move', 'Rename', and 'Overwrite'. The 'Copy' radio button is selected.

- Select the **Visible in STRATUS UI** checkbox if you want to trigger the rule via context menu in the Asset List panel.
- Select whether the rule copies or moves the asset.

If you select **Move**, after the rule transfers the asset, it removes the source asset from the GV STRATUS system.
- Select whether the rule renames or overwrites the asset.
 - Rename:** The rule appends a suffix to the new asset file name. The existing asset is retained.
 - Overwrite:** The new asset overwrites the existing asset. The existing asset is deleted.
- Select when the rule is applied to each asset.
 - Execute rule only once per asset:** The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - Execute every time rule conditions apply:** The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
- Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - Priority: High:** Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - Priority: Normal:** Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - Priority: Low:** Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
- Select the condition when the rule is applied to each asset.
 - Apply rule on growing file:** The rule is applied to all files, including those that are still recording.
 - Apply rule on completed files:** The rule is only applied to files that have finished recording.

8. In **Rule Notification** settings, specify the notification behavior, if desired.



The screenshot shows a dark-themed dialog box titled 'Rule Notification'. It contains two fields: 'Send To' with the text 'jku@mysite.com, jj@mysite.com' and 'Notification Type' with a dropdown menu showing 'Delivery Failed'.

- a) Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- b) Select one or more notification types:
 - **Delivery Failed:** Emails are sent if the rule operation fails.
 - **Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

9. In **Scope** settings, specify the location or locations in which the rule operates.
- a) Click **Add location**.
The **Location Selection** dialog box opens.
 - b) Navigate to and select the desired location.
This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any assets that match the rule conditions and then operates on the assets that match.
 - c) Click **OK**.
The location is added to the **Scope** list.
 - d) Do not select **Include Subfolders**.
10. In **Export Filename Format** settings, set the convention for the name of the exported file.
Select **Asset Name** only.
11. In **Frequency** settings, specify how often the Rules Engine triggers the rule, as follows:
- **Metadata Change:** The rule is constantly monitoring assets in the "Scope" location.

12. In **Export Options** settings, configure the format of the exported files.

a) For **Transcode Format**, configure as follows:

- Configure a specific transcode format (MP4 AVC), as it exists in a currently configured Elemental transcode profile.

When a **Transcode Format** is selected, **Native Format** is automatically set to None and disabled.

b) For **Metadata Format**, select as follows to additionally export an XML metadata file:

- Select **GV STRATUS Simple**.

If you select a metadata format, the **Metadata-Destination Path** field is enabled.

c) For **Metadata-Destination Path**, configure as follows:

- You are exporting the metadata file to the same destination as the asset file, so leave this field blank. The file goes to the path configured in **Destination** settings.

d) For **Thumbnails - Marker**, select as follows:

- **None**: The export does not contain thumbnails.

e) For **Closed Caption Format**, select as follows:

- **K2-SCC**: Workflow Engine extracts CEA-608 information stored in Ancillary data (CEA-708) from the asset on the K2 system and exports to a file in SCC format.

If you select a Closed Caption format, the **CC-Destination Path** field is enabled.

f) For **CC-Destination Path**, configure as follows:

- You are exporting the Closed Caption file to the same destination as the asset file, so leave this field blank. The file goes to the path configured in **Destination** settings.

13. In **Destination** settings, enter \\server\folder.

14. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.

▼ Rule Conditions

Select items when: ALL of the conditions below are met

1	X	Segmentation Type	is Live
2	X	Segment Approval	is Approved
3	X	Segment Type	is Standard

Add Condition...

15. In the **Select items when** drop down list, select **ALL of the conditions below are met**.

16. For each condition (1, 2, 3) click the **Add Condition** button and select from lists to define the condition.

- For a rule that exports segments, configure conditions as follows:

1	Segmentation Type	is Live
2	Segment Approval	is Approved
3	Segment Type	is Standard

In the list of conditions, segment custom metadata is listed in its own section, separate from asset custom metadata.

- For a rule that exports assets, configure conditions as follows:

1	Asset Approval	is Approved
2	PrimaryAngle	is True

You can set the rule to transfer all angles of an asset if you set the **PrimaryAngle** condition to **is True**.

17. Click **Save**.

Next, enable the rule.

Example rule: Export to a YouTube channel

- The Data Mover Engine must be registered with the YouTube account that you used to create the YouTube channel.
- Custom metadata must be added if you want to export the description, category, or privacy status together with the asset into your YouTube channel. If not, the export file name displays as the default clip title and privacy status is automatically set as **Unlisted**.

To create a rule that exports assets into your YouTube channel automatically, do the following:

- Log in to the GV STRATUS Control Panel application with administrator privileges.
- In the GV STRATUS Control Panel application, click **General | Rules**.
- Click **Add**.
Rule Editor settings open.
- In the **Rule Type** drop-down list select **Export**.
- In the **Name** field type in a name for the rule you are configuring.
- In the **Description** field type in a description for the rule you are configuring.

7. In **Rule Options** settings, specify the rule behavior.

The screenshot shows the 'Rule Options' configuration panel. It contains the following elements:

- A checkbox labeled 'Visible in STRATUS UI' which is checked.
- A dropdown menu labeled 'Execute every time rule conditions apply'.
- A dropdown menu labeled 'Priority: Normal'.
- A dropdown menu labeled 'Apply rule on growing file'.
- Four radio buttons: 'Copy', 'Move', 'Rename', and 'Overwrite'. 'Copy' and 'Rename' are selected.

- Select the **Visible in STRATUS UI** checkbox if you want to trigger the rule via context menu in the Asset List panel.
 - Select when the rule is applied to each asset.
 - Execute rule only once per asset:** The rule is applied once per asset. The Rules Engine uses data stored in the asset's **ExecutedByRules** metadata field to determine if the rule has been applied to the asset. If it has been applied, the Rules Engine does not apply it again, even if the rule criteria still match for the asset.
 - Execute every time rule conditions apply:** The rule can be applied multiple times per asset, if the asset matches rule conditions multiple times.
 - Select the condition when the rule is applied to each asset.
 - Apply rule on growing file:** The rule is applied to all files, including those that are still recording.
 - Apply rule on completed files:** The rule is only applied to files that have finished recording.
 - Select whether the rule copies or moves the asset.

If you select **Move**, after the rule transfers the asset, it removes the source asset from the GV STRATUS system.
8. In **Rule Notification** settings, specify the notification behavior, if desired.

The screenshot shows the 'Rule Notification' configuration panel. It contains the following elements:

- A text field labeled 'Send To' containing the email addresses 'jku@mysite.com, jj@mysite.com'.
- A dropdown menu labeled 'Notification Type' with 'Delivery Failed' selected.

- Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- Select one or more notification types:
 - Delivery Failed:** Emails are sent if the rule operation fails.
 - Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

9. In **Export Filename Format** settings, set the convention for the name of the exported file.

▼ Export Filename Format

☒ Asset Name ☐ Keywords ☐ Mark In/Out
☐ Date/Time ☐ User Text ☒ Add Format Name
☐ Upper-case File extension

{AssetName}_{FormatName}.{ext}

User Text

Example MyAsset_mp4.mxf

NOTE: The file name will be truncated if it exceeds the limit of 180 characters

10. In **Frequency** settings, specify how often the Rules Engine triggers the rule.
11. In **Export Options** settings, configure the format of the exported files.

▼ Export Options

Native Format None ▼

Transcode Format Native Proxy Format ▼

Metadata Format Youtube Custom ▼

Metadata-Destination Path ...

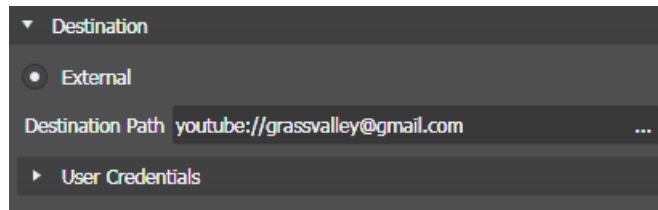
▶ User Credentials

Thumbnails - Marker None ▼

Closed Caption Format None ▼

- a) For **Transcode Format**, select **Native Proxy Format** under the STRATUS section.
 When a **Transcode Format** is selected, **Native Format** is automatically set to None.
- b) For **Metadata Format**, select the YouTube format if you want to export metadata with the asset.
 If none is selected, no metadata will be exported into YouTube. Custom metadata for YouTube works by editing the YouTube metadata XSLT file. If you need a customized transform for your workflow, contact Grass Valley Support.
- c) If the metadata format is selected, then browse and select the **Metadata-Destination Path** of the metadata XSLT file.

12. In **Destination** settings, define the YouTube destination path.



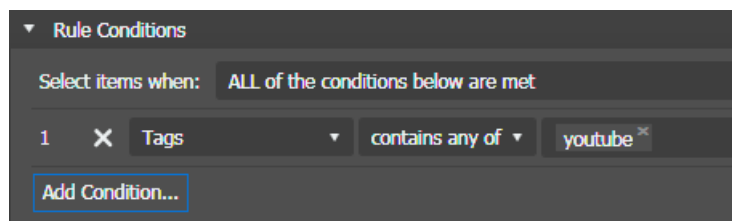
For Export rules, the destination must be a location that is external to the GV STRATUS system and not managed by the GV STRATUS system. An external location is not visible in the GV STRATUS application Navigator panel.

You can set the YouTube channel for exports as follows:

- **Destination Path:** youtube://<YouTube account>

You must register the YouTube account in the Data Mover Engine setting of GV STRATUS Control Panel before entering the destination path.

13. In **Rule Conditions** settings, specify the condition the Rules Engine looks for before exporting to the YouTube channel.



14. In the **Select items when** drop down list, select **ALL of the conditions below are met**.
15. For each condition, click the **Add Condition** button and select from lists to define the condition.
16. Click **Save**.

Next, enable the rule.

Related Topics

[Data Mover engine settings](#) on page 281

[Custom Metadata Add/Modify Field settings](#) on page 269

[Workflow engine settings](#) on page 283

Enabling and disabling rules

You can make a rule become active or inactive while retaining its configuration.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.

Consider the Rules Engine setting Startup Mode and the Confirm Activation option when you enable a rule, as the behavior is similar. With the Rules Engine setting you specify the behavior of all currently enabled rules when the Rules Engine starts up. With the Confirm Activation option, you specify the behavior of an individual rule when you manually enable the rule.

Related Topics

[Rules engine settings](#) on page 284

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

Simulating rule

Before
rule. T
that af

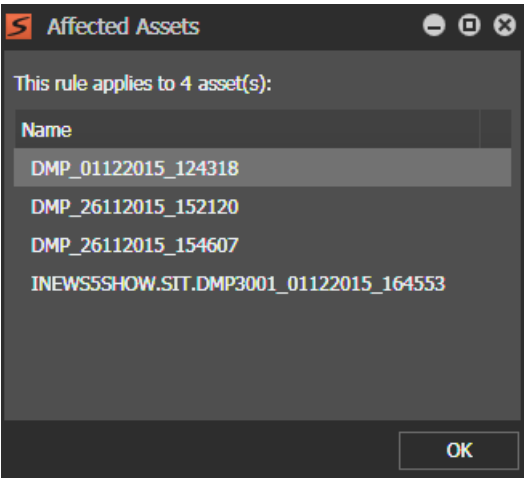
NOTE

- 1. Log
- 2. In t
- 3. Do

Rules Monitor		Rule Editor					
Name	Description	Status	Scope	Destination	Failed		
Archive Diva		✓ Enabled	SummitMDI:V:/0_Auto	DivaMDI:STORAGE-O...	3		
Delete LK	Delete LK		SummitMDI:V:/0_Bin...		14		
Delete2		✓ Enabled	SummitMDI:V:/0_Bin		15		
Export	Normal		SummitMDI:V:/From...	\\10.251.53.115\FTP...	2		
Export - DMP	DMP		SummitMDI:V:/default	ftp://10.251.53.115/	219		
Export - Audio	To NETIA		SummitMDI:V:/ZZ Top	\\10.251.52.248\inco...	56		
Export - Carbon Cod...			SummitMDI:V:/default	ftp://10.251.53.115/	23		
Add		Modify	Properties	Remove	Enable	Simulate	

- Open a rule in the **Rule Editor** by clicking **Add** or **Modify** as appropriate.
4. Click **Simulate**.

The **Affected Assets** dialog box opens and reports the number of current assets to which the rule applies. It also lists the affected assets.



5. On the **Affected Assets** dialog box, click **OK** to close.

Monitoring rules

You can view reports of rule operations to check the results of your enabled rules.

1. In the GV STRATUS Control Panel application, in Rules Monitor Settings, click **Refresh** and then view the report in the Failed column.

Rules Monitor		Rule Editor					
Name	Description	Status	Scope	Destination	Failed		
Archive Diva		✓ Enabled	SummitMDI:V:/0_Auto	DivaMDI:STORAGE-O...	3		
Delete LK	Delete LK		SummitMDI:V:/0_Bin...		14		
Delete2		✓ Enabled	SummitMDI:V:/0_Bin		15		
Export	Normal		SummitMDI:V:/From...	\\10.251.53.115\FTP...	2		
Export - DMP	DMP		SummitMDI:V:/default	ftp://10.251.53.115/	219		
Export - Audio	To NETIA		SummitMDI:V:/ZZ Top	\\10.251.52.248\inco...	56		
Export - Carbon Cod...			SummitMDI:V:/default	ftp://10.251.53.115/	23		
Add		Modify	Properties	Remove	Enable	Simulate	

2. To monitor GV STRATUS system jobs triggered by you and by others, in the GV STRATUS application Navigator panel, do one of the following according to the types of jobs you are monitoring:
 - Double-click **Monitors | Jobs** and sort on the **Type** column.
 - Double-click **Monitors | Jobs | Asset Transfers**
 - Double-click **Monitors | Jobs | Conform**
 - Double-click **Monitors | Jobs | Rules Workflows**
 - Double-click **Monitors | Jobs | Transcodes**

↑↓

Asset Transfers

✕

Max: 100 jobs

in

📁

Asset Tra

📁 100 jobs


Name	State	Progress	Type	Created Date	Modified Date
↑ 720p50XdcamHd422	✔ Complete	100%	Transfer Job	20/11/2015 4:05:35 PM	20/11/2015 4:06:28 PM
↑ 4395TV - 16Track	✖ Failed	0%	Transfer Job	19/11/2015 3:59:41 PM	19/11/2015 3:59:48 PM
↑ FUTURE-SINGLEa_16....	✔ Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
↑ .@236_SIT320XF	✔ Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
↑ .@11_SIT320XE	✔ Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
↑ A127 ~(74)	✔ Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:10 PM
↑ A127 ~(78)(B)	✔ Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:11 PM
↑ A127 ~(78)(A)	✔ Complete	100%	Transfer Job	19/11/2015 3:59:03 PM	19/11/2015 3:59:06 PM

The Jobs List displays GV STRATUS operations that can be monitored. Operations that are currently in progress or have failed are also displayed.

3. To change the priority of an upcoming job in the queue of jobs waiting to be processed, right-click an upcoming job, select **Change Priority**, and then select one of the following:

Options	Description
High	The job will be processed with high priority.
Normal	The job will be processed with normal priority.
Low	The job will be processed with low priority.

You must be assigned the Queue Management role in GV STRATUS Control Panel in order to change job priority. If not assigned, menu selections are disabled.

4. To stop the GV STRATUS system from running an upcoming job, right-click an upcoming job and select **Cancel**.
5. To navigate to the asset of a specific job, do one of the following:
 - Right-click on the job and select **View Related | Asset**.
The asset displays in the Asset List. Double-click the asset to view it in the Inspector.
 - Double-click the job in Jobs Monitor.
The job and asset properties display on separate tabs in the Inspector. Click on the **Asset** tab, and double-click the asset to view it in the Inspector.
6. To view all related jobs to export and transfer-to-playout rules, do the following:
 - a) Select **Monitors | Jobs** and double-click on **Rules Workflows**.
 - b) Double-click on an export or transfer job in the **Rules Workflows** monitor.
The properties, asset, and related jobs display on separate tabs in the Inspector.
 - c) Click on the **Jobs** tab to view all related jobs to the selected rule workflow.
7. To remove a completed job from the list, right-click a completed job and select **Delete**.
8. Click the **Refresh** button  if the Jobs List is not updated.

Copying rules

You can copy rules in the Rules Monitor to save time when you need to configure several rules in your operation.

1. In the GV STRATUS Control Panel application, go to **General | Rules | Rules Monitor**.
2. Select a rule or multiple rules that you want to copy in the Rules Monitor.
3. Right-click on the rule(s) and select **Duplicate Rule(s)**.

The duplicated rule appears in the Rules Monitor with the same rule name and appended with this default suffix: **_Copy(1)**

If the same rule is duplicated multiple times, the value of the default suffix increments every time.

Exporting rules

You can export rules to another GV STRATUS system to avoid recreation of rules from scratch. Therefore, you can save time when configuring the other GV STRATUS system.

1. In the GV STRATUS Control Panel application, go to **General | Rules | Rules Monitor**.
2. Select a rule or multiple rules that you want to export in the Rules Monitor.
3. Right-click on that rule(s) and select **Export to XML | Save selected Rule**.

You can also select **Save all Rules** if you want to export all your configured rules.

4. Browse to select the export location and click **Save**.

The rule is exported as an XML file to the selected location.

Importing rules

You can import rules from another GV STRATUS system to avoid recreating rules repeatedly.

1. In the GV STRATUS Control Panel application, go to **General | Rules | Rules Monitor**.
2. Right-click on the Rules Monitor panel and select **Import from XML | Append existing Rule(s)**.

You can also select **Skip existing Rule(s)** if you don't want to import the same as existing rules.

3. Browse to select the XML file at the import location and click **Open**.

The rule is imported into your GV STRATUS Control Panel and appears in the Rules Monitor panel.

Applying rules via the Asset List

- The **Visible in STRATUS UI** checkbox must be selected under **Rule Options** section in **General | Rules | Rule Editor** of GV STRATUS Control Panel.
- Optionally, select **STRATUS UI only** option under **Frequency** section when configuring the rule in **Rule Editor** tab to only trigger the rule from the UI.
- The rule must be enabled in GV STRATUS Control Panel.

You can trigger rules to be applied on assets via context menu in the Asset List. This is applicable to Export, Transfer, Archive, and Custom rules.

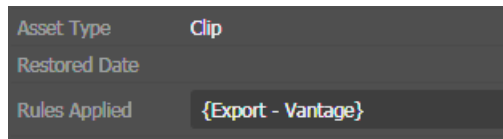
1. In GV STRATUS application, select an asset to be applied with the rule in Asset List.
2. Right-click on the asset and select **Apply Rule | {Rule Name}**.



The rule is automatically triggered and applied on the asset.

You can see the progress of applied rule in Jobs Monitor. In the Type column, the job displays as **Rules Workflow Job**.

After the job is completed, you can see the rule name in the **Rules Applied** field on the Properties tab of the asset in Inspector.



Related Topics

[Adding an archive rule](#) on page 508

[Adding an export rule](#) on page 490

[Adding a transfer rule](#) on page 504

[Enabling and disabling rules](#) on page 528

Identifying assets affected by rules

In the GV STRATUS application you can determine if the Rules Engine has applied a rule to an asset. You do this by searching on the name of the rule. Therefore, create rule names that contain a unique term on which you can search.

In the GV STRATUS application, do an Advanced Search with conditions such as the following:

Rules Applied | contains | <unique term>

For example, if all your export rule names contain the unique term "export", then your search condition is as follows:

Rules Applied | contains | export

The search returns a list of all the assets affected by rules with the unique term in their name.

Adding a thumbnail marker

When configuring an export rule, if you choose to export thumbnails, you must define the thumbnail for an exported asset. An export thumbnail is defined by a `tn` marker added to the source asset. Multiple thumbnails are exported when the source asset has multiple `tn` markers.

1. Load the asset into a GV STRATUS component that adds markers, such as Inspector, Source Viewer, or Channel Panel.
2. In the asset, identify the image to use as an export thumbnail.
3. Add a marker at the image location and name it as `tn`.

The thumbnail at the marker is exported by the export rule.

You can see the export rule is automatically triggered in the **Rules Applied** field on the Properties tab of the Inspector.

You can also see the thumbnail transfer progress in Jobs Monitor.

Related Topics

[Adding an export rule](#) on page 490

Adding a Carbon Coder transcode profile

GV STRATUS rules support transcode profiles you create using third party applications. This topic provide steps for the Harmonic ProMedia™ Carbon (formerly Carbon Coder™) application. Refer to the manufacturer's product latest documentation for the list of supported formats.

1. Create the transcode profile as required by your workflow, with requirements as follows:
 - Only one output format per transcode profile is supported by GV STRATUS rules.
 - For import rules, the profile must be a format supported by the K2 and GV STRATUS system and the profile name must have the prefix `Import_`, such as `Import_HD_MXF-D10_NTSC_50.PCP`.

2. Identify the transcode profile file.

For the ProMedia application, it is the project file, with a *pcp* file extension.

3. Identify the GV STRATUS server that hosts the GV STRATUS Xcode Control Engine. Typically this is the GV STRATUS Core server.
4. Copy the transcode profile to the following directory on the Xcode Control Engine host:

`C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\RhozetCC`

5. Wait approximately one minute for the GV STRATUS system to detect the transcode profile.

Transcode profiles are available as Transcode Formats when configuring GV STRATUS rules.

Related Topics

[Xcode Control engine settings](#) on page 280

Adding a Vantage transcode profile

GV STRATUS rules support transcode profiles you create using third party applications. This topic provide steps for the Telestream Vantage™ application. Refer to the manufacturer's product latest documentation for the list of supported formats.

On the GV STRATUS server that hosts the GV STRATUS Xcode Control Engine (typically this is the GV STRATUS Core server), you can find Vantage workflow files at `C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\Vantage`. The files at this location are templates. They are not active Vantage workflows and GV STRATUS rules do not detect these files as transcode profiles. To use one of these template files, you must import it into Vantage Workflow Designer in the "STRATUS" category and activate it as a Vantage workflow. After it is activated in the

"STRATUS" category, GV STRATUS rules automatically discover the Vantage workflow as a transcode profile. It is not necessary to copy files to the Xcode Control Engine host.

1. Using the Vantage Workflow Designer, create the transcode profile as required by your workflow, with requirements as follows:

- a) Create a "STRATUS" category.
- b) Import or create Vantage workflows in the "STRATUS" category.

If desired, you can copy template Vantage workflows from the Xcode Control Engine host at `C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\Vantage` to an accessible location and import them into Vantage Workflow Designer.

- For an export rule, the profile description must start with the word `Stratus`.
- For an import rule, the profile must be a format supported by the K2 and GV STRATUS system and the profile description must start with the words `Stratus Import`.

- c) Configure the **Receive** action.

This must be the first action in the workflow.

- d) In the Receive action, for **Media Files**, set the **Expected Nickname** to **Original**.

- e) Configure the **Flip** action.

This must be the second action in the workflow.

- f) In the Flip action, set **Input media file nickname** to **Original**.

- g) In the Flip action, set **Output Location** to the **OutputPath** variable.

- h) When you are done editing the Vantage workflow, click the **Release** button and then the **Activate** button.

The Vantage workflow is now activated in the "STRATUS" category.

Only one output format per transcode profile is supported by GV STRATUS rules.

2. Wait approximately one minute for the GV STRATUS system to detect the transcode profile.

Transcode profiles are available as Transcode Formats when configuring GV STRATUS rules.

Related Topics

[Xcode Control engine settings](#) on page 280

Adding an Elemental transcode profile

GV STRATUS rules support transcode profiles you create using third party applications. This topic provides steps for the Elemental[®] Server web application. Refer to the manufacturer's product latest documentation for the list of supported formats.

1. In GV STRATUS Control Panel Xcode Control engine settings, configure working directory, Elemental server and transcode settings.

2. Using the Elemental Server web application, do the following:
 - a) Configure the working directory as a mount point in Elemental.
This is the working directory that you configured in Xcode Control engine settings.
 - b) Configure profiles for use by GV STRATUS rules as follows:
 - Only one output format per transcode profile is supported by GV STRATUS rules.
 - For an export rule, the profile description must start with the word *Stratus*.
 - For an import rule, the profile must be a format supported by the K2 and GV STRATUS system and the profile description must start with the words *Stratus Import*.

Refer to Elemental product documentation as necessary.

3. Wait approximately two minutes for the GV STRATUS system to detect the Elemental configuration as a transcode profile.

Transcode profiles are available as Transcode Formats when configuring GV STRATUS rules.

Related Topics

[Xcode Control engine settings](#) on page 280

Configuring Aspera

GV STRATUS rules support file transfer using third party applications. This topic provides steps for Aspera.

1. On the Aspera server, add the following to the config file at *C:\Program Files (x86)\Aspera\Enterprise Server\etc\aspera.conf*.

```
<server>
<http_port>9091</http_port>
<enable_http>true</enable_http>
<ssh_port>22</ssh_port>
</server>
<central_server>
<port>40001</port>
<address>127.0.0.1</address>
<schema_validation>disable</schema_validation>
</central_server>
```

2. Save the config file.

Importing metadata to create or update assets

You can use GV STRATUS Import rules metadata features to exchange assets with external systems. You can import metadata for an asset that already exists in the GV STRATUS system. This updates the asset's metadata without changing the media essence. You can also update both asset's metadata and media essence, if desired.

Conversely, you can import metadata for an asset that does not yet exist in the GV STRATUS system. This creates a metadata-only GV STRATUS asset, ready for future updates with media essence.

A typical workflow for an existing GV STRATUS asset is as follows:

- Export a GV STRATUS asset's closed caption metadata as an XML file to a translation vendor.
- The translation vendor adds translated versions to the closed caption metadata.
- Import the closed caption metadata XML file into the GV STRATUS system, using GV STRATUS Rule Import Options as follows:
 - Transcode Format: None
 - Metadata Format: GV STRATUS Simple Import
 - Options: Update Asset Metadata
- The GV STRATUS asset now includes the translated closed caption metadata.

The metadata XML file must contain the asset's unique ID.

A typical workflow for creating a new GV STRATUS asset is as follows:

- Provide a copy of a clip to a translation vendor.
- The translation vendor creates closed caption information in an XML file that complies with GV STRATUS metadata.
- Import the closed caption metadata XML file into the GV STRATUS system, using GV STRATUS Rule Import Options as follows:
 - Transcode Format: None
 - Metadata Format: GV STRATUS Simple Import
 - Options: Create New Asset
- The GV STRATUS system creates a metadata-only asset.
- Import the clip with the media essence into the GV STRATUS system.
- The media essence becomes a part of the GV STRATUS asset.

Configuring the XML metadata file name extension

GV STRATUS rules support file transfer into external management systems. For compatibility with the external system, you can set a specific file name extension in the XML metadata export profile for smooth transfers in your operation.

1. On the machine where the Transcode Control Engine is installed, locate the folder containing the metadata export profiles in the path below:

```
C:\Program Files\Grass Valley\STRATUS Transcode  
Engine\Profiles\AssetMetadataExport
```

2. Select the XSLT metadata export profile, create a copy, and rename the file.

For example, copy "GV STRATUS Simple.xslt" and rename the new file as "GV STRATUS MRSS.xslt".

3. Open the new file with a text editor of your choice, e.g. Notepad.exe.

4. Add the line below with the desired file extension anywhere (but not inside an XML tag):

```
<!-- FileExtension="mrss" -->
```

It is recommended to add it directly above the line with the first template match: `<xsl:template match="/">`

5. Click **Save** and close the file.

For the XSLT metadata export profile, it is just an XML comment line. However, it will activate the Transcode Control Engine to create the correct file name extension as specified.

Inserting file names of exported files in the XML metadata file

Previously there is no way to access file names of essences that were transferred via export rules, especially when exporting multiple essence files with a transcoding step in between. Now users are able to insert file names and other details in the XML metadata file that will be exported via export rules. Those file names can be extracted later via automated processing.

1. On the machine where the Transcode Control Engine is installed, locate the folder containing the metadata export profiles in the path below:

```
C:\Program Files\Grass Valley\STRATUS Transcode
Engine\Profiles\AssetMetadataExport
```

2. Select the XSLT metadata export profile, create a copy, and rename the file.

For example, copy "GV STRATUS Simple.xslt" and rename the new file as "GV STRATUS Extended.xslt".

3. Open the new file with a text editor of your choice, e.g. Notepad.exe.
4. Add a new XML node that contains all essence file names, thumbnails, CloseCaption file, metadata file, and their file paths as in the example below:

```
-Native file: assetname_Keywords_Mark In_Date_UserText.gxf

-transcoded file(s): assetname_Keywords_Mark
In_Date_UserText_FormatName.mp4; assetname_Keywords_Mark
In_Date_UserText_FormatName.wmv; ...

-TN's: assetname_Keywords_Mark
In_Date_UserText_10:03:05:00.jpg; ....

-CloseCaption file: ftp://server/path; assetname_Keywords_Mark
In_Date_UserText_FormatName.mp4

-Metadata file: ftp://server7path; assetname_Keywords_Mark
In_Date_UserText_FormatName.xml
```

5. Click **Save** and close the file.

Transcode rule access

To support third party transcode applications in GV STRATUS rules, servers, network shares, and application must have access to one another over the media network.

A working directory must be created manually as a network share and configured in GV STRATUS Control Panel. The Xcode Control engine temporarily places files in the working directory while exporting an asset. The directory must have enough capacity for your largest concurrent exports and must be hosted by a system with sufficient system resources to process your workload. Grass Valley recommends that the directory be on the K2 storage system, either K2 SAN or if no K2 SAN is present, a standalone K2 Summit system. The working directory must be accessible as follows:

- From the K2 system
- From the transcode application host
- From the GV STRATUS server(s) running the Workflow Engine and the Xcode Control engine.
- The internal system account, which by default is GVAdmin, must have access to the directory.
- If using Elemental[®], the directory share must be configured in the Elemental Server web application as a mount point. Refer to Elemental[®] for more information.

The transcode application host must have access as follows:

- FTP access to K2 storage.
- If source files are located on a network share, the transcode application host must have access to the share.
- The network share directory to which the transcode application writes its output.
- Full access to the shared working directory.

The Xcode Control engine must have access as follows:

- The network share directory to which the transcode application writes its output.
- Full access to the shared working directory.
- For Harmonic ProMedia[™] Carbon (formerly Carbon Coder[™]):
 - Network access to the Carbon Server port 1120.
- For Telestream Vantage[™]:
 - Network access to the Vantage Server port 8676.
 - Full access to the *store* share on the Vantage server.

Setting up Avid workstations with GV STRATUS

The MEWS system must be installed and operational.

Work through the topics in this section to set up the workflow between GV STRATUS and Avid Media Composer[®].

MEWS Server set up process

Only systems with a MEWS Server require this process. Use SiteConfig for software install of GV STRATUS components. On the GV STRATUS Core server, use SabreTooth and install the MEWS license.

1. [SiteConfig MEWS Server network set up](#) on page 541. Only systems with a MEWS Server require this process.

2. [SiteConfig MEWS Server software install](#) on page 542. Only systems with a MEWS Server require this process.
3. [SabreTooth MEWS license process](#) on page 544. Only systems with a MEWS Server require this process.

SiteConfig MEWS Server network set up

Only systems with a MEWS Server require this process.

Adding a MEWS Server to the SiteConfig system description

- MEWS Servers are racked, cabled, and powered on.
- The system description must contain a group.

This topic applies to a MEWS Server.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
2. Configure settings for the device you are adding as follows:
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS MEWS Server
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select the number of MEWS Servers, according to your system design.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.

3. Click **OK** to save settings and close.

SiteConfig adds the MEWS Server to the system description as a placeholder device.

4. Verify that unmanaged control network interface is configured correctly and modify if necessary.

Next, add the server to the control network.

Adding a GV STRATUS server to the control network with SiteConfig

Use SiteConfig to configure network settings on a GV STRATUS server.

Before doing this task, make sure the GV STRATUS server is added as a placeholder device to the SiteConfig system description.

The following steps are the standard tasks for adding a device to the control network using SiteConfig. Use these steps for the GV STRATUS server you are adding.

1. Discover the device using SiteConfig device discovery.
2. Assign the discovered device to the placeholder device in the SiteConfig system description.
3. Modify the control network interface to ensure communication on the control network.

4. Modify the host name and/or device name as desired.
5. Ping the device to verify network communication.
6. Verify credentials to ensure SiteConfig can install software on the device.
7. Generate and/or add to host tables as appropriate for your network.

Related Topics

[Adding a device to a network with SiteConfig](#) on page 419

[Adding a device to a network with SiteConfig](#) on page 419

SiteConfig MEWS Server software install

Only systems with a MEWS Server require this process.

- If your GV STRATUS system has one or more MEWS Servers, install software on those servers.

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.

2. In the Tasks list view, view tasks and determine if you must set deployment options.

Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."

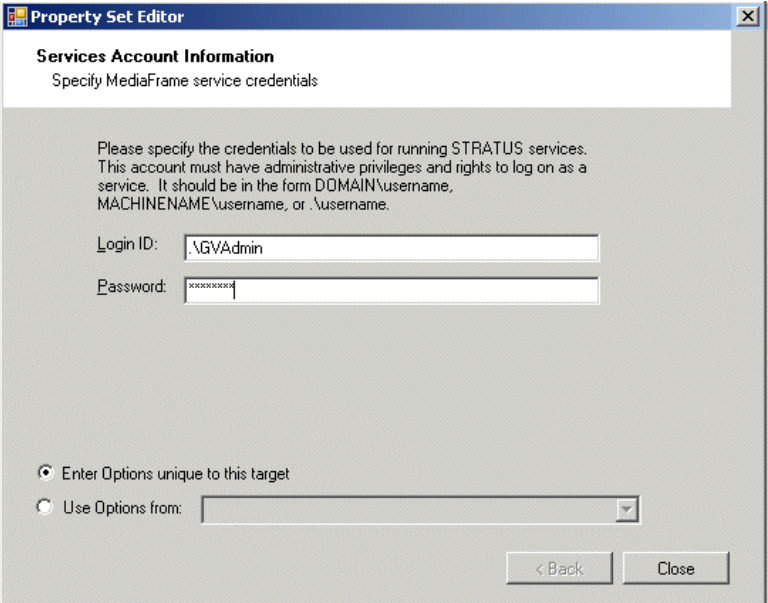
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.

3. Do one of the following to set deployment options:

- Double-click the task.
- Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on a MEWS Server

Only systems with one or more MEWS Servers require this process. Use SiteConfig to install software on the MEWS Servers.

- The server on which you are installing software is in the SiteConfig system description and communicating on the control network.

- The server on which you are installing software has its credentials set in SiteConfig to allow access.
 - The GV STRATUS MEWS Engine must not be installed together with any other engine to avoid conflict for the usage of port 8081.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS MEWS Engine
 - GV Log Manager
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.
 3. Add the following files to the deployment group:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_MEWS_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.
5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
6. Deploy software to the server.
7. Restart as prompted.
8. After deployment is complete, start the MEWS Service.

Next, license the MEWS Server.

SabreTooth MEWS license process

Only the GV STRATUS server with role of Common Services requires this process.

The following MEWS license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

These licenses are required for each MEWS Service software component in your GV STRATUS system. They are SabreTooth floating licenses, not restricted to a single computer.

- STRATUS-XCODECONTROLMEWSEXT
- STRATUS-XCODECONTROLMEWS

The STRATUS-XCODECONTROLMEWSEXT license supports native format transfers between Avid and GV STRATUS, without transcoding capability. With this license, native format is the only supported transcode format for imports via the rules engine.

The STRATUS-XCODECONTROLMEWS license is optional for added functionality: it supports all MEWS transcode formats in import rules.

NOTE: Multiple MEWS licenses of the same type are not supported in a GV STRATUS system.

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

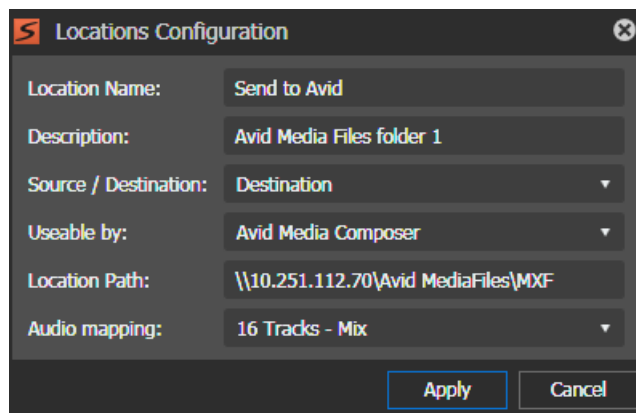
Configure Avid Media Composer send destinations

Only systems that send assets to Avid Media Composer® workstations require this process.

- A separate server machine was configured and the MEWS software deployed by SiteConfig.
- A "STRATUS-XCODECONTROLMEWSEXT" or "STRATUS-XCODECONTROLMEWS" license is available.

For each Avid Media Composer® workstation, configure a location as follows:

1. In GV STRATUS Control Panel, navigate to **General | Locations Config | Locations Configuration | Add**.



Location Name:	Send to Avid
Description:	Avid Media Files folder 1
Source / Destination:	Destination
Useable by:	Avid Media Composer
Location Path:	\\10.251.112.70\\Avid MediaFiles\\MXF
Audio mapping:	16 Tracks - Mix

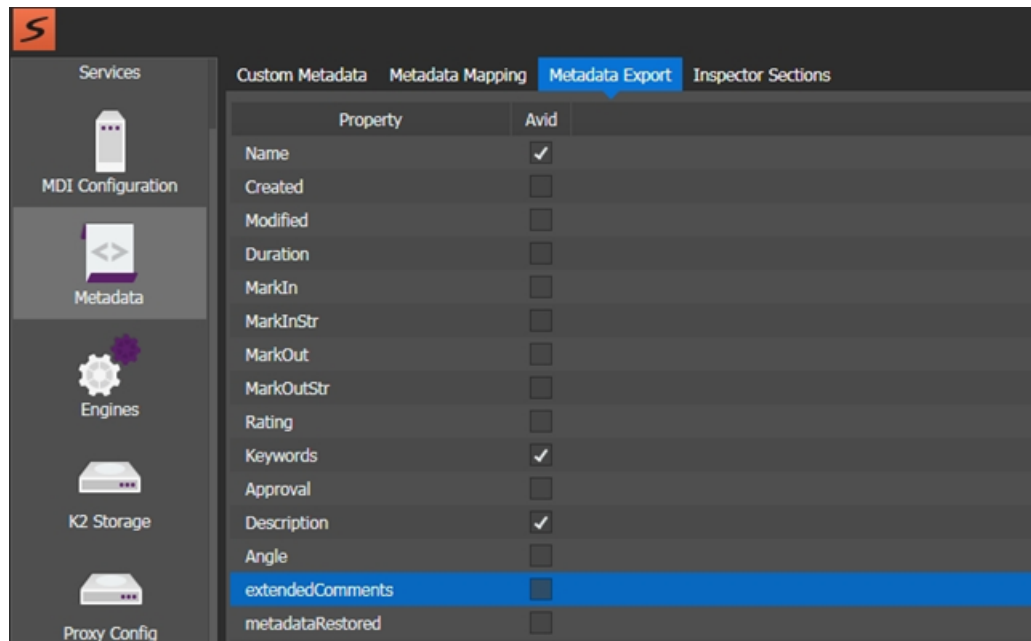
Apply Cancel

2. Configure as follows:

Setting or button	Description
Location Name	The name of the location, as it appears in the application. This can be any name, as appropriate for your workflow. This identifies the Avid Media Composer® workstation when sending assets to Avid in the GV STRATUS application.
Description	Your description of the location.
Source / Destination	Set to Destination .
Usable by	Set to Avid Media Composer .
Location Path	The UNC path to the <i>Avid MediaFiles\MXF</i> folder on the Avid Media Composer® workstation.
Audio mapping	<p>Specifies the audio track mapping of assets to be exported into Avid system. Assets with more than 24 audio tracks per asset need this audio mapping (applicable to Media Composer version below 8.5) to ensure the right audio tracks are transferred into Avid. To set the audio mapping profile, select one from the following:</p> <ul style="list-style-type: none"> • 24 Tracks - 1 to 1: The audio mapping profile with automatic 1 to 1 mapping of first 24 audio tracks of the asset. <i>NOTE: Silent tracks are generated in case there are less audio tracks available.</i> • 16 Tracks - Mix: The audio mapping profile with combination of 16 audio tracks that can be configured on the file level per project under “<i>C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\MEWS</i>”, usually on Core Server, with the NotePad. This profile is just an example and must be configured per system. • None: All audio tracks up to 24 tracks will be exported with the asset into Avid system. This is the default setting for assets with no more than 24 audio tracks.

3. Click **Apply**.4. To configure which GV STRATUS metadata fields are transferred, go to **Metadata | Metadata Export** in GV STRATUS Control Panel.

5. Select metadata fields under the **Avid** column that should be passed when assets are sent from GV STRATUS.



Related Topics

[Using the GV STRATUS application with Avid](#) on page 1017

Configure Avid ISIS send destinations

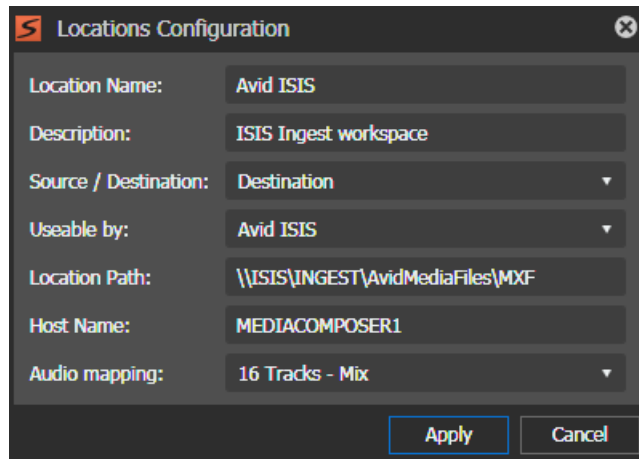
Only systems that send assets to Avid ISIS storage require this process.

- A separate server machine was configured and the MEWS software deployed by SiteConfig.
- A "STRATUS-XCODECONTROLMEWSEXT" or "STRATUS-XCODECONTROLMEWS" license is available.

- The Avid ISIS storage system must be installed and operational.

Configure a location as follows:

1. In GV STRATUS Control Panel, navigate to **General | Locations Config | Locations Configuration | Add**.



The screenshot shows a 'Locations Configuration' dialog box with the following fields and values:

Field	Value
Location Name:	Avid ISIS
Description:	ISIS Ingest workspace
Source / Destination:	Destination
Useable by:	Avid ISIS
Location Path:	\\ISIS\\INGEST\\AvidMediaFiles\\MXF
Host Name:	MEDIACOMPOSER1
Audio mapping:	16 Tracks - Mix

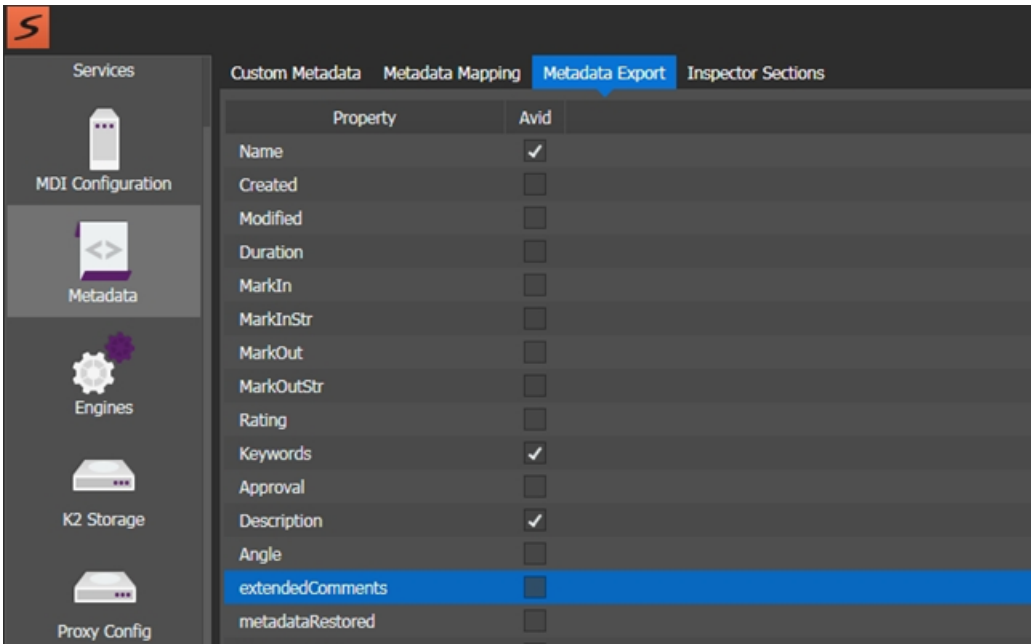
Buttons: Apply, Cancel

2. Configure as follows:

Setting or button	Description
Location Name	The name of the location, as it appears in the application. This can be any name, as appropriate for your workflow. This identifies the Avid ISIS storage when sending assets to Avid in the GV STRATUS application.
Description	Your description of the location.
Source / Destination	Set to Destination .
Usable by	Set to Avid ISIS .
Location Path	The UNC path to the <i>Avid MediaFiles\MXF</i> folder within the required workspace on the Avid ISIS storage.
Host Name	The host name of the Media Composer workstation that is going to use the content (drag and drop into Avid bin) from GV STRATUS.
Audio mapping	<p>Specifies the audio track mapping of assets to be exported into Avid system. Assets with more than 24 audio tracks per asset need this audio mapping (applicable to Media Composer version below 8.5) to ensure the right audio tracks are transferred into Avid. To set the audio mapping profile, select one from the following:</p> <ul style="list-style-type: none"> • 24 Tracks - 1 to 1: The audio mapping profile with automatic 1 to 1 mapping of first 24 audio tracks of the asset. <i>NOTE: Silent tracks are generated in case there are less audio tracks available.</i> • 16 Tracks - Mix: The audio mapping profile with combination of 16 audio tracks that can be configured on the file level per project under “<i>C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\MEWS</i>”, usually on Core Server, with the NotePad. This profile is just an example and must be configured per system. • None: All audio tracks up to 24 tracks will be exported with the asset into Avid system. This is the default setting for assets with no more than 24 audio tracks.

3. Click **Apply**.4. To configure which GV STRATUS metadata fields are transferred, go to **Metadata | Metadata Export** in GV STRATUS Control Panel.

- 5. Select metadata fields under the **Avid** column that should be passed when assets are sent from GV STRATUS.



Configure Avid Interplay send destinations

- Only systems that send assets to Avid Interplay require this process.
- A separate server machine was configured and the MEWS software deployed by SiteConfig.
 - A "STRATUS-XCODECONTROLMEWSEXT" or "STRATUS-XCODECONTROLMEWS" license is available.

- The Avid ISIS storage system must be installed and operational.

Configure a location as follows:

1. In GV STRATUS Control Panel, navigate to **General | Locations Config | Locations Configuration | Add**.

The screenshot shows a 'Locations Configuration' dialog box with the following fields and values:

Field	Value
Location Name:	Avid-Interplay
Description:	Avid Interplay
Source / Destination:	Destination
Useable by:	Avid Interplay
Location Path:	\\MQ-ISIS\GVG-Interplay\AvidMediaFiles\MXI
Interplay Folder:	//medway:medway2@IE1:8080/DEMOWG/Pr
Container Format:	AMT Atom
Audio mapping:	24 Tracks - 1 to 1

At the bottom right, there are two buttons: 'Apply' (highlighted with a blue border) and 'Cancel'.

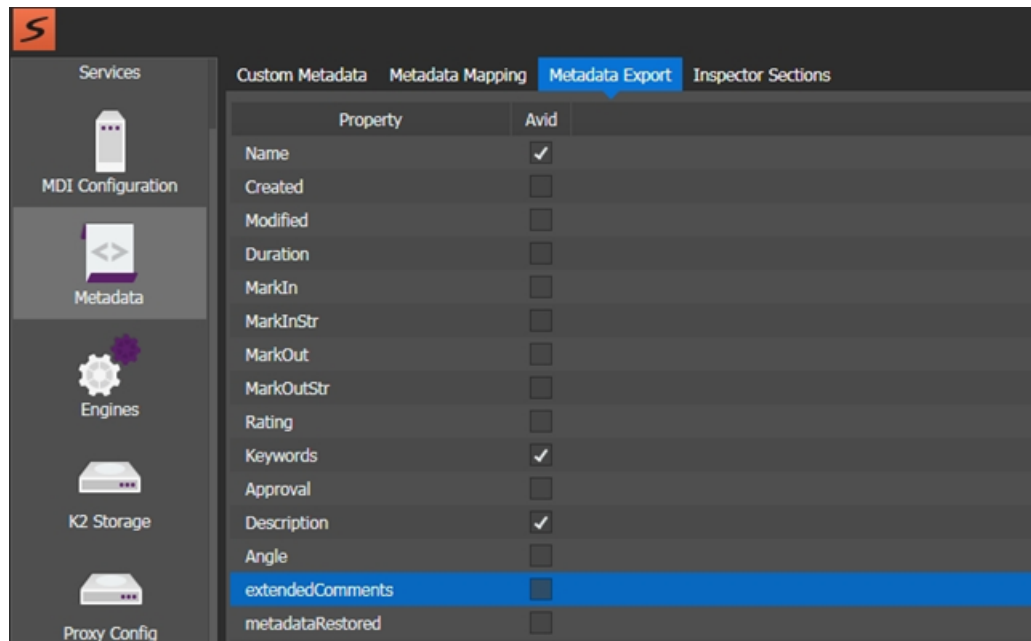
2. Configure as follows:

Setting or button	Description
Location Name	The name of the location, as it appears in the application. This can be any name, as appropriate for your workflow. This identifies the Avid Interplay system when sending assets to Avid in the GV STRATUS application.
Description	Your description of the location.
Source / Destination	Set to Destination .
Usable by	Set to Avid Interplay .
Location Path	The UNC path to the <i>Avid MediaFiles\MXF</i> folder within the required workspace on the Avid ISIS storage.
Interplay Folder	<p>The Interplay folder where the asset and corresponding metadata will be checked-in to Interplay. Use the following format:</p> <p><code>//user:password@webservices/InterplayWorgroup/folderlevel1/folderlevel</code></p> <p>For example:</p> <p><code>//mews:mewspw@avidws/InterplayWG/projects/FromStratus</code></p>
Container Format	<p>MEWS offers two container types when sending assets from GV STRATUS to Avid Interplay. Select one from the following:</p> <ul style="list-style-type: none"> • MEWS Atoms - do not support growing files. • AMT Atoms - support sending (opening and editing) growing files from K2 to Avid. Select this option if you intend to send K2 files to Avid Interplay while they're still recording. <p>NOTE: For assets transfers via <i>AMT Atoms</i>, markers must be named with valid Avid Interplay "user name" for markers to be successfully transferred into the Avid system.</p>

Setting or button	Description
Audio mapping	<p>Specifies the audio track mapping of assets to be exported into Avid system. Assets with more than 24 audio tracks per asset need this audio mapping (applicable to Media Composer version below 8.5) to ensure the right audio tracks are transferred into Avid. To set the audio mapping profile, select one from the following:</p> <ul style="list-style-type: none"> • 24 Tracks - 1 to 1: The audio mapping profile with automatic 1 to 1 mapping of first 24 audio tracks of the asset. <p>NOTE: Silent tracks are generated in case there are less audio tracks available.</p> <ul style="list-style-type: none"> • 16 Tracks - Mix: The audio mapping profile with combination of 16 audio tracks that can be configured on the file level per project under “C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\MEWS”, usually on Core Server, with the NotePad. This profile is just an example and must be configured per system. • None: All audio tracks up to 24 tracks will be exported with the asset into Avid system. This is the default setting for assets with no more than 24 audio tracks.

3. Click **Apply**.
4. To configure which GV STRATUS metadata fields are transferred to Interplay, go to **Metadata | Metadata Export** in GV STRATUS Control Panel.

5. Select metadata fields under the **Avid** column that should be passed to Interplay when assets are sent from GV STRATUS.



Adding the Transfer to Avid rule for automatic transfers into Avid ISIS / Interplay systems

GV STRATUS allows the automatic process of sending content from GV STRATUS / K2 systems to Avid Interplay / ISIS via a workflow rule.

- The MEWS system must be installed and operational.
- The MEWS system must be configured in GV STRATUS Control Panel Engines settings.

- The Avid ISIS storage system must be installed and operational.

Configure the rule as follows:

1. In GV STRATUS Control Panel, navigate to **General | Rules | Rule Editor | Add**.

Rules Monitor **Rule Editor**

Rule Type: Transfer to Avid

Name: GVRuleInterplay

Description: Rule Test with Interplay

Rule Options

- Execute rule only once per asset or segment
- Priority: Normal
- Apply rule on completed files
- ☒ Rename

Rule Notification

Send To:

Notification Type:

Scope

Add Location...

1 X SummitMDI-K2su-01:V:/defat ... ☐ Include Sul

Frequency

- ☒ Metadata Change
- ☐ Periodically
- ☐ Daily
- ☐ Weekly
- ☐ Monthly

Rule Conditions

Select items when: ALL of the conditions below are met

1 X Rating is ★★★★★

Add Condition...

Save Cancel

2. Configure the rule as follows:

Setting or button	Description
Rule Type	Select Transfer to Avid .
Name	Enter a rule name as it will appear in the Rules Monitor page.
Scope Add Location	Select the GV STRATUS bin to which the rule will apply, exporting assets from GV STRATUS to ISIS/Interplay.
Rule Conditions Add Condition	Choose the preferred criteria which will trigger the export. For example, if a custom metadata field has been created in GV STRATUS called “Send to Avid”, which when selected, will trigger the material transfer. In the example above, only when assets are set to a rating of 5 stars, the transfer rule is triggered.
Frequency	Select when the rule is triggered.
Destination	Select the previously configured Avid Interplay destination. In the example above, it would be called “AvidInterplay”.

3. Click **Save**.
4. Next, enable the rule.

Assets from GV STRATUS are transferred automatically according to the scope set up for the rule, to the pre-determined ISIS workspace and checked-in to the relevant Interplay folder.

Asset transfer jobs can be monitored in the Avid Transfer Monitor as well as on the GV STRATUS Asset Transfers Monitor.

Adding an Avid import rule

- The MEWS system must be installed and operational.

The GV STRATUS Rules Engine can watch a source location on one or more Avid Media Composer® workstations and when files arrive, import the Avid files to a location that is in the GV STRATUS system. The imported asset has a metadata field that specifies the source location from which it was imported.

Use a CIFS location for importing.

After the import operation, the Rules Engine changes the name of the original source file, adding a suffix that indicates success or failure. The Rules Engine periodically deletes files more than seven days old, as a housekeeping operation.

Create one import rule for each of your Avid Media Composer® workstations.

1. Log in to the GV STRATUS Control Panel application with administrator privileges.
2. In the GV STRATUS Control Panel application, click **General | Rules**.
3. Click **Add**.
Rule Editor settings open.
4. In the **Rule Type** drop-down list select **Import**.
5. In the **Name** field type in a name for the rule you are configuring. Create a name that identifies the Avid Media Composer® workstation to which this rule applies.

6. In the **Description** field type in a description for the rule you are configuring.
7. In **Rule Options** settings, specify the rule behavior.

▼ Rule Options

Priority: Normal ▼

☒ Rename ☐ Overwrite

- a) Select the priority that the Rules Engine processes the rule, with the transfers and transcodes the rule controls, when there are multiple rules in a queue waiting to be processed.
 - **Priority: High:** Put this rule in a queue with other high priority rules and process through the high priority rule queue before any normal priority or low priority rules.
 - **Priority: Normal:** Put this rule in a queue with other normal priority rules and process through the normal priority rule queue after any high priority but before any low priority rules.
 - **Priority: Low:** Put this rule in a queue with other low priority rules and process through the low priority rule queue after any high priority or medium priority rules.
 - b) If an asset of the same name already exists at the destination location, configure the rule behavior as follows:
 - **Rename:** A suffix is appended to the imported asset name. The existing asset is retained.
8. In **Rule Notification** settings, specify the notification behavior, if desired.

▼ Rule Notification

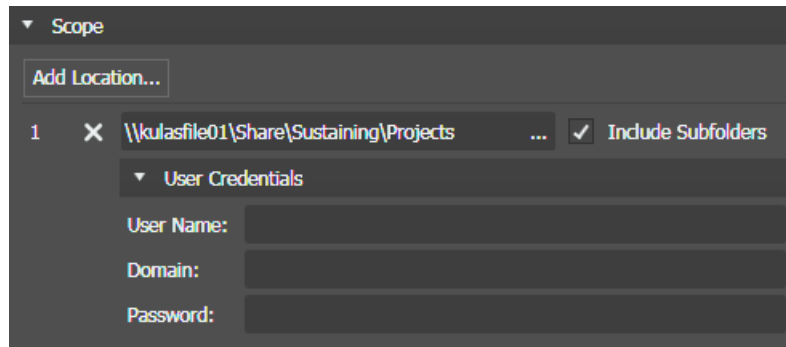
Send To jku@mysite.com, jj@mysite.com

Notification Type Delivery Failed ▼

- a) Enter email addresses to which emails are sent.
Separate multiple email addresses with a comma.
- b) Select one or more notification types:
 - **Delivery Failed:** Emails are sent if the rule operation fails.
 - **Delivery Completed:** Emails are sent if the rule operation succeeds.

In order to send emails, the email server must be configured in Workflow Engine settings.

9. In **Scope** settings, specify the source location or locations the rule watches.



- a) Click **Add location**.

The **Location Selection** dialog box opens.

- b) Enter the UNC path as follows:

`<Avid Media Composer PC name or IP>\Avid MediaFiles\Export`

If using a name, it must be resolvable to an IP address via a host file.

This is the location that contains the files on which the rule operates. Every time the rule runs, it looks in this location to determine if there are any new files that match the rule conditions and then operates on the files that match.

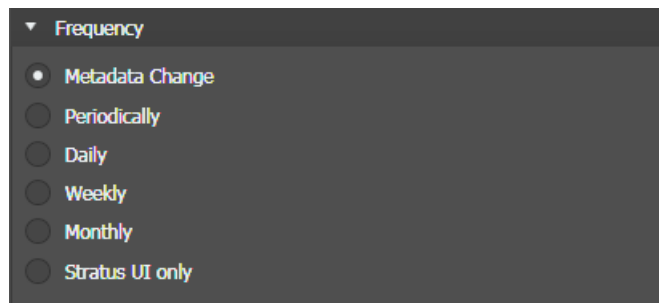
- c) Click **OK**.

The location is added to the **Scope** list.

- d) For a location in the list, do not select **Include Subfolders**.

10. Configure **User Credentials** as required for the source locations.

11. In **Frequency** settings, specify how often the Rules Engine triggers the rule.



- a) Select the following option:

- **Metadata Change**: The rule is constantly monitoring assets in the "Scope" location.

12. In **Import Options** settings, configure the format of the imported assets.

- a) For **Transcode Format**, select **<As Source>**.

If you have the STRATUS-XCODECONTROLMEWS license, you can select any transcode format listed under MEWS Formats in the drop-down list.

- b) For **Metadata Format**, select as follows:

- **None**: No metadata is imported.

- c) For **Options**, select as follows:

- **Create new Asset**: A GV STRATUS asset is created for the imported material. If metadata only is imported, a metadata-only asset is created. This is not applicable for Avid imports.
- **Update Asset Metadata**: The imported metadata updates the metadata and essence of an existing asset. This is not applicable for Avid imports.

- d) For **Avid Server Type**, select as follows:

- **Media Composer**: If the import is from Avid Media Composer workstations.
- **Isis**: If the import is from Avid ISIS storage system.

- e) For **Audio Mapping** of the imported asset, select as follows:

- **8 Tracks - Mix Back**: The combination of 8 audio tracks configured to be imported with the asset. This profile is just an example and must be configured per system on the file level under “C:\Program Files\Grass Valley\STRATUS Transcode Engine\Profiles\MEWS”, usually on Core Server, with the NotePad.

- **24 Tracks - 1 to 1**: The automatic 1 to 1 mapping from the 24 audio tracks of the asset.

NOTE: Silent tracks are generated in case there are less audio tracks available.

- **None**: All audio tracks will be imported with the asset. This is the default setting for assets with no more than 24 audio tracks.

13. In **Destination** settings, specify a location in the GV STRATUS system.

The destination must be a location in the GV STRATUS system. This is a location that is in the GV STRATUS application Navigator panel under the Locations node.

14. In **Rule Conditions** settings, specify the conditions the Rules Engine looks for to qualify an asset.

15. In the **Select items when** drop down list, select **ALL of the conditions below are met**.

16. Configure conditions as follows:

1	Extension	is AAF
---	-----------	--------

- a) Click the **Add Condition** button and select from lists to define the condition.
- b) Type AAF in the value field.

17. Click **Save**.

Next, enable the rule.

Related Topics

[Using the GV STRATUS application with Avid](#) on page 1017

Configure folders on the Avid workstation

1. On each Avid workstation, create the following folder at the root of the *C:* drive:
 - *Avid MediaFiles*
2. Share the *Avid MediaFiles* folder to Everyone with full access.
3. Create the following subfolders in the *Avid MediaFiles* folder:
 - *MXF*
 - *Export*

Create Avid Send To option for GV STRATUS

1. In Avid Media Composer, select any sequence and click **File | Send To | Make New**.
The **Send To: Make New** dialog box opens.
2. Set **Destination** to *C:\Avid MediaFiles\Export*
3. Select **Export Setting 1**
4. From the **Export Setting 1** drop-down list, select **Untitled**.
5. Click **Options**.
The **Export Settings** dialog box opens.
6. From the **Export As** drop-down list, select **AAF**.
7. Select **Video / Data Details**.
 - a) Verify that **Export Method** is set to **Link to (Don't Export) Media**.
 - b) Select **Render Video Effects**.
 - c) Select **Transcode Video To** and from the drop-down list select the desired K2 compatible export format and codec.
 - d) Leave other settings at default values.
8. Select **Audio Details**.
 - a) Verify that **Export Method** is set to **Link to (Don't Export) Media**.
 - b) Select **Include Rendered Audio Effects**.
 - c) Select **Render all Audio Effects**.
 - d) Leave other settings at default values.

9. Click **Save As**, enter an appropriate name, such as GV STRATUS and click **OK**.
10. On the **Send To: Make New** dialog box, click **Save As Template**.
The **Save As** dialog box opens.
11. Name the file GV STRATUS and click **Save**.

The **GV STRATUS** option now appears in the **Send To** menu.

Avid/MEWS considerations

- GV STRATUS supports operation with multiple MEWS engines running on separate servers. Each MEWS engine supports up to 3 concurrent transcode jobs at a time.
- To ensure the MEWS Service machine(s) are correctly configured and the required license exists, you should check whether the resources provided per MEWS Service are registered in the GV STRATUS Control Panel via **Core | Resource Management | Resource Monitor**. The status of the MEWS license and MEWS Server machine should be **Online** on the Resource Monitor. Below are corresponding display of both MEWS licenses in SabreTooth and the Resource Monitor:

SabreTooth MEWS Licenses	SubResource Provider in Resource Monitor
STRATUS-XCODECONTROLMEWSEXT	MEWS
STRATUS-XCODECONTROLMEWS	MEWS-ELITE

- When editing HD material you must use an HD project. When editing SD material you must use an SD project.
- The GV STRATUS rule that imports an Avid sequence must use a transcode format that matches the Avid Media Composer Project window Format settings. If transcoding, an HD project must use an HD transcode format and an SD project must use an SD transcode format. If not transcoding, select **As Source**.
- The Avid sequence can be of mixed codecs but they must be the same definition/standard.
- Assets transferred from GV STRATUS to Avid via MEWS retain GV STRATUS markers and keywords.
 - In Avid Media Composer, a GV STRATUS marker displays a red indicator and a GV STRATUS keyword displays a yellow indicator.
 - When transferred as AMT-Atom container, GV STRATUS Marker and Keyword names will be replaced by a valid Avid user name so that they can be imported into Avid. The original names will be added to the Avid *Comment field* together with the GV STRATUS description metadata, semicolon separated. The user name is extracted from the Location configuration in GV STRATUS Control Panel in the *Interplay Folder*.
 - Markers are only transferred if they exist in GV STRATUS before the transfer was initiated.
 - When transferring a still recording asset, markers will not display in the Avid system. Markers will only display if the clip is loaded into the Avid Media Composer after recording is stopped and the transfer is complete.
 - If the asset is already in the Avid Media Composer project bin, a refresh is required. In the context menu, select **Interplay | Update from Interplay** to refresh.
- Asset metadata are automatically transferred into Avid if configured in the **Metadata Export** tab of GV STRATUS Control Panel. Metadata fields can be selected under the Avid column, and automatically transferred when assets are sent from GV STRATUS.

- For a standalone Avid Media Composer workstation, configure Media Composer as follows:
 - In Media Creation settings, on every tab set **Video Drive** and **Audio Drive** to the **c:** drive.
 - In Export Settings, set **Export As** to **AAF** and for both **Video/Data Details** and **Audio Details**, do the following:
 - Set **Export Method** to **Consolidate Media**.
 - Set all Media Destinations to **Media Drive** and select **Use Media Creation Settings**.
- For a system with AVID ISIS, do the following:
 - Install Avid ISIS Client Manager on the following
 - The machine where the XCode Control Engine is running
 - The machine where MEWS is running
 - Every Avid Media Composer workstation
 - Configure Avid ISIS Client Manager as follows:
 - Map a drive, such as drive **z:**, to the ISIS share.
 - Configure the user to the internal system account, which by default is GVAdmin
- For an AVID ISIS Media Composer workstation, configure Media Composer as follows:
 - In Media Creation settings, on every tab set **Video Drive** and **Audio Drive** to the drive letter, such as drive **z:**, mapped to ISIS.
 - In Export Settings, set **Export As** to **AAF** and for both **Video/Data Details** and **Audio Details**, do the following:
 - Set **Export As** to **AAF**.
 - Set **Export Method** to **Link to (Don't Export) Media**.
 - Set all Media Destinations to **Media Drive**.
- Configure GV STRATUS as follows:
 - The GV STRATUS Xcode Control Engine Service and the MEWS Service must be installed to use the internal system account, which by default is GVAdmin.
 - In GV STRATUS Control Panel Locations Configuration settings, **Location Path** must point to the **\MXF** subfolder on Avid ISIS and **Host Name** must point to the hostname of the Avid Media Composer workstation.
 - Create an Import Rule Watchfolder, which is a share that can be accessed by the Rules Engine and the Avid Media Composer workstations.
 - Create an Import Rule as follows:
 - Source: The Import Rule Watchfolder
 - Destination: K2 folder
 - Transcode Format: a MEWS format that matches the Avid project.
 - Avid Server Type: Isis
 - Avid Media Host: The Isis server name
 - Set Rule Conditions to trigger on .aaf file extension

Refer to Avid Media Composer product documentation for more information.

Related Topics

[SabreTooth MEWS license process](#) on page 544

[Resource Management settings](#) on page 296

Configure iNews for Monitor On

The iNews system must be installed and operational.

1. In the SYSTEM.MOS-MAP configuration, verify or configure according to the following example:

```
TABLE-START DeviceTable
CAMIO      moscg      A B C D
stratusuk  vidmos
TABLE-END
```

2. In the SYSTEM.MAP configuration, verify that the MOS reference for video is on the first line according to the following example:

```
rundowns.bulletins.test      rundowns.bulletins.test      -
                                monitor      1505
mossvr      uk004      -      mct-cg
mos          vidmos      UPDATE      -
mos          moscg      -      storytext
```

If the MOS reference for video is on the second line, the status is not reported.

3. In the story form and the rundown queue form, add the following fields:

Options	Description
Current field: Label	MOS TITLE
Current field: Label size	mos-title
Current field: Type	10
Current field: Edit size	15
Attributes: Read-Only	Selected
Attributes: Affects Ready	Selected
Attributes: Write Group	!<none>
Type: Editbox	Selected
Options	Description
Current field: Label	MOS DUR
Current field: Label size	mos-duration
Current field: Type	7
Current field: Edit size	7
Attributes: Read-Only	Cleared
Attributes: Affects Ready	Selected
Attributes: Write Group	!<none>
Type: Duration Control	Selected
Options	Description
Current field: Label	MOS
Current field: Label size	mos-active
Current field: Type	5
Current field: Edit size	16
Attributes: Read-Only	Selected
Attributes: Affects Ready	Cleared
Attributes: Write Group	!<none>
Type: Editbox	Selected
Options	Description
Current field: Label	Event Status
Current field: Label size	event-status
Current field: Type	10

Options	Description
Current field: Edit size	9
Attributes: Read-Only	Cleared
Attributes: Affects Ready	Cleared
Attributes: Write Group	!<none>
Type: Editbox	Selected

4. Copy the MOS objects into the rundown.

Status is displayed.

Configuring custom metadata for House Number List

For the integration between traffic system and the House Number List, you need to add below custom fields manually in the Metadata settings of GV STRATUS Control Panel application.

If GV STRATUS security is enforced, your credentials must give you read and write permissions for all 5 custom metadata fields below:

Field name	Type
House Number	Text - 256 Characters
Program	Boolean
Content Name	Text - 256 Characters
Content Description	Text - 256 Characters
Content Type	Text - 256 Characters

Related Topics

[Custom Metadata settings](#) on page 267

Database planning and maintenance strategies

The topics in this section help you establish a plan in the event a GV STRATUS system fails.

Core Services server failure considerations

The GV STRATUS Core server must have a database maintenance plan in place. The maintenance plan backs up the SQL database on a regular basis and stores it in a safe location. In the case of server failure the database can then be restored to minimize data loss.

If the SQL Server Agent service is ever stopped, so is your maintenance plan. Make sure that the service is set to start automatically.

A Fault Tolerant (FT) server is available from Grass Valley to further protect the integrity of the system.

Logging in to Microsoft SQL Server Management Studio

If directed by a documented procedure or by Grass Valley Support, you can view and make SQL database settings in Microsoft SQL Server Management Studio.

1. Make sure you are logged in to the database host system with Administrator privileges.
2. Open the Windows operating system Services control panel and verify that the SQL Server Agent service startup type is set to automatic and that it is started.
3. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.
Microsoft SQL Server Management Studio opens.
4. Log on and connect to your SQL Server as follows:
 - **Server type:** Database Engine
 - **Server name:** (local)
 - **Authentication:** Windows Authentication
5. Identify the databases that are a part of the GV STRATUS system, which include the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
 - WfPersistence

Setting the SQL server memory limit

The SQL server depends on memory to cache information from databases on disk for fast access. If more data exists on disk than can be held in memory, the SQL server performance will degrade.

To avoid low memory issues on the GV STRATUS Core server, the memory that should be assigned to SQL server depends on the memory size of the physical device.

Grass Valley recommends the setting of SQL server memory limit according to the table below:

Physical Memory	SQL server memory limit	Approximate number of assets supported
12 GB	5120 MB	200,000 – 350,000
16 GB	8192 MB	320,000 – 560,000
32 GB	18,432 MB	720,000 – 1,260,000
48 GB	32,768 MB	1,280,000 – 2,240,000
64 GB	47,104 MB	1,900,000 – 3,360,000

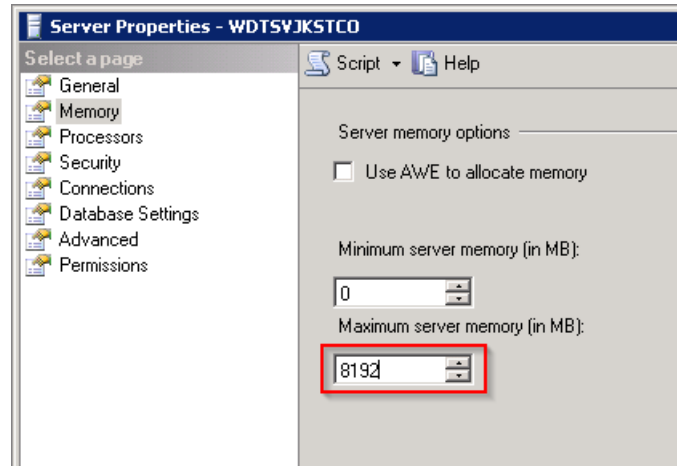
Set the SQL server memory limit as follows:

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.
Microsoft SQL Server Management Studio opens.

2. Log on as Administrator.
3. Right-click on the SQL server name and select **Properties** from the context menu.
The **Server Properties** dialog opens.

4. Click **Memory**.

The Memory page opens.



5. In the **Maximum server memory** setting, enter your SQL server memory limit in MB.
6. Click **OK**.

A restart of the server is not necessary, but recommended.

Next, disable the Auto Close feature for Ingest Database.

Disabling the Auto Close feature in Ingest Database

This is only required for an upgrade of the Ingest database.

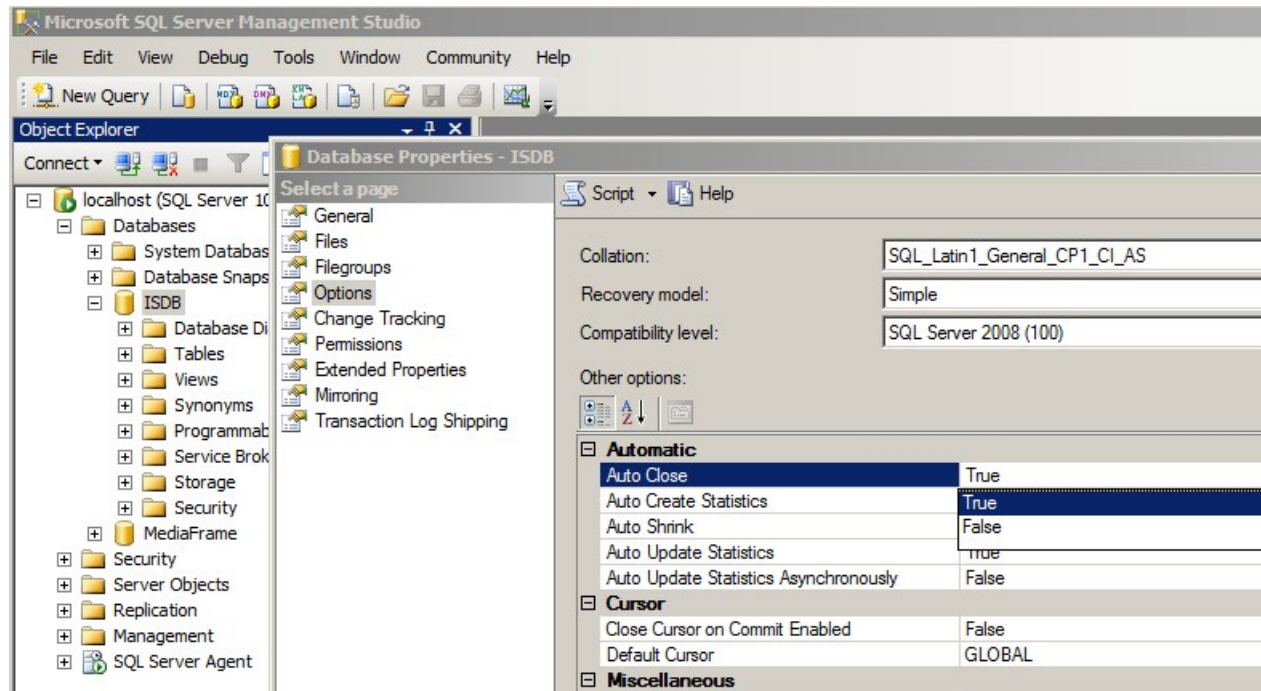
It is not required on a newly installed Ingest database since it will be set automatically during installation.

The Auto Close feature must be disabled to prevent the Ingest database from going offline automatically.

1. Open and log in to Microsoft SQL Server Management Studio.
2. Go to **Databases** and select **ISDB**.

3. Right-click on **ISDB** and select **Properties**.

The **Database Properties - ISDB** window opens.



4. Select the **Options** page.
5. In the **Automatic** section, select **Auto Close** and set the value to **False**.
6. Click **OK**.

The Auto Close feature for Ingest Database is disabled.

Creating the GV STRATUS maintenance plan

Maintenance plans automate database tasks necessary to ensure database integrity and recovery in case of data loss.

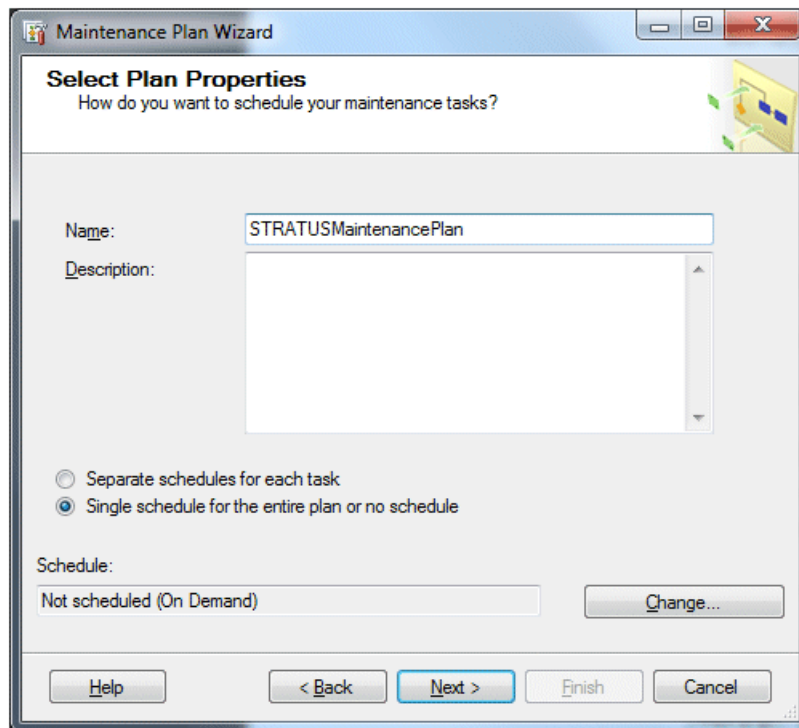
Grass Valley recommends that the database backup location be network storage, preferably one that is backed up or has some kind of RAID protection. If the database is backed up to a network share, the account under which SQL Server (MSSQLSERVER) and SQL Server Agent (MSSQLSERVER) run must have permission to write to the network share. If these services are running a virtual Network Service or NT Service\MSSQLSERVER account, then the network share must have permission for the computer account (e.g., *yourDomain\StratusCoreServer\$*).

To create or manage maintenance plans, you must log in as a member of the sysadmin fixed server role.

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view, open the **Management | Maintenance Plans** nodes.
3. Right-click the **Maintenance Plans** node and select **Maintenance Plan Wizard**.

The Maintenance Plan Wizard opens.

4. On the Maintenance Plan Wizard, click **Next**.
The Select Plan Properties page opens.



The screenshot shows the 'Maintenance Plan Wizard' window, specifically the 'Select Plan Properties' step. The window title is 'Maintenance Plan Wizard'. The main heading is 'Select Plan Properties' with the subtitle 'How do you want to schedule your maintenance tasks?'. There is a small icon of a folder with arrows in the top right corner. The 'Name' field contains 'STRATUSMaintenancePlan'. The 'Description' field is empty. There are two radio button options: 'Separate schedules for each task' (unselected) and 'Single schedule for the entire plan or no schedule' (selected). The 'Schedule' dropdown menu is set to 'Not scheduled (On Demand)', with a 'Change...' button next to it. At the bottom, there are five buttons: 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

5. On the Select Plan Properties page do the following:
 - a) In the Name field, type `StratusMaintenancePlan`.
 - b) Select **Single schedule for the entire plan or no schedule**

6. Click **Change**.

The Job Schedule Properties dialog box opens.

The screenshot shows the 'Job Schedule Properties - MaintenancePlan' dialog box. The 'Name' field is 'MaintenancePlan'. The 'Schedule type' is set to 'Recurring' and is 'Enabled'. The 'One-time occurrence' section shows a date of '5/ 9/2012' and a time of '4:24:51 PM'. The 'Frequency' section shows 'Occurs' set to 'Daily' and 'Recurs every' set to '1 day(s)'. The 'Daily frequency' section has 'Occurs once at' selected with a time of '2:00:00 AM'. The 'Starting at' is '12:00:00 AM' and 'Ending at' is '11:59:59 PM'. The 'Duration' section shows 'Start date' as '5/ 9/2012' and 'No end date' selected. The 'Summary' section contains a description: 'Occurs every day at 2:00:00 AM. Schedule will be used starting on 5/9/2012.' At the bottom are 'OK', 'Cancel', and 'Help' buttons.

7. In the **Frequency** section do the following:

- In the **Occurs** drop-down list select **Daily**.
- Set **Recurs every**: to 1 day.

8. In the **Daily frequency** section do the following:

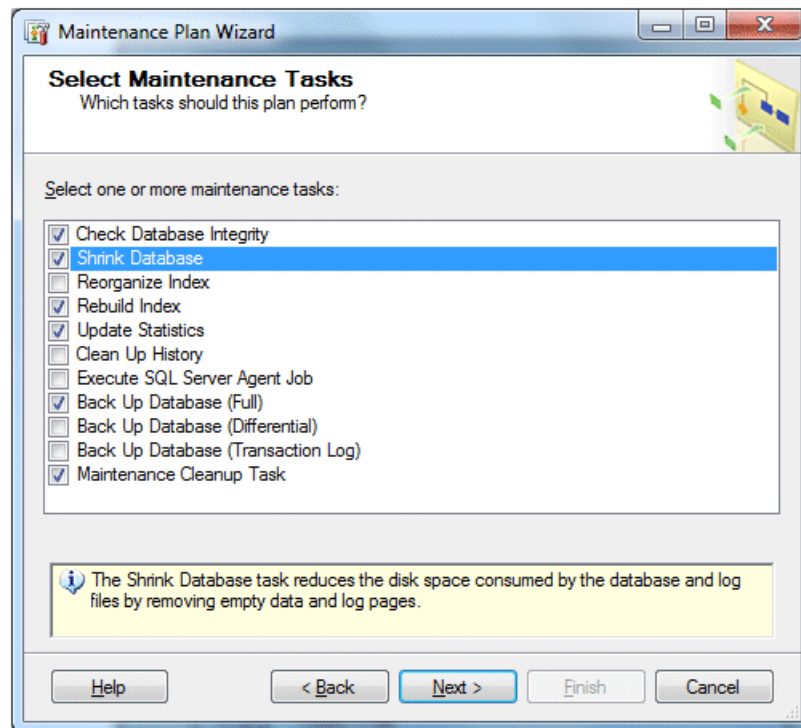
- Select **Occurs once at**:
- Accept the default time of **12:00:00 AM** or change it to a time more suitable to your site.

9. In the **Duration** section, verify the following:

- Start Date** is today's date.
- No end date** is selected.

10. Click **OK** and **Next**.

The Select Maintenance Tasks page opens.



11. Select the following:

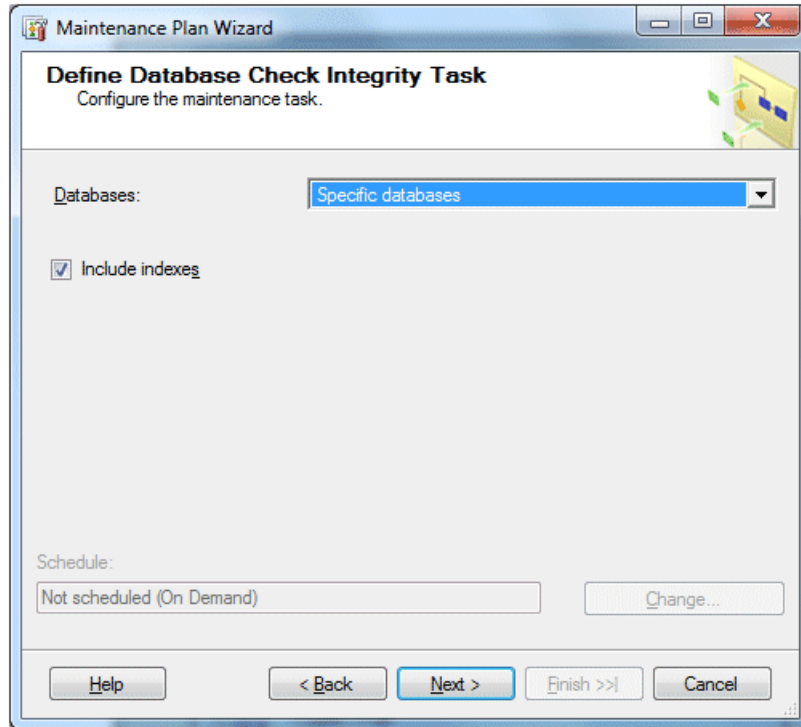
- Check Database integrity
- Shrink Database
- Rebuild Index
- Update Statistics
- Back Up Database (Full)
- Maintenance Cleanup Task

12. Click **Next**.

The Select Maintenance Task Order page opens.

13. On the Select Maintenance Task Order page, leave settings at the default configuration. Click **Next**.

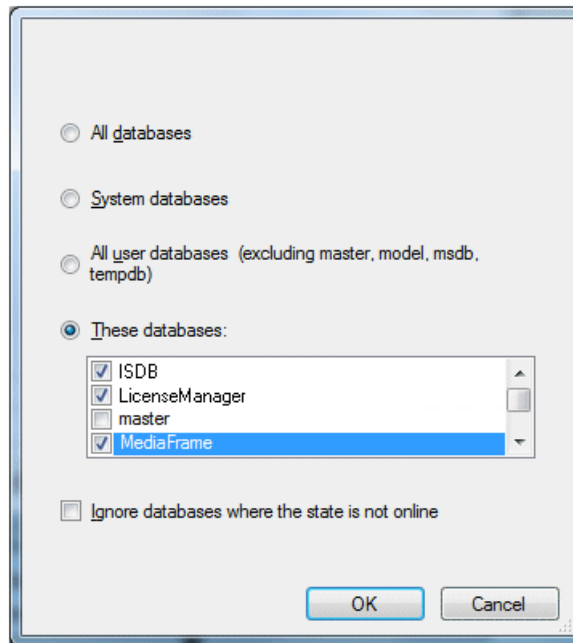
The Define Database Check Integrity Task page opens.



14. On the Define Database Check Integrity Task page, do the following:

a) Click the **Databases** drop-down list.

A dialog box opens.



b) Select **These databases** and select the following from the list:

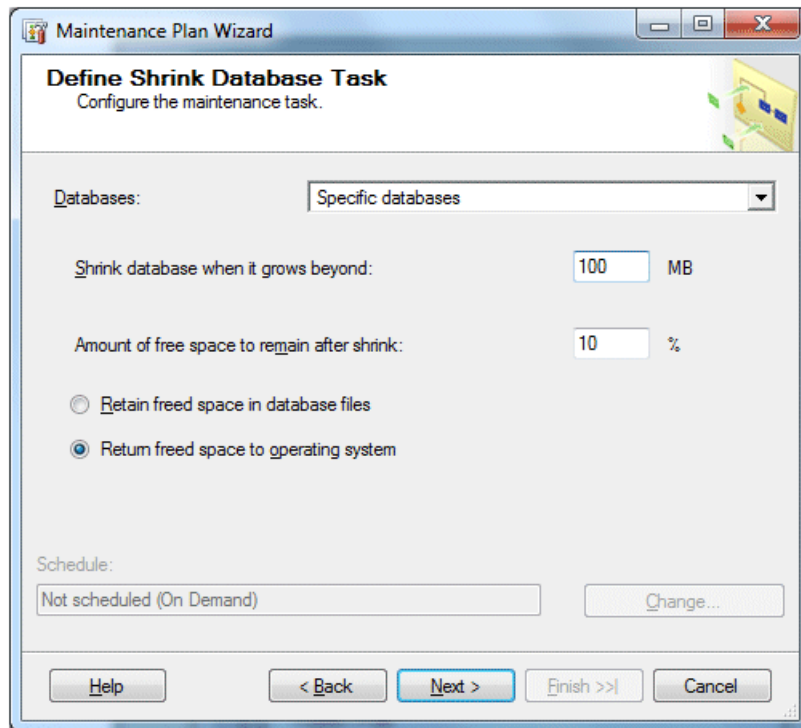
- ISDB
- MediaFlow
- MediaFrame
- RulesEngine

c) Click **OK** to save settings and close the dialog box.

d) On the Define Database Check Integrity Task page, select **Include indexes**.

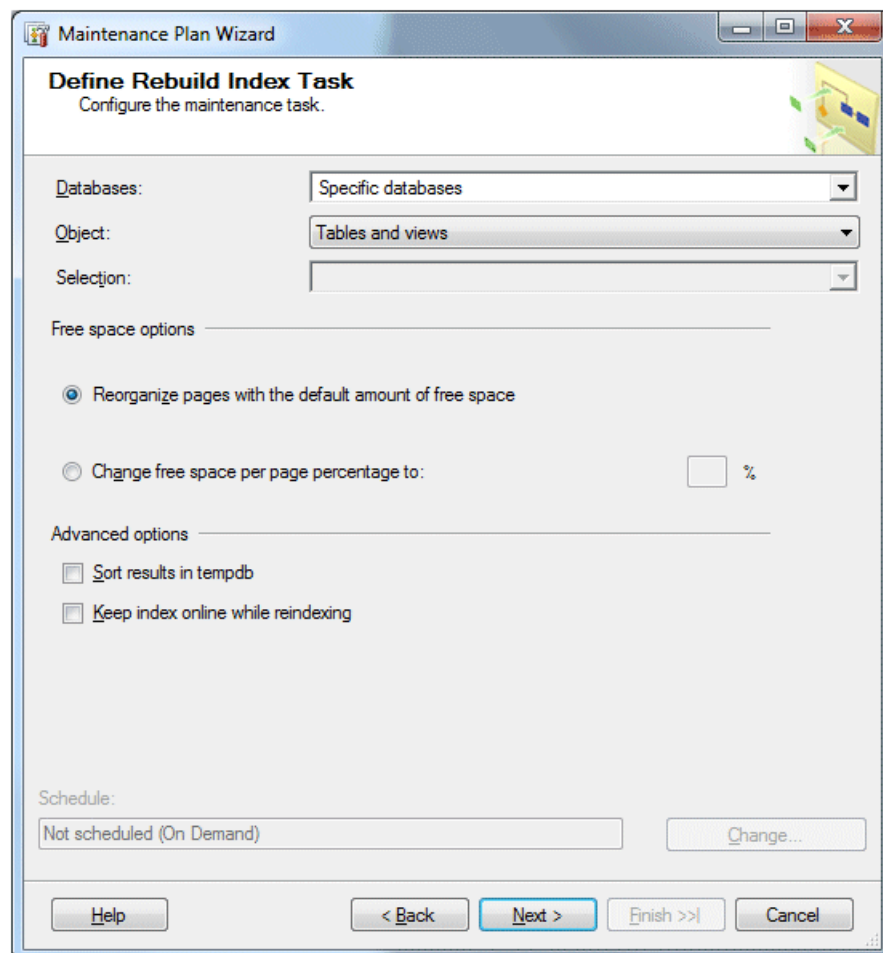
e) Click **Next**.

The Define Shrink Database Task page opens.

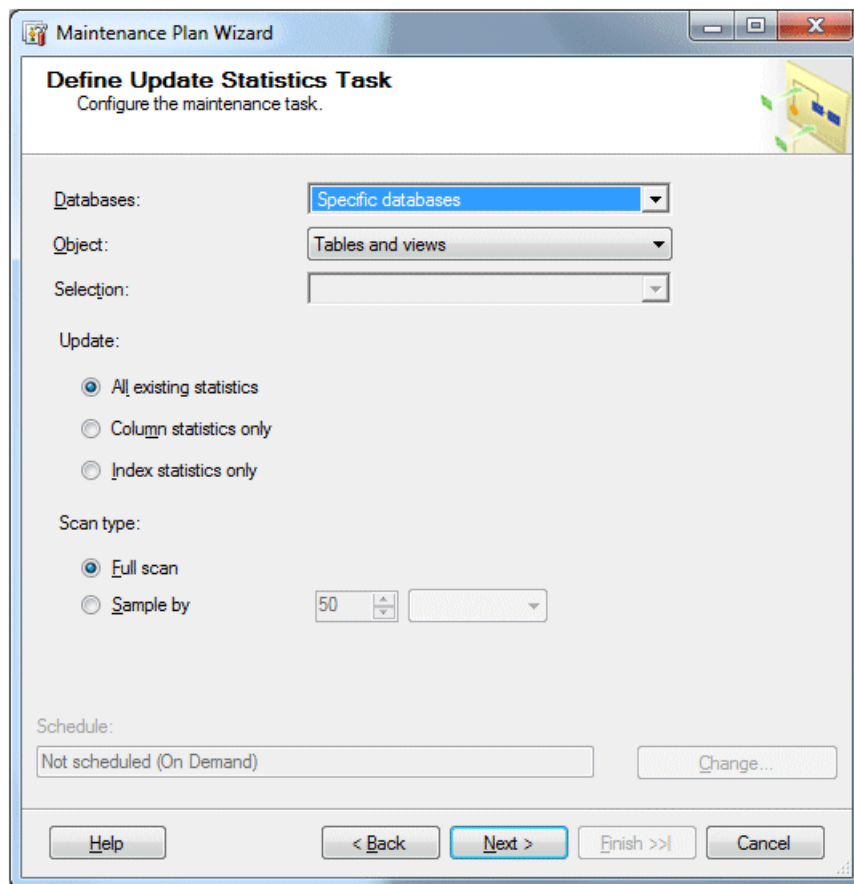


15. On the Define Shrink Database Task page, do the following:
 - a) Click the **Databases** drop-down list, and select the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
 - b) Click **OK**.
 - c) Set **Shrink database when it grows beyond:** to **100 MB**.
Leave other settings at the default configuration.
 - d) Click **Next**.

The Define Rebuild Index Task page opens.



16. On the Define Rebuild Index Task page, do the following:
 - a) Click the **Databases** drop-down list, and select the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
 - b) Click **OK**.
Leave other settings at the default configuration.
 - c) Click **Next**.
The Define Update Statistics Task page opens.



17. On the Define Update Statistics Task page, do the following:
 - a) Click the **Databases** drop-down list, and select the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
 - b) Click **OK**.
Leave other settings at the default configuration.
 - c) Click **Next**.
- The Define Back Up Database (Full) Task page opens.

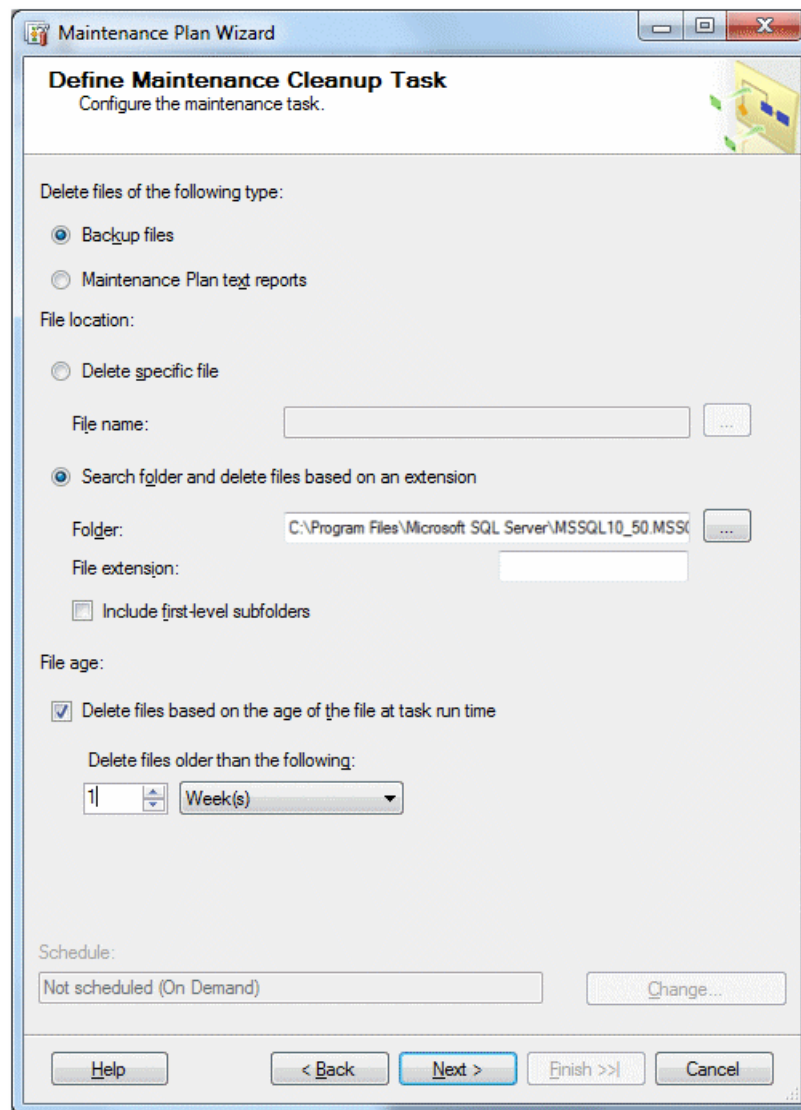
The screenshot shows the 'Maintenance Plan Wizard' window, specifically the 'Define Back Up Database (Full) Task' step. The window title is 'Maintenance Plan Wizard' and the subtitle is 'Define Back Up Database (Full) Task'. The main instruction is 'Configure the maintenance task.'.

The configuration options are as follows:

- Backup type:** Full
- Databases(s):** Specific databases
- Backup component:**
 - ☒ Database
 - ☐ Files and filegroups:
- ☒ Backup set will expire:
 - ☒ After: 14 days
 - ☐ On: 5/23/2012
- Back up to:**
 - ☒ Disk
 - ☐ Tape
- ☐ Back up databases across one or more files:
 - Empty list box with buttons: Add..., Remove, Contents
- If backup files exist:** Append
- ☒ Create a backup file for every database
 - ☐ Create a sub-directory for each database
 - Folder:** C:\Program Files\Microsoft SQL Server\MSSQL10_50\MSSQLS
 - Backup file extension:** bak
- ☐ Verify backup integrity
- ☐ Back up the tail of the log, and leave the database in the restoring state
- Set backup compression:** Use the default server setting
- Schedule:** Not scheduled (On Demand) with a Change... button

At the bottom, there are navigation buttons: Help, < Back, Next > (highlighted), Finish >>, and Cancel.

18. On the Define Back Up Database (Full) Task page, do the following:
 - a) Click the **Databases** drop-down list, and select the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
 - b) Click **OK**.
 - c) Select **Create a backup file for every database**.
 - d) In the **Folder** field, enter the path to your site's database backup location.
Copy the folder path so you can paste it on the next page.
 - e) In the **Backup file extension** field, enter **bak** as the file extension.
Leave other settings at the default configuration.
 - f) Click **Next**.The Define Maintenance Cleanup Task page opens.



19. On the Define Maintenance Cleanup Task page, do the following:

- a) In the **File location** section, select **Search folder and delete files based on an extension**.
- b) In the **Folder** field, paste the path of your site's database backup location that you copied earlier.
- c) In the **File extension** field, leave it blank.
: Do not enter .bak as it prevents files from getting automatically deleted and quickly fills up the core's C: drive without warning.
- d) In the **File age** section, select **Delete files based on the age of the file at task run time**.
- e) Set **Delete files older than the following**: to 1 week.
 Leave other settings at the default configuration.
- f) Click **Next**.

The Select Report Options page opens.

20. On the Select Report Options page, leave settings at the default configuration. Click **Next**.
The Complete the Wizard page opens.

21. On the Complete the Wizard page, click **Finish**.
The Maintenance Plan Wizard Progress page opens and reports progress.

22. When the page reports success for all actions, click **Close**.

The GV STRATUS maintenance plan is created.

Before continuing with other database maintenance plan operations, close and re-open Microsoft SQL Server Management Studio.

Next, verify the database maintenance plan status.

Verifying the database maintenance plan status

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view, open the **Management | Maintenance Plans** nodes.
3. Right-click on a plan and select **View History**.
The Log File Viewer window opens.
4. View the status report.

If an error occurs, it is likely that the SQL Server Agent is not started. Start the service and start over.

Testing the backup

Before doing this task, verify that logging is turned off for IIS.

Database performance can be downgraded while this test is in progress, but the database remains operational during the test.

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view, open the **Management | Maintenance Plans** nodes.
3. Right-click on a plan and select **Execute**.
the Execute Maintenance Plan dialog box opens and reports progress.
4. To check for errors, view the history.

Modifying the maintenance plan backup location

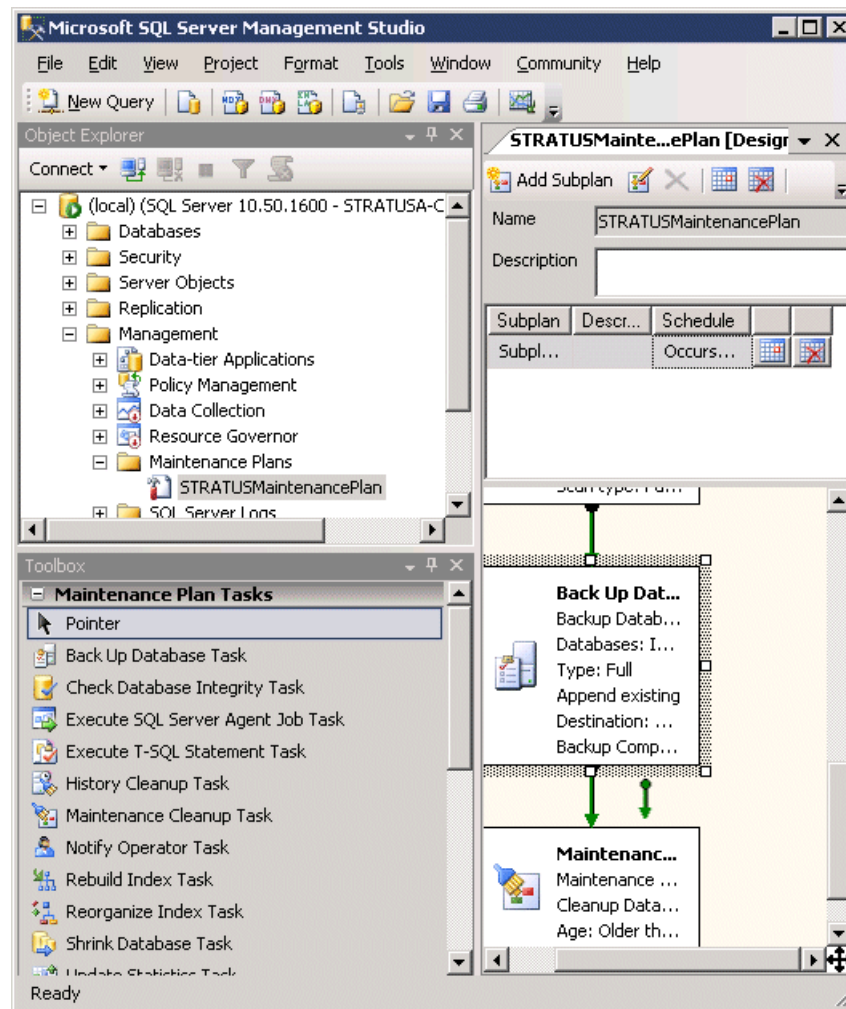
Maintenance plans automate database tasks necessary to ensure database integrity and recovery in case of data loss.

Grass Valley recommends that the database backup location be network storage, preferably one that is backed up or has some kind of RAID protection. If the database is backed up to a network share, the account under which SQL Server (MSSQLSERVER) and SQL Server Agent (MSSQLSERVER) run must have permission to write to the network share. If these services are running a virtual Network Service or NT Service\MSSQLSERVER account, then the network share must have permission for the computer account (e.g., *yourDomain\StratusCoreServer\$*).

To create or manage maintenance plans, you must log in as a member of the sysadmin fixed server role.

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view, open the **Management | Maintenance Plans** nodes.
3. Right-click the plan, and click **Modify**.

A Plan Design panel opens.



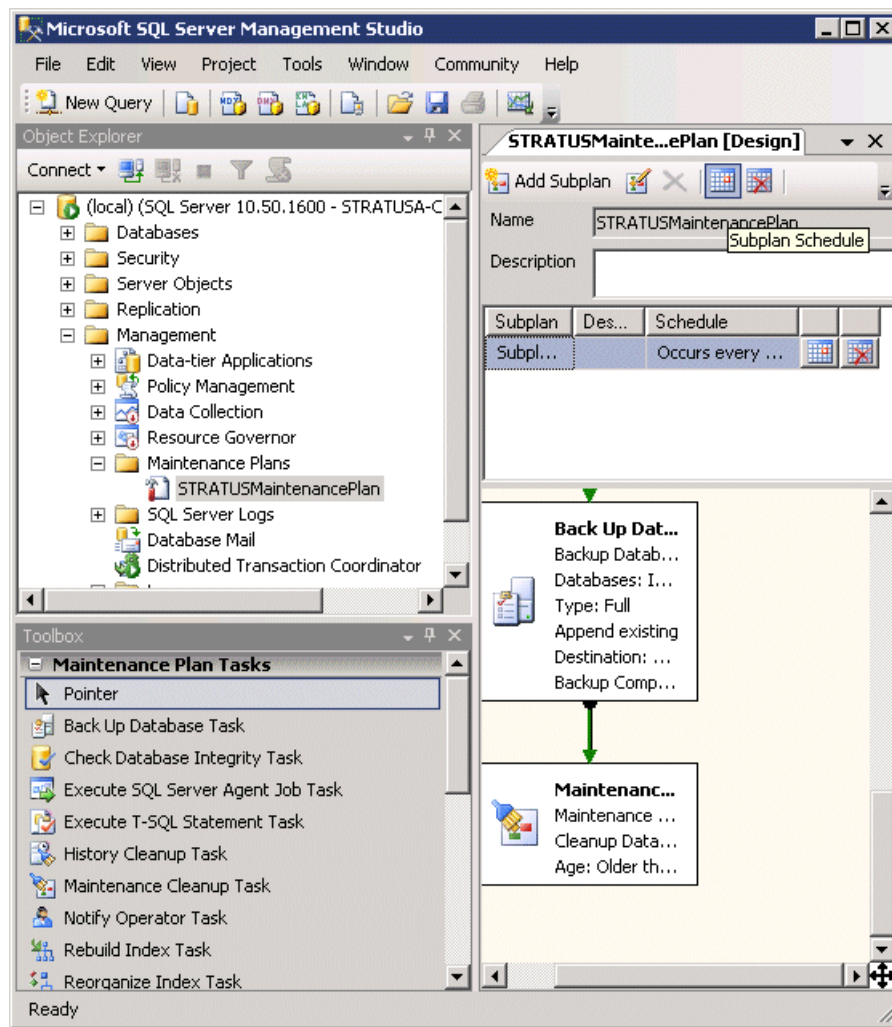
4. Double-click **Backup Database Task**.
The Backup Database Task dialog box opens.
5. In the Backup Database Task dialog box, in the **Folder** field, modify the backup directory path.
6. Click **OK** on the Backup Database Task dialog box.
7. Close Server Management Studio and answer **Yes** when prompted to save changes.

Modifying the maintenance plan schedule

The backup should occur at a time that does not conflict with peak usage of the system. Use the following procedure to modify the schedule:

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view, open the **Management | Maintenance Plans** nodes.
3. Right-click the plan, and click **Modify**.

A Plan Design panel opens.

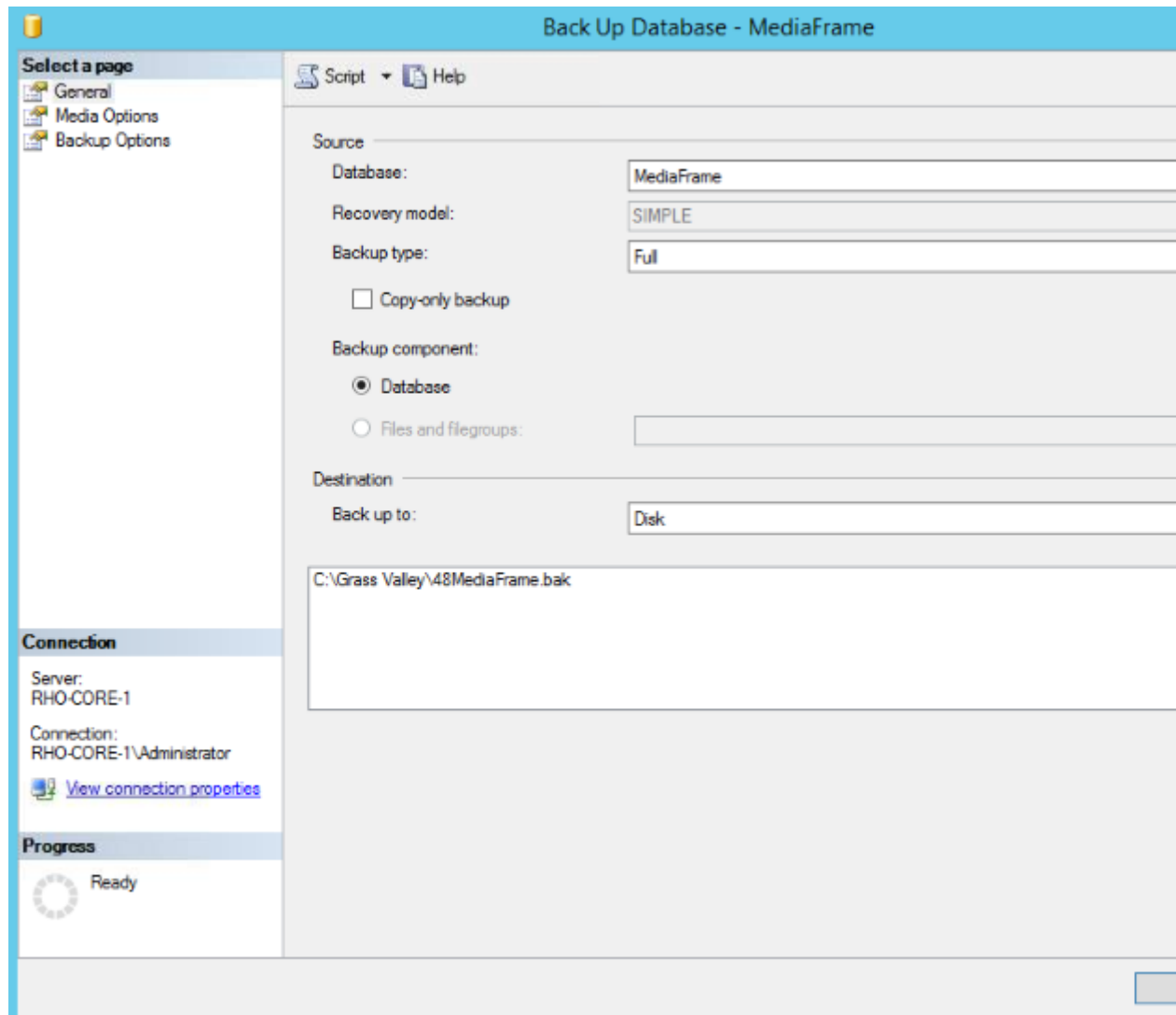


4. In the Plan Design panel list, select the subplan.
5. With the subplan selected, click the **Subplan Schedule** button in the toolbar.
The Job Schedule Properties dialog box opens
6. In the Job Schedule Properties dialog box, enter the new schedule details.
7. Click **OK** on the Job Schedule Properties dialog box.
8. Close Server Management Studio and answer **Yes** when prompted to save changes.

Backing up a database

Grass Valley recommends that you back up all the databases of the GV STRATUS system before upgrading to the latest version of the software. With a database backup, you can avoid any loss of feed schedules and the need to key in everything again in case of a system crash. The backup could also be placed on another machine or an external drive for extra precaution.

1. Open and log in to Microsoft SQL Server Management Studio.
2. In the tree-view expand the **Databases** node and identify the databases of the GV STRATUS system to backup, which are the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine
3. Right-click on a database and select **Tasks | Back Up**.



4. On the General page, select a database to be backed up from the **Database** drop-down list.
5. Select **Full** on the **Backup type** drop-down list.
6. In the Destination section, click **Add** and select the backup destination.
7. On the Media Options page, select **Back up to the existing media set** and **Overwrite all existing backup sets**.
8. On the Backup Options page, enter the name of the backup database.
9. Click **OK**.
10. Repeat for the other databases of the GV STRATUS system that you are backing up.

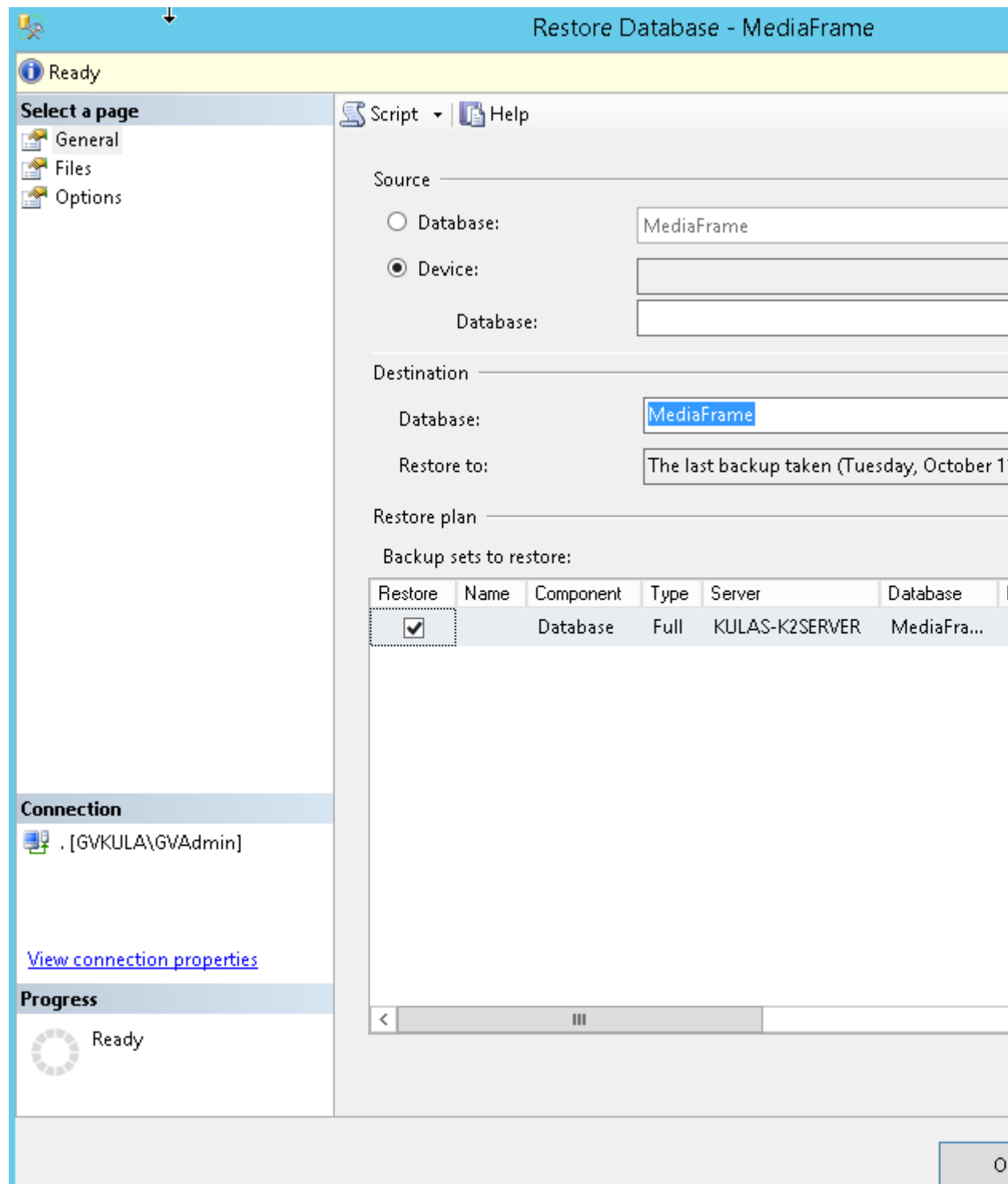
Restoring a database

Before doing this task, make sure that the database back up process is complete and the backup location identified.

1. On the GV STRATUS Core server do the following:
 - a) In Internet Information Services (IIS) Manager, stop the IIS Web server.
 - b) In the Windows operating system Control Panel, stop all of the GV services.
2. Open and log in to Microsoft SQL Server Management Studio.
3. In the tree-view expand the **Databases** node and identify the databases of the GV STRATUS system to restore, which are the following:
 - ISDB
 - MediaFlow
 - MediaFrame
 - RulesEngine

- Right-click on a database, and select **Tasks | Restore | Database**.

The Restore Database window opens.



- In the **Source** section, select **Device** and click

6. Click **Add**, navigate to the database backup location, select the backup file, click **OK** and **OK**.
If there are multiple backup files, check the date of the file and make sure you are selecting the correct file.
7. In the **Destination** section, select the database.
8. In the **Restore plan** section, select the checkbox under the **Restore** column to select the backup database to be restored.
9. In the **Options** page, do the following steps:
 - In the Restore options section, check the box to **Overwrite the existing database**.
 - In the Server connections section, check the box to **Close existing connections to destination database**.
10. Click **OK**.
11. In Internet Information Services (IIS) Manager, start the IIS Web server.
12. Restart the GV STRATUS Core server.
13. Launch the GV STRATUS Control Panel, select **Core | Search Index Config** and click **Reset Index**.

Updating the maintenance plan after renaming the server

Before updating the maintenance plan, verify that you have has SQL Server Integration Services (SSIS) installed. SSIS is part of the typical SQL Server installation.

If you rename the GV STRATUS server, you must update the maintenance plan. Renaming the server does not alter the maintenance plan.

The maintenance plan update can be divided into three main sections:

Stage 1: Exporting the maintenance plan to a file

Stage 2: Updating the file with the new server name

Stage 3: Importing the modified plan

1. Open SQL Server Management Studio (SSMS) on the server.
2. Open a connection to the local Database Engine and to the local Integration Services. (Use the Connect drop down button in SSMS.)
3. Locate the STRATUSMaintenancePlan under **Integration Services | Stored Packages | MSDB | Maintenance Plans**.
4. Right-click on the maintenance plan to bring up the context menu, and select **Export Package**.
5. Select **File System** in the Package Location drop-down list.
6. Enter or browse to a desired location in the Package Path text box.
7. Click **OK** and verify that the file was created by navigating to the specified location.
8. Open the file in a text editor, such as Notepad.
9. Replace all occurrences of the old server name with the new server name, and save the file.
10. In SSMS, right-click on **Integration Services Stored Packages | MSDB | Maintenance Plans**.
11. From the context menu, select **Import Package**.
12. Specify the same path as you did in step 6.

13. If the modified maintenance plan has the same name as the original, a warning is displayed indicating that the Maintenance Plan will be overwritten. Click **OK**.

NOTE: *Do not import the package file (e.g. STRATUSMaintenancePlan.dtsx) into another maintenance plan.*

Clearing the GV STRATUS database

If your GV STRATUS Database has data problems, you can clear all data and start over with a blank database.

NOTE: *This procedure deletes all metadata, markers, keywords, associations, and other data created by the GV STRATUS application. Do not use this procedure if you have data that you want to retain in your GV STRATUS Database.*

1. Uninstall the GV STRATUS core services.
2. Delete the GV STRATUS Database as follows:
 - a) Open and log in to Microsoft SQL Server Management Studio.
 - b) In the tree-view expand the **Databases** node and identify the databases of the GV STRATUS system.
 - c) Right-click on **MediaFrame** and select **Delete**.
 - d) Select **Close existing connections** and then click **OK**.
3. Re-install the GV STRATUS core services.

The GV STRATUS core services install a blank GV STRATUS Database, then re-populate the GV STRATUS Database with the assets it finds on your K2/Summit/SAN systems.

Related Topics

[Logging in to Microsoft SQL Server Management Studio](#) on page 566

Changing passwords

Use the topics in this section to avoid errors when changing passwords.

Changing administrator passwords

Grass Valley systems recognize security levels based on Windows users and groups, and pre-configured GVAdmin / GV STRATUS Internal System Account.

For ongoing security you should only change these accounts credentials or create unique accounts with similar administrative privileges.

Use the topics in this section to avoid errors when changing administrator passwords.

Changing Windows Administrator passwords

The Windows Administrator account is typically used for initial setup, configuration, and software deployment on a Grass Valley system.

If the Windows Administrator password changes or you use different account for setup, configuration, and software deployment, you must change credentials that SiteConfig uses for the target devices.

Use topics in this section to avoid errors when changing passwords.

1. [Changing passwords on Windows 7 and Windows Servers](#) on page 592. Follow steps in this topic to change Windows Administrator Password on all GV STRATUS Servers and K2 Machines.
2. [Changing SiteConfig credentials](#) on page 588. On each device, verify that Windows administrator user account credentials are the same as those that SiteConfig uses to access the device. If you need to create a new account or use another account with administrator privileges, then you must update SiteConfig with the same credentials.
3. [Fully qualified domain configuration](#) on page 725. If the system is fully integrated into a domain, you can use a domain account that has local administrator rights. Then you must update SiteConfig with the same domain account credentials.

Changing SiteConfig credentials

In SiteConfig, the remote target credentials need to be updated for any device using the Windows Administrator credentials to deploy software. This can be done by either changing the global credentials for device types or changing each device to override the global credentials to match the corresponding Windows Administrator credentials.

1. Change the global credentials for the following Device Types: GV STRATUS Server, GV STRATUS Client, Control Point PC, K2 Server, K2 Summit Client – SAN, and K2 Summit Client – Standalone to match the corresponding Windows Administrator credentials.
2. Proceed as follows:
 - If you previously applied credentials to the device that were different than the global credentials and now you want to apply the global device type credentials, select **Use Global Credentials**.
 - If you want to apply credentials to the device that are different than the device-type credentials, select **Override Global Credentials**.

The Set Device Logon Credentials dialog box opens.

3. Enter the user name and password for the device and click **OK**.
4. To test the credentials, right-click on the device and choose **Remote Desktop** to start a session to the device.
5. On each device, verify the Windows administrator user account credentials are the same as those that SiteConfig uses to access the device.

Changing GV STRATUS Internal System account passwords

GVAdmin is the default account that is used for the GV STRATUS Internal System Account and to connect to other Grass Valley products. The GV STRATUS system uses this account to access assets, database, file share and some other internal functions.

If the GV STRATUS internal system account password changes or you use a different administrator account, you must change credentials used for all GV STRATUS Servers and K2 Machines.

NOTE: *The GVAdmin password does not support the '@' sign as part of the password.*

Use topics in this section to avoid errors when changing passwords.

1. [Changing passwords on Windows 7 and Windows Servers](#) on page 592. Change GVAdmin password on all GV STRATUS Servers and K2 Machines. To change the password, you need to follow the recommended guidelines for changing Windows account password. Follow steps in this topic to change GV STRATUS Internal System account password on all GV STRATUS Servers and K2 Machines.
2. [Configure SQL Security logins](#) on page 730. If your system is running SQL services under the local GVAdmin account, follow steps in this topic to update the GVAdmin credentials using SQL Server Configuration Manager for the SQL Server (MSSQLServer) and SQL Server Agent (MSSQLServer).
3. Update GVAdmin password in the following configuration if using the GVAdmin account in GV STRATUS Control Panel:
 - Stratus Core Services | Primary Site | Internal system Account
 - Stratus Core Services | Remote Site
 - MDI Configuration | Summit MDI
 - MDI Configuration | GFTP MDI
 - K2 Storage | Remote K2 Storage
 - Location Config | Locations Configuration
 - Ingest | Channel Setup
 - RMI | Import to K2 Settings
 - TX Scheduler | Channel Setup

NOTE: *For Remote Push transfers the account that is used gets validated locally. So if you are using the workgroup GVAdmin account for remote push transfers, both systems need to have the same password for this account.*

4. Update these components via SiteConfig to use the new credentials and reinstall these software:

GrassValley_STRATUS_CoreServices
GrassValley_STRATUS_DataMover
GrassValley_STRATUS_DIVA_MDI
GrassValley_STRATUS_FlashNet_MDI
GrassValley_STRATUS_Masstech_MDI
GrassValley_STRATUS_GFTP_MDI
GrassValley_STRATUS_HttpProxyServer
GrassValley_STRATUS_MediaFlow
GrassValley_STRATUS_MEWS
GrassValley_STRATUS_Proxy_Encoder
GrassValley_STRATUS_RenderEngine
GrassValley_STRATUS_Rules
GrassValley_STRATUS_ScheduledTransferEngine
GrassValley_STRATUS_Summit_MDI
GrassValley_STRATUS_TrafficGateway
GrassValley_STRATUS_Transcode
GrassValley_Log_Manager
GrassValley_Log_Viewer

5. If you don't reinstall for the other packages, you need to modify the following on the GV STRATUS servers:
 - a. Configure GV STRATUS windows services to log on with the new credentials. From the following list, identify the services running on the server, and configure each of those services to logon with the appropriate credentials.
 - GV STRATUS ASK
 - GV STRATUS Asset mgr
 - GV STRATUS Conform Engine
 - GV STRATUS Data Mover Engine
 - GV STRATUS MDI DIVA.
 - GV STRATUS MDI Encoder.
 - GV STRATUS MDI Flashnet.
 - GV STRATUS MDI Masstech.
 - GV STRATUS MDI GFTP
 - GV STRATUS MDI Proxy
 - GV STRATUS MDI Summit
 - GV STRATUS MediaFlow Workflow Engine
 - GV STRATUS Resolver
 - GV STRATUS Rules Wizard
 - GV STRATUS Traffic Gateway
 - GV STRATUS Transfer mgr (Note: This is disabled for Ponyo so shouldn't be needed)
 - GV STRATUS Xcode Control
 - Grass Valley XRE Controller
 - GV Log Manager
 - b. Update the StratusAppPool with the correct credentials, as follows:
 - a. Open the Windows operating system Server Manager.
 - b. In the tree-view navigate to Roles | Web Server (IIS) | Internet Information Services (IIS) Manager | Connections | <server_name> | Application Pools.
 - c. For the StratusAppPool, update to use the correct credentials.
 - d. For the HttpProxyAppPool, update to use the correct credentials.
 - c. On every EDIUS and Render Engine server, use the XRE AdminConsole | Plug-in to update the credentials for every K2 server in the Importer/Exporter | K2 (SAN) | Server list.
 - d. On the K2 Media Servers and K2 standalones that are hosting the Stratus Summit Service, update the credentials in the configuration file at: *C:\Program Files (x86)\Grass Valley\STRATUS Summit Service\Atlas.Service.Summit.ServiceHost.exe.config*

For example:

```
<appSettings>
  <add key="Hostname" value="localhost"/>
  <add key="Username" value="GVAdmin"/>
  <add key="Password" value="your_password"/>
  <add key="Domain" value=" " />
</appSettings>
```


Restart the GV STRATUS Summit Services to put the change into effect. This setting will need to be updated everytime you reinstall the software.

Changing passwords on Windows 7 and Windows Servers

Use the proper Windows operating system procedure to change a password as instructed in this topic. Failure to do so causes subsequent problems in the SiteConfig application and when doing other configuration tasks. Do not use Computer | Manage and set the password for Local Users and Groups. Do not attempt to change the password on an account that is not your currently logged in account.

1. Ensure that you are logged in to the Windows operating system with the account for which you are changing the password.
2. In the Windows operating system **Control Panel**, open **User Accounts**.
3. Select the account (your currently logged in account) for which you are changing the password.
4. Press **Ctrl + Alt + Delete**.
5. Select **Change a Password**.
6. When prompted, enter the existing (current) password and the new password.
7. If the PC hosts the SiteConfig application, do the following:
 - a) Close SiteConfig.
 - b) Log out of the Windows operating system.
 - c) Log in to the Windows operating system.

If a message regarding loss of data appears, it means you are not using the proper Windows operating system procedure. Do not proceed with attempting to change the password.

If the PC hosts the SiteConfig application and you change the password using an improper procedure, you must change the password back to the original password. Failure to do so renders SiteConfig inoperable. If it is not possible to change the password, a workaround is to switch to a different administrator account on the PC and run SiteConfig from that account.

Ports and services mapping

Software components run as Windows services, which communicate over designated ports. Do not create your own convention for port usage. Designate ports as specified in the following:

80	Protocol: TCP. Traffic: HTTP. Used by any GV STRATUS server or MediaFrame server.
445	Protocol: TCP. Used by SDB and XMOS Server and NAS. Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
1223	TCP: Used by EDIUS XRE Server.
1433	TCP: Used by DSM.
2000	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
2001	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.

2002	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for Enco Audio Server, load and playback of audio media.
2003	Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3000	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3001	Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
3811	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
3838	Protocol: TCP. Used by GV STRATUS Ingest services.
3839	Protocol: TCP. Used by GV STRATUS Ingest services.
7213	Protocol: TCP. Used by GV STRATUS Router Controller service.
7144	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Router Config service for configuration.
7145	Protocol: TCP. Traffic: HTTP. Used by router config data service.
8000 - 8032	Protocol: TCP. Traffic: HTTP. Port 8000 used as follows: GV STRATUS Common Services, including preferences, licensing, authorization; Proxy config, Web Monitor data service; Ignite for Radamec SCP and Shotoku, IP to 422 Serial Communication (Camera Preset Recall). Ports 8000 to 8032 used by Ignite as follows: Digicart, IP to 422 Serial Communication; MDS-B5 and MDS-E11, IP to 422 Serial Communication (Audio Deck Control); Chyron Aprisa SSX, Chyron Duet, Insciber MOS, and Multi Deko, IP to 232 Serial Communication (CG Graphic Load and Playout); GV Cameraman, IP to 232 Serial Communication (Camera Preset Recall); Under Monitor Display, IP to 422 Serial Communication (Sends Clip +/- time to external device); CalrecMixer, IP to 422 or 232 Serial Communication (Audio Mixer Control); VCR (BVW), IP to 422 Serial Communication (Deck Control); VDCP, IP to 422 Serial Communication (Deck/Video Server Control). Ports 8000 - 8032 used by Control Devicemaster RTS.
8080	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Summit Services. Used by WCF service provided by the GV STRATUS Workflow Engine. Used by WCF service provided by the GV STRATUS Rules Engine.
8100	HTTP/TCP: Used by Macintosh systems for the SabreTooth licensing web service to check out licenses
8511	Protocol: TCP. Traffic: HTTP. Used by playout config data service.
8732	Protocol: TCP. Traffic: HTTP. Used by Site Config data service .
8733	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service .
8734	Protocol: TCP. Traffic: HTTP. Used by Site Config data service .
8735	Protocol: TCP. Traffic: HTTP. Used by K2 Config data service.
8737	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Ingest Config service for configuration. Used by GV STRATUS Control Panel Services for K2 Remote storage configuration. Used by GV STRATUS Core Server.

8740	Protocol: TCP. Traffic: HTTP. Used by general config data service.
8742	Protocol: TCP. Traffic: HTTP. Used by Send destination config data service.
8744	Protocol: TCP. Traffic: HTTP. Used by RMI config data service.
9010	TCP: Used by GV Ask service.
9012	TCP: Used by GV License Manager.
9014	TCP: Used by GV Metadata. Not visible on a configuration page.
9016	TCP: Used by GV Resolver. Not visible on a configuration page.
9018	TCP: Used by GV RulesWizard. Not visible on a configuration page.
9019	TCP: Used by GV RulesWizard. Not visible on a configuration page.
9020	TCP: Used by GV Transfer Manager.
9022	TCP: Used by GV Asset Manager.
9023	TCP: Used by GV Asset Manager.
9024	TCP: Used by GV Subscription Manager.
9110	TCP: Used by GV Proxy MDI.
9115	TCP: Used by GV NTFS MDI.
9122	TCP: Used by GV DIVA MDI.
9124	TCP: Used by GV FlashNet MDI.
9129	TCP: Used by GV Masstech MDI.
9130	TCP: Used by GV Profile MDI. The service manages one host process for each managed Profile. These host processes require ports 9130-9139. Stopping/starting the service stops/starts all of the host processes.
9140	TCP: Used by GV MSeries MDI. The service manages one host process for each managed M-Series iVDR. These host processes require ports 9140 - 9149. Stopping/starting the service stops/starts all of the host processes.
9150	TCP: Used by GV News Share MDI.
9160	TCP: Used by GV K2 MDI and GV K2 Summit MDI Service. The service manages a number of host processes, one for each K2 system that is being managed. These host processes require ports 9160 - 9169. Stopping/starting the service stops/starts all of the host processes.
9170	TCP: Used by GV FTP MDI in the Aurora workflow, which can use a range of ports, starting with this port number.
10540	TCP: Used by XMOS Server incoming and outgoing MOS communication.
10541	Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
12345	Protocol: TCP. Used by Ingest Router Port. Used by Ignite for VCP Server (ESPN).
31820	Protocol: UDP. Used for live streaming from K2 Summit/Solo systems. This is the default base for UDP ports, with the range being 31820 to 31827. Other ranges are possible, depending on the UDP port base configured on the K2 Summit/Solo system.

- 49168** HTTP/TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for most functions.
- 49169** TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for a few functions that require longer time periods.

The system also depends upon Microsoft Internet Information Services (IIS) and SQL services.

Related Topics

Devices components: Roles, cab files, services, and licenses on page 375

Set firewall for application ports on page 207

Embedded Security modes and policies

The Embedded Security solution protects against viruses and other unauthorized programs on the following Grass Valley systems:

- K2 Summit/Solo system
- All types/roles of K2 Media Server
- All types/roles of GV STRATUS server

Embedded Security prevents any unauthorized programs from running on the system. It contains a whitelist of programs that are authorized to run. Whenever a program attempts to run, it is checked against the whitelist. If the program is not on the whitelist, Embedded Security blocks the program from running. SiteConfig, and any software deployed by SiteConfig, is on the whitelist, so you do not need to manage Embedded Security in any way when using SiteConfig to deploy software. All versions of SiteConfig are compatible with Embedded Security.

When installing software manually (without SiteConfig) it might be necessary to manage Embedded Security. When necessary, you can put Embedded Security in Update mode. This mode allows you to manually install software that is not on the whitelist. Do not confuse Update mode with the idea that Embedded Security is "disabled". When in Update mode, Embedded Security is still active. While in Update mode, Embedded Security keeps track of any software you run or install and adds it to the whitelist. When you are done installing software and any required restarts, you must take Embedded Security out of Update mode so that it can protect the system. For software that requires a restart after installation, such as K2 system software and SNFS media file system software, Embedded Security must remain in Update mode until after the restart is complete.

No system restarts are required for entering or leaving Update mode, and a restart does not change the Update mode status. If in Update mode before a restart, the system remains in Update mode after a restart. You use the Embedded Security Manager to enter and leave Update mode.

The following policies apply to the Embedded Security:

- Use Update mode only as instructed by Grass Valley product documentation or as directed by Grass Valley Support. Do not do any other operations with Embedded Security Manager, unless under the direct supervision of Grass Valley Support.
- Do not keep Embedded Security in Update mode long-term, as Embedded Security does extra processing while in Update mode and eventually problems arise when attempting to run software.

- Make sure that Embedded Security is not in Update mode when using SiteConfig to install software. Update mode interferes with SiteConfig's automatic management of Embedded Security and causes problems running the software installed.
- Leave Embedded Security enabled for normal operation of your Grass Valley system. Do not disable Embedded Security except as instructed by Grass Valley product documentation or as directed by Grass Valley Support. Enabling and disabling Embedded Security requires a restart.
- Do not install any programs or modify any operating system settings unless approved by Grass Valley. By design, Embedded Security prevents any programs from being installed or from running that are not present when you receive the system new from Grass Valley. These Grass Valley systems are not general purpose Windows workstations. The applications and configuration have been specifically optimized on each system for its intended use as part of the Grass Valley system.
- While Embedded Security is the key anti-virus component on these systems, you should still follow the Grass Valley anti-virus scan policy and scan all the devices in your Grass Valley system to ensure viruses are not propagated between machines.

Embedded Security is part of the K2 Summit/Solo system generic disk image and the K2 Media Server generic disk image compatible with K2 software version 9.0 or higher. Both K2 Media Servers and GV STRATUS servers use the same generic disk image, so GV STRATUS servers inherit the Embedded Security solution. On K2 Summit/Solo systems, the Embedded Security solution introduced with K2 software version 9.0 replaces the write filter from previous versions.

Related Topics

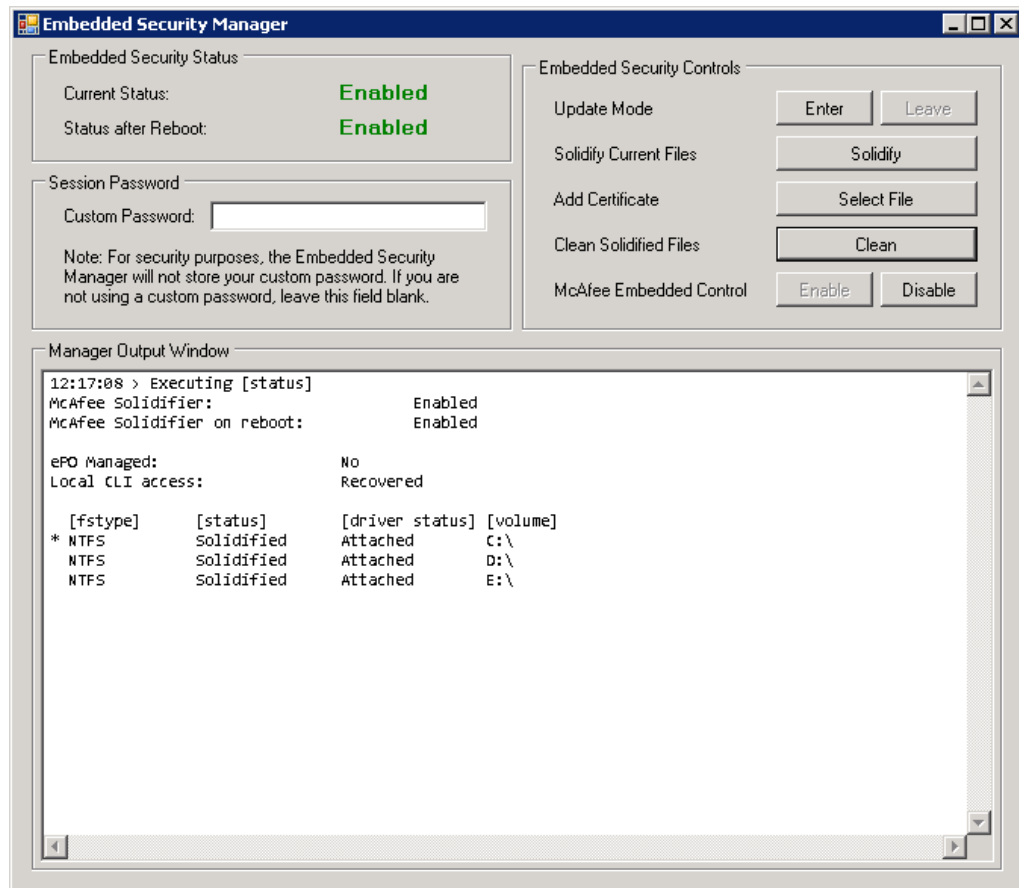
[Manage Embedded Security Update mode](#) on page 597

[Grass Valley anti-virus scan policy](#) on page 360

Manage Embedded Security Update mode

Update mode is only needed when modifying system software when not using SiteConfig. Be sure the Embedded Security Manager is set to Enabled after software updates are complete for proper operation.

1. From the Windows desktop, click **Start | All Programs | Grass Valley | Embedded Security Manager**. Embedded Security Manager opens.



Interpret Current Status as follows:

- **Enabled:** Embedded Security is enabled but is not in Update mode.
- **Update:** Embedded Security is enabled and is in Update mode, ready for software installation.

2. Manage the Update mode as follows:

- If Embedded Security is not in Update mode, click **Enter** to put it in Update mode.
- If Embedded Security is already in Update mode, click **Leave** to take it out of Update mode.

A restart is not required after you change the Update mode.

Complete system set up and configuration

Complete system installation process

Use the following list if you must change the system configuration or if there are system setup or configuration processes that are incomplete. Browse this process and do the appropriate items.

1. [Rack, cable, and power on process](#) on page 185. All systems require this process.
2. [K2 system set up process](#) on page 599. All systems require this process.
3. [Express/Core server set up process](#) on page 601. All systems require this process. Use SiteConfig for network setup and software install. On the GV STRATUS server with role of Common Services, use SabreTooth and install GV STRATUS licenses.
4. [Proxy Server/Storage set up process](#) on page 613. Only systems with proxy on the K2 SAN (A1) or with proxy on dedicated Proxy Storage (B1, C1) require this process. Use SiteConfig for network setup and software install, then use K2Config for SAN setup.
5. [GV STRATUS Control Panel system configuration process](#) on page 641. All systems require this process. Use GV STRATUS Control Panel to configure the GV STRATUS system for your site's workflow.
6. [Customer network, licenses, and roles process](#) on page 202. All systems require this process. Set up the GV STRATUS Core server on the customer's network and assign GV STRATUS licenses and roles to the customer's groups and users.
7. [Client PC set up process](#) on page 204. All systems require this process. Add the customer's GV STRATUS client PCs to the system.
8. [SiteConfig software deployment process](#) on page 658. All systems require this process when updating to new versions of Grass Valley product software.
9. [Render Engine Server set up process](#) on page 674. Only systems with a Render Engine Server require this process. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-CONFORM license. Use SiteConfig for network setup and software install. Then use K2Config for SAN setup.
10. [Archive system set up process](#) on page 695. Only systems with an archive system require this process. Configure the archive system with the K2 Summit/SAN system, use SabreTooth to install the STRATUS-ARCHIVE license, and in GV STRATUS Control Panel configure an archive MDI.
11. [Workflow Server set up process](#) on page 718. Only systems with a Workflow Server require this process. Use SiteConfig for network setup and software install. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-RULES license optional transfer/transcode licenses.

K2 system set up process

All systems require this process.

If you received your K2 system already set up from Grass Valley, skip set up tasks and do the test task only.

1. [Installing SiteConfig](#) on page 414. All system require this process.
2. [Create a SiteConfig system description](#) on page 599. All systems require this process.
3. [Set up K2 systems](#) on page 599. All systems require this process.
4. [Test K2 systems](#) on page 200. All systems require this process.

Create a SiteConfig system description

All systems require this process.

If you already have a system description supplied by Grass Valley, you can skip this task.

To create a system description for K2 SAN systems, refer to "K2 10G SAN Installation and Service Manual" for instructions.

To create a system description for K2 standalone systems, refer to the "Configuring the K2 System" section of the K2 Topic Library for instructions.

Related Topics

[About developing a system description](#) on page 366

Set up K2 systems

All systems require this process.

If you received your K2 systems already set up by Grass Valley, you can skip this task.

Prerequisites for this task are as follows:

- K2 system devices are racked, cabled, and powered on.

- The K2 System has a SiteConfig system description.

This topic applies to the K2 systems that store and serve your high-resolution assets.

1. Set up K2 systems as follows:

- If you have standalone K2 Summit systems, do the following:

Do these tasks...	Using these tools...	As instructed in the following:
Discover, modify network interfaces, propagate hosts files	SiteConfig	the "Configuring the K2 System" section of the K2 Topic Library
License the K2 Summit system for proxy	SabreTooth License Manager	the "Release Notes" section of the K2 Topic Library
Enable proxy file recording and live network streaming	K2 AppCenter Configuration Manager	the "Configuring the K2 System" section of the K2 Topic Library

- If you have an online or production K2 SAN, do the following:

Do these tasks...	Using these tools...	As instructed in the following:
Discover, modify network interfaces, propagate hosts files	SiteConfig	"K2 10G SAN Installation and Service Manual"
License the K2 SAN	SabreTooth License Manager	
Import SiteConfig system description into K2Config	K2Config	
Configure the K2 SAN	K2Config	
Configure SAN-attached K2 Summit systems	K2Config	
License SAN-attached K2 Summit systems for proxy	SabreTooth License Manager	the "Release Notes" section of the K2 Topic Library
Enable proxy file recording and live network streaming	K2 AppCenter Configuration Manager	the "Configuring the K2 System" section of the K2 Topic Library

2. Install GV STRATUS support on K2 systems using SiteConfig as follows:
 - a) In SiteConfig, add the following role(s) to standalone K2 Summit systems and to K2 Media Servers on K2 SANs that provide the high-resolution assets for the GV STRATUS system:
 - GV STRATUS Summit Service
 - b) To the deployment group that contains the K2 systems, add the following:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_SummitServices_x.x.x.cab*

NOTE: *Whenever installing or upgrading K2 systems for compatibility with GV STRATUS software, use *GrassValley_K2system_x.x.x.cab*. This cab file contains the compatible versions of all the K2 software and all the GV STRATUS software required on K2 systems. Refer to release notes for version numbers.*
 - c) Do the SiteConfig **Check Software** operation on the K2 systems.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
 - d) Verify that deployment tasks are set to **Install** for the file(s) listed above.
 - e) Deploy software to the K2 systems.
 - f) Restart as prompted.

Test K2 systems

All systems require this process.

Whether you received your K2 system already set up from Grass Valley or you set up your K2 system on site, you should test the K2 system before proceeding.

This topic applies to the K2 systems that store and serve your high-resolution assets.

Test basic record and play operations using K2 AppCenter.

Refer to the "Using K2 AppCenter" section of the K2 Topic Library.

Related Topics

[Identify test applications and setup](#) on page 199

Express/Core server set up process

All systems require this process. Use SiteConfig for network setup and software install. On the GV STRATUS server with role of Common Services, use SabreTooth and install GV STRATUS licenses.

If you received your GV STRATUS server already set up from Grass Valley, skip set up tasks and do the test task only.

NOTE: Do not change or rename GV STRATUS core server except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

1. [SiteConfig Express/Core server network set up](#) on page 602. All systems require this process.
2. [SiteConfig Express/Core server software install](#) on page 603. All systems require this process.
3. [SabreTooth GV STRATUS license process](#) on page 611. Only the GV STRATUS server with role of Common Services requires this process. Typically, this is the GV STRATUS Core server.
4. [Setting the SQL server memory limit](#) on page 75. All systems require this process.

NOTE: The operating system on the GV STRATUS core server must be configured for English locale (en-US). However, localization options are available on GV STRATUS clients.

SiteConfig Express/Core server network set up

All systems require this process.

If you received your system already set up from Grass Valley, your Express or Core servers are already included in the SiteConfig system description and set up on the network, so you can skip these tasks. Otherwise, work through the topics in this section.

Adding an Express/Core server to the SiteConfig system description

- The system description must contain a group.

This topic applies to a GV STRATUS server that is an Express server or a Core server.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
2. Configure settings for the device you are adding as follows:
 - Family – Select **STRATUS**.
 - Type – Select **STRATUS Server**.
 - Model – Select one of the following:
 - If an Express server on the GV STRATUS system, select **STRATUS Core Server Express**.
 - If a Core server on the GV STRATUS system, select **STRATUS Core Server**.
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select **1**.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.
3. Click **OK** to save settings and close.

SiteConfig adds the server to the system description as a placeholder device.

4. Verify that unmanaged control network interface is configured correctly and modify if necessary.

Next, add the GV STRATUS server to the control network.

Related Topics

[About developing a system description](#) on page 366

[Modifying unassigned \(unmanaged\) control network interface](#) on page 417

Adding a GV STRATUS server to the control network with SiteConfig

Use SiteConfig to configure network settings on a GV STRATUS server.

Before doing this task, make sure the GV STRATUS server is added as a placeholder device to the SiteConfig system description.

The following steps are the standard tasks for adding a device to the control network using SiteConfig. Use these steps for the GV STRATUS server you are adding.

1. Discover the device using SiteConfig device discovery.
2. Assign the discovered device to the placeholder device in the SiteConfig system description.
3. Modify the control network interface to ensure communication on the control network.
4. Modify the host name and/or device name as desired.
5. Ping the device to verify network communication.
6. Verify credentials to ensure SiteConfig can install software on the device.
7. Generate and/or add to host tables as appropriate for your network.

Related Topics

[Adding a device to a network with SiteConfig](#) on page 419

[Adding a device to a network with SiteConfig](#) on page 419

SiteConfig Express/Core server software install

All systems require this process.

If you received your system pre-configured from Grass Valley, software is already installed, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your GV STRATUS system has a single GV STRATUS Express server, install software on the Express server.
- If your GV STRATUS system has multiple GV STRATUS servers, install software on the GV STRATUS Core server.

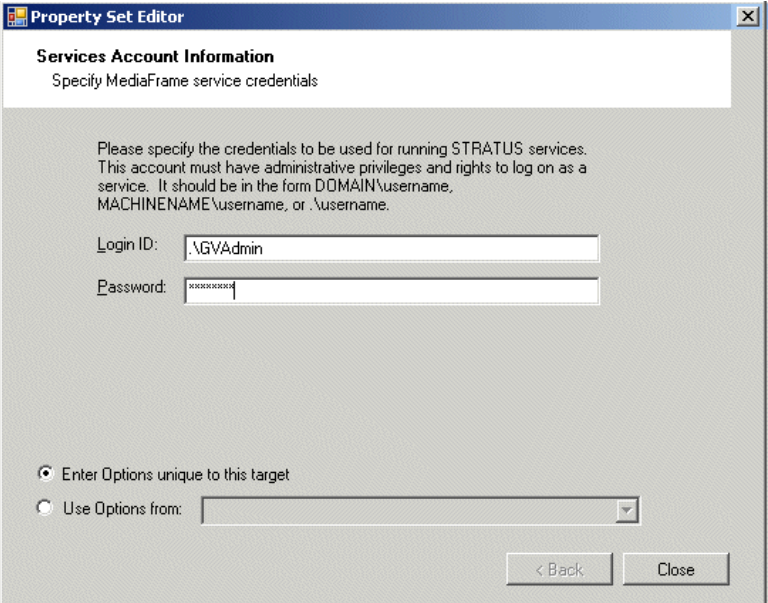
Related Topics

[GV STRATUS servers logon account](#) on page 198

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.

2. In the Tasks list view, view tasks and determine if you must set deployment options.
- Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."
- If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.
3. Do one of the following to set deployment options:
- Double-click the task.
 - Select the task and click the **Options** button.
- A wizard opens.
4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the **Use options from** feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on a GV STRATUS Express server

Only systems with a single GV STRATUS Express server require this process. Use SiteConfig to install software on the server.

- The server on which you are installing software must be in the SiteConfig system description and communicating on the control network.

- The server on which you are installing software must have its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.

3. Add the following files to the deployment group:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
- *GrassValley_K2system_x.x.x.cab*.

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.

5. Set deployment tasks to **Install** for all the files listed above except when installing Render Engine software, do not install the Render Engine cab file yet.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

6. Deploy software that is not Render Engine software to the server.
7. Restart as prompted.
8. When installing Render Engine software, do the following:
 - a) Set deployment tasks to **Install** for the Render Engine cab file.
 - b) Deploy Render Engine software to the server.

NOTE: *Expect long deployment times when installing Render Engine software. It can take several minutes to install. Allow the installation to complete. Do not attempt to stop the installation.*

9. Restart as prompted.

Related Topics

[Adding a software role to a device](#) on page 419

[Configuring deployment groups](#) on page 659

[Check all currently installed software on GV STRATUS devices](#) on page 228

[Add software package to deployment group for GV STRATUS devices](#) on page 70

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[GV STRATUS servers logon account](#) on page 198

Installing software on a GV STRATUS Core server

Only systems with multiple GV STRATUS servers require this process. Use SiteConfig to install software on the GV STRATUS server that has the role of Core Server.

- The server on which you are installing software must be in the SiteConfig system description and communicating on the control network.

- The server on which you are installing software must have its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.

3. Add the following files to the deployment group:

- *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
- *GrassValley_K2system_x.x.x.cab*.

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

6. Deploy software to the server.

7. Restart as prompted.

Related Topics

[Adding a software role to a device](#) on page 419

[Configuring deployment groups](#) on page 659

[Check all currently installed software on GV STRATUS devices](#) on page 228

[Add software package to deployment group for GV STRATUS devices](#) on page 70

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[GV STRATUS servers logon account](#) on page 198

SabreTooth GV STRATUS license process

Only the GV STRATUS server with role of Common Services requires this process. Typically, this is the GV STRATUS Core server.

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the GV STRATUS server with role of Common Services.

Related Topics

[Licensing a GV STRATUS system](#) on page 52

[Requesting a license](#) on page 54

[Adding a license](#) on page 55

SabreTooth Multisite license process

The Multisite license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

One STRATUS-MULTISITE license is required to access a remote GV STRATUS. Once installed, multisite access rights can be assigned to groups and users.

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

Setting the SQL server memory limit

The SQL server depends on memory to cache information from databases on disk for fast access. If more data exists on disk than can be held in memory, the SQL server performance will degrade.

To avoid low memory issues on the GV STRATUS Core server, the memory that should be assigned to SQL server depends on the memory size of the physical device.

Grass Valley recommends the setting of SQL server memory limit according to the table below:

Physical Memory	SQL server memory limit	Approximate number of assets supported
12 GB	5120 MB	200,000 – 350,000
16 GB	8192 MB	320,000 – 560,000
32 GB	18,432 MB	720,000 – 1,260,000
48 GB	32,768 MB	1,280,000 – 2,240,000
64 GB	47,104 MB	1,900,000 – 3,360,000

Set the SQL server memory limit as follows:

1. From the Windows desktop click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.

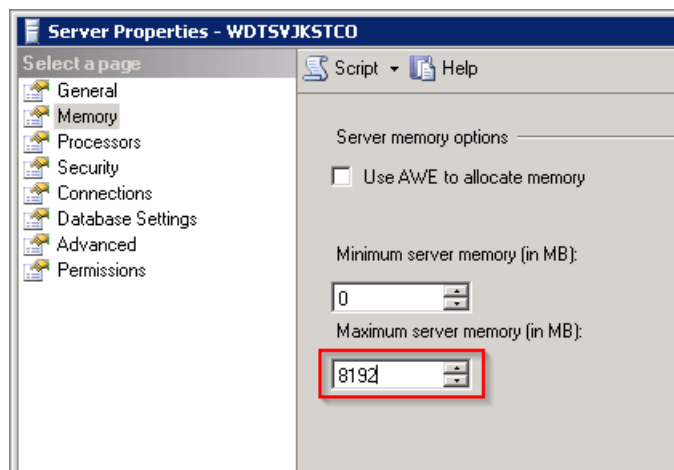
Microsoft SQL Server Management Studio opens.

2. Log on as Administrator.
3. Right-click on the SQL server name and select **Properties** from the context menu.

The **Server Properties** dialog opens.

4. Click **Memory**.

The Memory page opens.



5. In the **Maximum server memory** setting, enter your SQL server memory limit in MB.
6. Click **OK**.

A restart of the server is not necessary, but recommended.

Next, disable the Auto Close feature for Ingest Database.

Proxy Server/Storage set up process

Only systems with proxy on the K2 SAN (A1) or with proxy on dedicated Proxy Storage (B1, C1) require this process. Use SiteConfig for network setup and software install, then use K2Config for SAN setup.

If you received your proxy system already set up from Grass Valley, skip set up tasks and do the test task only.

1. [SiteConfig Proxy Server/Storage network set up](#) on page 613. Only systems with proxy on the K2 SAN (A1) or with proxy on a dedicated Proxy Storage system (B1, C1) require this process.
2. [SiteConfig Proxy Server/Storage software install](#) on page 616. Only systems with proxy on the K2 SAN (A1) or with proxy on a dedicated Proxy Storage system (B1, C1) require this process.
3. [K2Config Proxy server set up](#) on page 620. Only systems with proxy on the K2 SAN (A1) require this process.
4. [K2Config Proxy Storage set up](#) on page 624. Only systems with proxy on a dedicated Proxy Storage system (B1, C1) require this process.

SiteConfig Proxy Server/Storage network set up

Only systems with proxy on the K2 SAN (A1) or with proxy on a dedicated Proxy Storage system (B1, C1) require this process.

If you received your system pre-configured from Grass Valley, your Proxy server or Proxy Storage system is already included in the SiteConfig system description and set up on the network, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your proxy assets are on an online or production K2 SAN (A1), start by adding the K2 SAN's Proxy server to the SiteConfig system description.
- If your proxy assets are on a dedicated Proxy Storage system (B1, C1), start by adding the Proxy Storage system to the SiteConfig system description.

Adding a Proxy server to the SiteConfig system description

- The system description must contain a group.

This topic applies to a K2 SAN's Proxy server, which is the GV STRATUS server with role of Proxy Server attached to an online or production K2 SAN.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.

2. Configure settings for the device you are adding as follows:

- Family – Select **STRATUS**.
- Type – Select **STRATUS Server**.
- Model – Select **STRATUS Proxy Server**.
- Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
- Amount — Select **1**.
- Platform — Select **x64**.
- Control network– Select the control network.
- Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.

3. Click **OK** to save settings and close.

SiteConfig adds the Proxy server to the system description as a placeholder device.

4. Verify that the unmanaged control network interface is configured correctly and modify if necessary.

Next, add the GV STRATUS server to the control network.

Related Topics

[About developing a system description](#) on page 366

[Modifying unassigned \(unmanaged\) control network interface](#) on page 417

Adding a Proxy Storage file system server to the SiteConfig system description

Do this if you have a Proxy Storage system and it is not yet included in the SiteConfig system description.

- The Proxy Storage system must be cabled and powered on.
- The system description must contain a group.

This procedure assumes that your online or production K2 SAN is already added to the system description. If you have not yet added your online or production K2 SAN to the system description, you can add both the K2 SAN and the Proxy Storage system at the same time. To do so, make the appropriate selection on the first page of the New Site Wizard, then refer to "K2 10G SAN Installation and Service Manual" for more information.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.

2. Configure settings for the device you are adding as follows:
 - Family – Select **STRATUS**.
 - Type – Select **STRATUS Server**.
 - Model – Select **STRATUS Proxy Storage File System Server**.
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select **1**.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.
3. Click **OK** to save settings and close.
SiteConfig adds the Proxy Storage file system server to the system description as a placeholder device.
4. Verify that the unmanaged control network interface is configured correctly and modify if necessary.

Next, add the GV STRATUS server to the control network.

Related Topics

[About developing a system description](#) on page 366

[Modifying unassigned \(unmanaged\) control network interface](#) on page 417

Adding a GV STRATUS server to the control network with SiteConfig

Use SiteConfig to configure network settings on a GV STRATUS server.

Before doing this task, make sure the GV STRATUS server is added as a placeholder device to the SiteConfig system description.

The following steps are the standard tasks for adding a device to the control network using SiteConfig. Use these steps for the GV STRATUS server you are adding.

1. Discover the device using SiteConfig device discovery.
2. Assign the discovered device to the placeholder device in the SiteConfig system description.
3. Modify the control network interface to ensure communication on the control network.
4. Modify the host name and/or device name as desired.
5. Ping the device to verify network communication.
6. Verify credentials to ensure SiteConfig can install software on the device.
7. Generate and/or add to host tables as appropriate for your network.

Related Topics

[Adding a device to a network with SiteConfig](#) on page 419

[Adding a device to a network with SiteConfig](#) on page 419

SiteConfig Proxy Server/Storage software install

Only systems with proxy on the K2 SAN (A1) or with proxy on a dedicated Proxy Storage system (B1, C1) require this process.

If you received your system pre-configured from Grass Valley, software is already installed, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your proxy assets are on an online or production K2 SAN (A1), you have a Proxy server, which is a GV STRATUS server with role of Proxy Server that is attached to your online or production K2 SAN. Install software on the Proxy server.
- If your proxy assets are on a Proxy Storage SAN (B1, C1), you have a Proxy Storage file system server, which is a GV STRATUS server with role of Proxy Server that is attached to your Proxy Storage system. Install software on the Proxy Storage file system server.

Related Topics

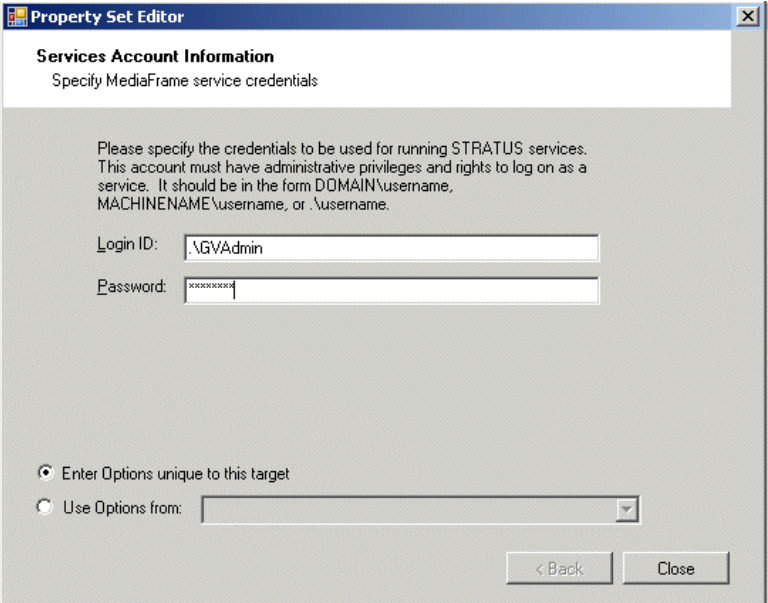
[GV STRATUS servers logon account](#) on page 198

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
 2. In the Tasks list view, view tasks and determine if you must set deployment options.
Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.
 3. Do one of the following to set deployment options:
 - Double-click the task.
 - Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on a Proxy server

Only systems with proxy on the K2 SAN require this process. Use SiteConfig to install software on the GV STRATUS server with role of Proxy Server that is attached to the K2 SAN.

- The server on which you are installing software must be in the SiteConfig system description and communicating on the control network.

- The server on which you are installing software must have its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy K2 SAN Server
 - GV Log Manager
 - StorNext File System Client
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.
 3. Add the following files to the deployment group:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*.

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
6. Deploy software to the server.
7. Restart as prompted.

Next, use K2Config and set up the Proxy server on the K2 SAN.

Related Topics

[Adding a software role to a device](#) on page 419

[Configuring deployment groups](#) on page 659

[Check all currently installed software on GV STRATUS devices](#) on page 228

[Add software package to deployment group for GV STRATUS devices](#) on page 70

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[GV STRATUS servers logon account](#) on page 198

Installing software on a Proxy Storage file system server

Only systems with proxy on a dedicated Proxy Storage system require this process. Use SiteConfig to install software on the Proxy Storage file system server, which is the GV STRATUS server on a Proxy Storage system.

- The server on which you are installing software must be in the SiteConfig system description and communicating on the control network.
 - The server on which you are installing software must have its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy Storage Server
 - GV Log Manager
 - StorNext File System Server
 - StorNext File System Client
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.
 3. Add the following files to the deployment group:

- *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*

The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
- *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*.

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

6. Deploy software to the server.
7. Restart as prompted.

Next, use K2Config and set up the Proxy Storage system as a K2 SAN.

Related Topics

[Adding a software role to a device](#) on page 419

[Configuring deployment groups](#) on page 659

[Check all currently installed software on GV STRATUS devices](#) on page 228

[Add software package to deployment group for GV STRATUS devices](#) on page 70

[Devices components: Roles, cab files, services, and licenses](#) on page 375

[GV STRATUS servers logon account](#) on page 198

K2Config Proxy server set up

Only systems with proxy on the K2 SAN (A1) require this process.

If you received your system pre-configured from Grass Valley, your Proxy server is already set up on your K2 SAN, so you can skip these tasks. Otherwise, work through the tasks in this section sequentially to add a GV STRATUS server as a Proxy server to your online or production K2 SAN.

Related Topics

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

K2 SAN prerequisites for adding devices

The following K2 SAN preparations are required to support adding a device to the SAN:

- All K2 Media Servers and/or K2 RAID storage devices must be installed and cabled.
- The control network must be operational with K2 devices communicating. At the command prompt, use the ping command to verify.
- The media network (non-redundant) or networks (redundant) must be operational. You can check this with the K2Config application.
- K2 RAID devices must have disks bound and be configured as required for operation on the K2 SAN.
- K2 Media Servers must be configured such that an operational media file system is present.
- K2 Ethernet switches must be configured and have V-LANs set up.
- The K2 Media Server with role of file system server must be licensed as appropriate for the design of your K2 SAN.

Verify license on K2 Media Server

The K2 SAN license is installed on K2 Media Servers with role of iSCSI bridge. If a redundant system and/or a large system with multiple servers, the license must be installed on each K2 Media Server with role of iSCSI bridge. Use the following steps to verify the license on each K2 Media Server with role of iSCSI bridge.

1. On the K2 Media Server, open SabreTooth License Manager.
2. Verify that a license identified as K2-ISCASI-SVR is installed.

If the license for your K2 SAN license is not installed, you must install it before proceeding.

Adding a GV STRATUS server to a SAN

You can add a GV STRATUS server to a SAN as follows:

1. If you have not already done so, in SiteConfig, add the server to the appropriate group and verify that it is communicating correctly on networks.
2. In the K2Config application tree view, select the name of the K2 SAN, which is the top node of the storage system tree.
3. Click **Add Device**. The Add Device dialog box opens.
4. Select **GV STRATUS Core Services Server**.

This is the correct selection for the following GV STRATUS servers:

- Proxy server (A1)
- Proxy Storage file system server (B1, C1)

5. Click **OK**. The new server appears in the tree view.

Next, if the server is a redundant iSCSI client on a K2 SAN, install MPIO software. Then configure the server.

Configuring a GV STRATUS Proxy server

This section applies to a GV STRATUS server with role of Proxy server on an online or production K2 SAN (A1).

1. In the K2Config application tree view, select the GV STRATUS server you are configuring.
2. Click the **Configure** button.

The Configure K2 Server wizard opens to the Define server roles page.

Configure Define Server Roles page - GV STRATUS Proxy server

Configure STRATUS Server - Define server roles

Hostname
Enter the hostname of the server to configure :

Server roles
This server will be configured for the roles selected below
☐ SNFS file system server
☒ Proxy Server
☐ FTP Server
 Storage access

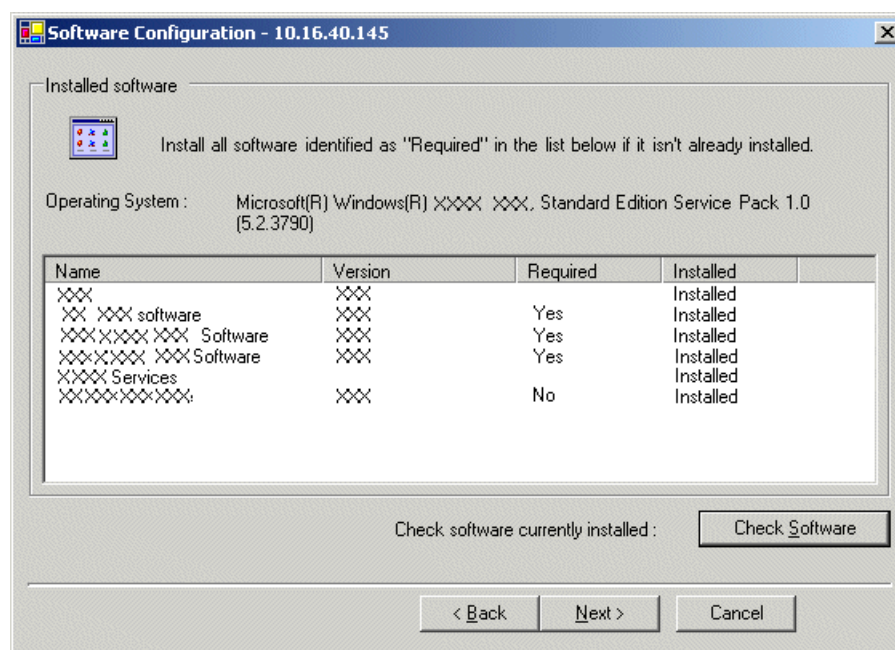
Select the method by which this client will access the shared storage:
☐ iSCSI
☒ Fibre Channel

< Back Next > Cancel

1. Enter the name of the server, as currently configured on the machine.
SNFS file system server is not selected by default and disabled.
For a Proxy server, select **Proxy storage server**.
There is no Media Database Server in a Proxy Storage system.
2. Click **Next**.

The Software Configuration page opens.

Configure Software Configuration page

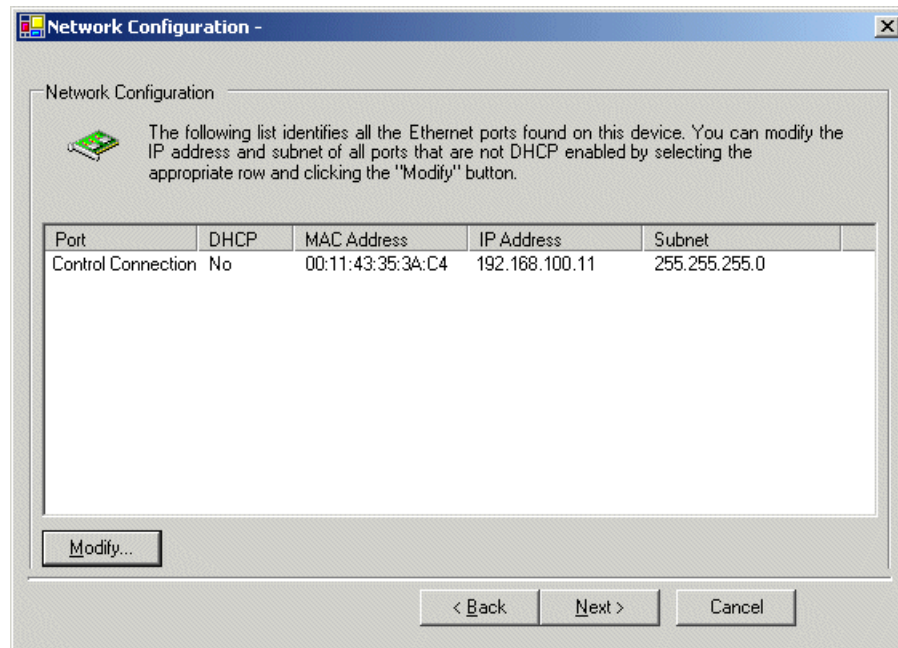


This page checks for the software required to support the roles you selected on the previous page.

NOTE: MPIO software is required on servers in redundant systems.

1. If software with **Yes** in the Required column reports as **Not Installed**, install the software.
2. Click **Check Software**.
3. When all required software reports as **Installed**, click **Next**.

The Network Configuration page opens.

Configure Network Configuration page - GV STRATUS server

This server has a control network connection only, so if it is configured correctly, there is no other configuration to do on this page.

1. Verify that the top port is configured correctly.

The top port is the port over which the K2Config application is communicating. If correctly configured, it is already assigned the control network IP address, as displayed on this page.

2. Click **Next**.

The File System Server Configuration page opens.

Configure File System Client Configuration page - GV STRATUS Proxy server

The screenshot shows a window titled "File System Client Configuration - 10.16.40.145". Inside, there's a section "File system client configuration" with the text "This file system client will connect to the file system server(s) listed here." Below this, there are three main fields: "File system server #1" with a text box containing "XXXXXXXXXX", "File system drive letter" with a dropdown menu showing "V", and a checkbox labeled "Reserved Bandwidth (rvio)" which is currently unchecked. To the right of the checkbox is a small "RVIOs" button. Below these fields, it says "File system client parameters : Configured correctly". At the bottom, there's a "Check" button and navigation buttons "< Back", "Next >", and "Cancel".

This system does not function as a file system server. It does function as a file system client, which is validated from this page.

1. Do not select **Reserved Bandwidth** unless instructed to do so by Grass Valley. This system is usually not configured for RVIO.
2. Click **Check**.
3. When the wizard reports that the configuration is correct, click **Next**.
If you get a "The V: will not be available until this device is rebooted..." message, you can safely continue now and reboot later when instructed to do so.

GV STRATUS server configuration is complete.

Related Topics

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

K2Config Proxy Storage set up

Only systems with proxy on a dedicated Proxy Storage system (B1, C1) require this process.

If you received your system pre-configured from Grass Valley, your Proxy Storage system is already set up, so you can skip these tasks. Otherwise, work through the tasks in this section sequentially to configure a non-redundant Proxy Storage system. This corresponds to a Tier 3 K2 SAN.

Related Topics

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

Prerequisites for initial configuration - Basic Proxy Storage

Before beginning your initial configuration, make sure the devices of the Proxy Storage system meet the following prerequisites.

Control point PC

- Ethernet cable connected
- Control Point software must be installed
- Control network IP address must be assigned
- There must be network communication over the control network with all other K2 devices
- Power must be on

Ethernet switch

- Ethernet cables connected
- Control network IP address must be assigned
- VLANs must be set up
- Trunks must be set up
- Power must be on

Core Services server

- Ethernet cables connected
- Fibre Channel cable must be connected
- Software must be installed, as from the factory, including QuickTime 7
- Control network IP address must be assigned
- Power must be on for all servers

K2 RAID chassis

- Fibre Channel cable(s) must be connected
- Ethernet cable(s) must be connected
- Power must be on

K2 RAID Expansion chassis (optional)

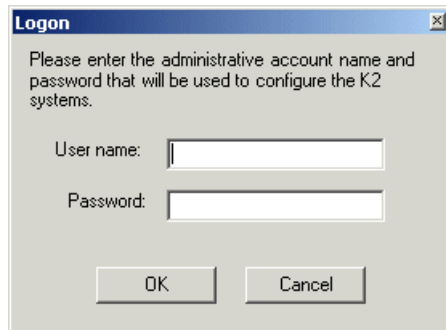
- Fibre channel cable(s) must be connected
- Power must be on

Defining a new Proxy Storage system

If you import a SiteConfig system description file in which the Proxy Storage system is defined, you do not need to define a new Proxy Storage system. You can skip this task and instead start by configuring the Proxy Storage file system server.

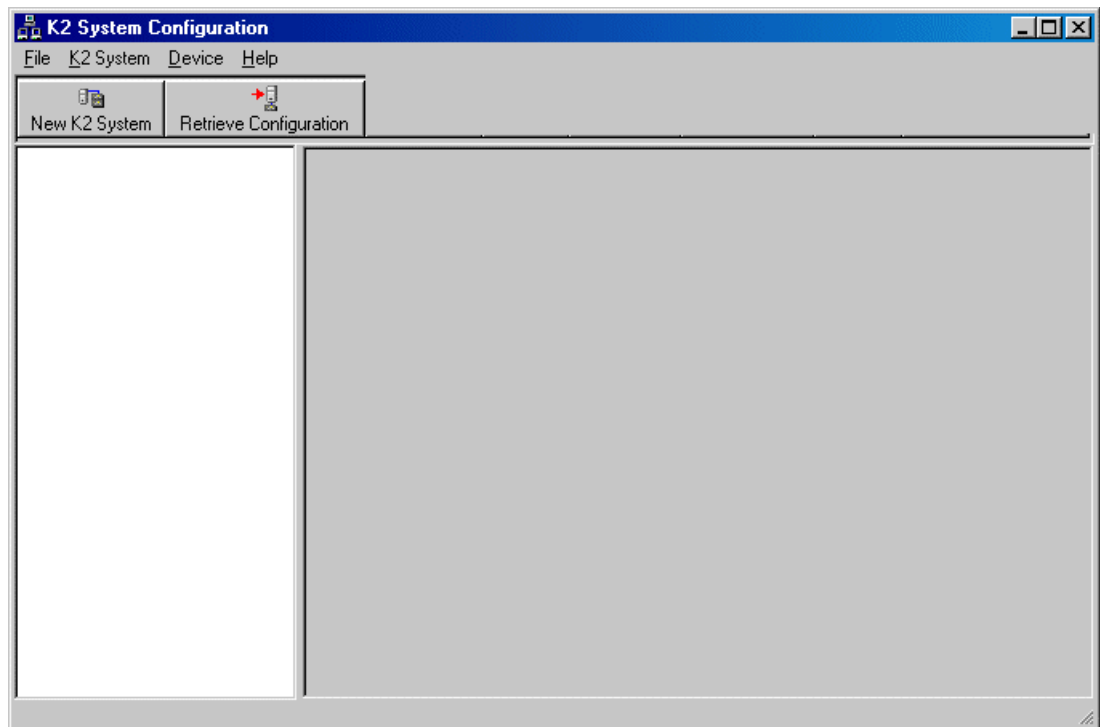
1. On the control point PC, open the K2Config application.

A log on dialog box opens.



2. Log on to the K2Config application with the Windows administrator account.

The K2Config application opens.



3. Click **New K2 System**.

The New K2 System wizard opens to page 1.

Configure New K2 System page 1 - Proxy Storage system

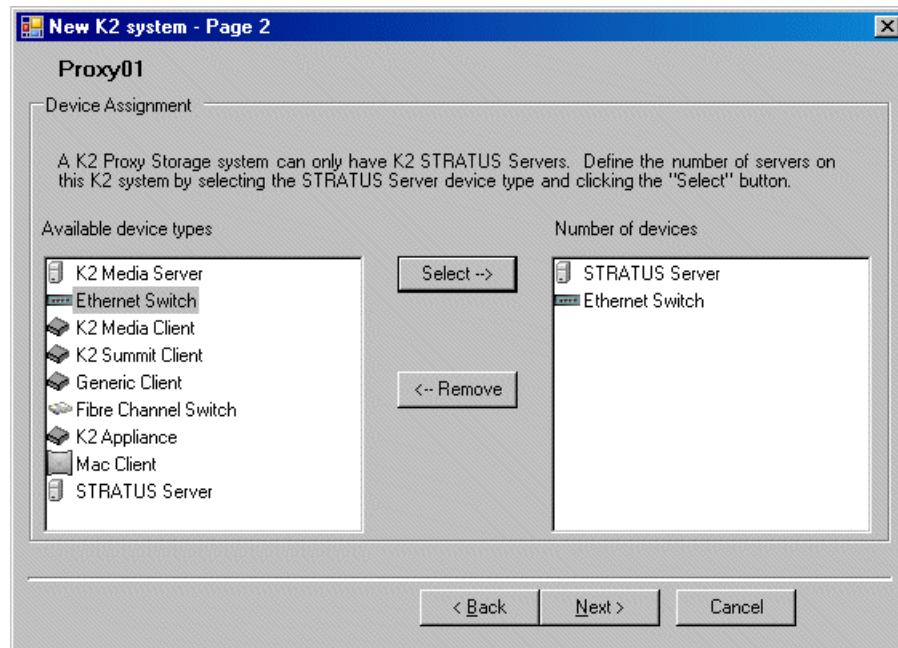
1. Create a name for your system and type it in the Name box.
2. Select **Proxy Storage**.

The Server redundancy option is not selected and is disabled. This option applies to media database redundancy. Since the Proxy Storage system has no media database, this setting is correct for both redundant and non-redundant Proxy Storage systems.

3. Click **Next**.

Page 2 opens.

Configure New K2 System page 2 - Proxy Storage system

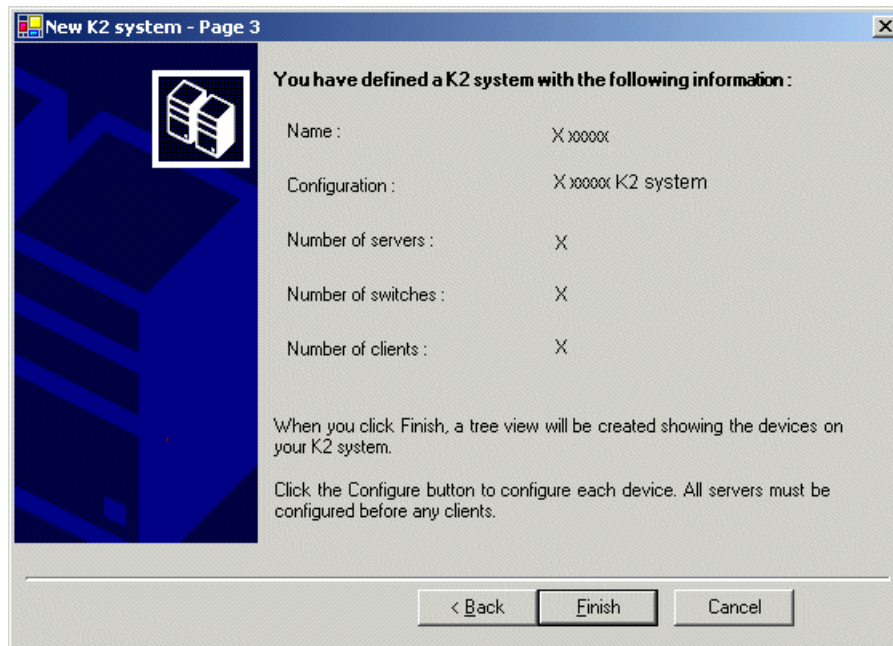


1. Move the following into the Number of devices box:

- One STRATUS server
- One Ethernet switch

2. Click **Next**.

Page 3 opens.

Configure New K2 System page 3 - Proxy Storage system

1. Review the information on this page and verify that you have correctly defined your SAN.
For a Proxy Storage system you should have the following:

- One Gigabit Ethernet switch
- One GV STRATUS server

2. Click **Finish**.

The Define New K2 Storage System wizard closes.

Your storage system appears in the tree view of the K2Config application.

Next, configure the server.

Configuring GV STRATUS Proxy Storage file system server - Part 1

1. In the K2Config application tree view, select [**STRATUS Server1**].
For Proxy Storage, this is the only server.
2. Click the **Configure** button.

The Configure K2 Server wizard opens to the Define server roles page.


Configure Define Server Roles page - GV STRATUS Proxy Storage file system server

Configure STRATUS Server - Define server roles

Hostname

Enter the hostname of the server to configure :

Server roles

 This server will be configured for the roles selected below

☒ SNFS File System Server

☒ Proxy Server

☐ FTP Server

Storage access

Select the method by which this client will access the shared storage:

☒ iSCSI

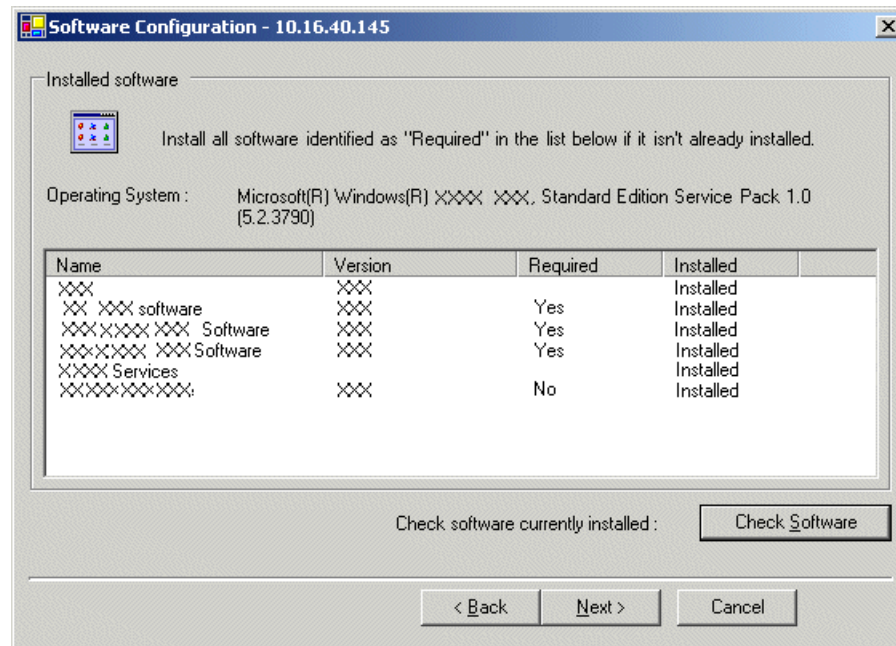
☐ Fibre Channel

< Back Next > Cancel

1. Enter the name of the server, as currently configured on the machine.
SNFS file system server is selected by default and disabled.
For a Proxy Storage file system server, select **Proxy storage server**.
There is no Media Database Server in a Proxy Storage system.

2. Click **Next**.

The Software Configuration page opens.

Configure Software Configuration page

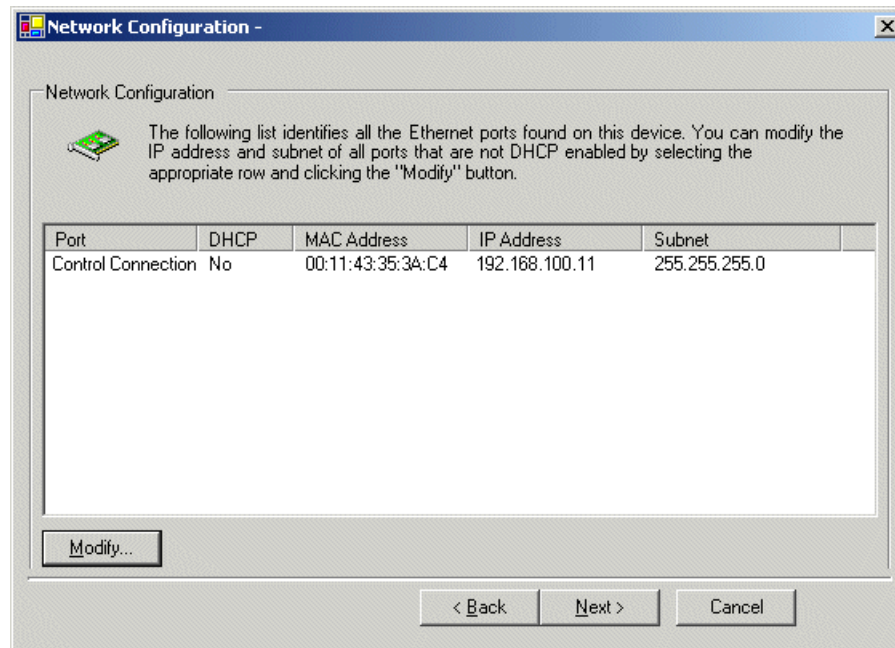
This page checks for the software required to support the roles you selected on the previous page.

NOTE: MPIO software is required on servers in redundant systems.

1. If software with **Yes** in the Required column reports as **Not Installed**, install the software.
2. Click **Check Software**.
3. When all required software reports as **Installed**, click **Next**.

The Network Configuration page opens.

Configure Network Configuration page - GV STRATUS server



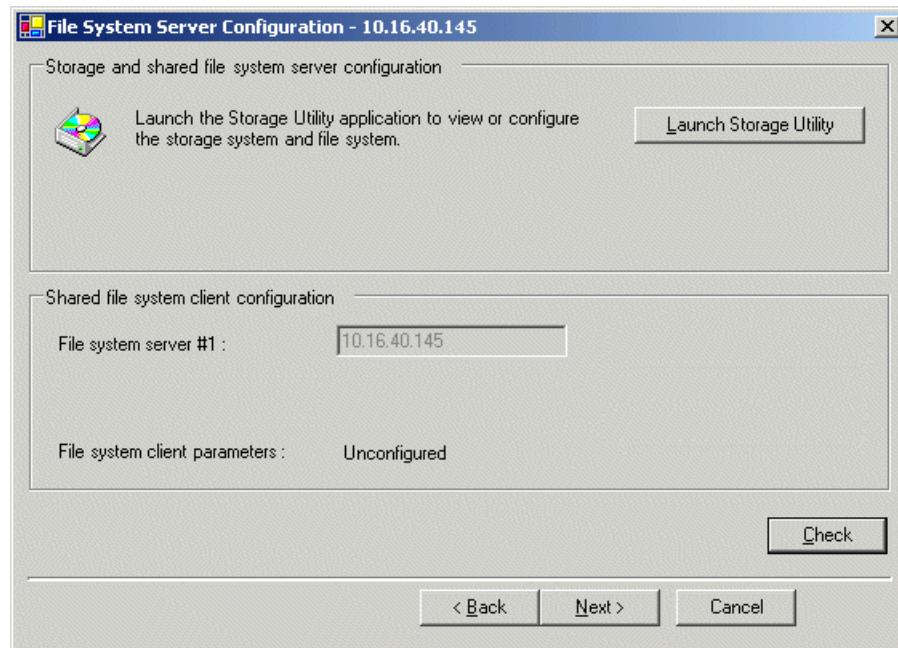
This server has a control network connection only, so if it is configured correctly, there is no other configuration to do on this page.

1. Verify that the top port is configured correctly.

The top port is the port over which the K2Config application is communicating. If correctly configured, it is already assigned the control network IP address, as displayed on this page.

2. Click **Next**.

The File System Server Configuration page opens.

Configure File System Server Configuration page - GV STRATUS Proxy Storage file system server

This page checks on the file system server role. The server also functions as a file system client, which is also checked from this page.

1. Click **Launch Storage Manager**.
Storage Utility opens.
2. Leave the Configure K2 Server wizard open while you use Storage Utility.
When you are done with Storage Utility, you continue with the wizard.

Next, use Storage Utility to configure the RAID storage and file system.

Configuring RAID

Use Storage Utility to complete the configuration of the K2 RAID storage devices, as explained in the following topics.

Configuring RAID network and SNMP settings - Basic

- Fibre Channel cable(s) must be connected
- Ethernet cable(s) must be connected
- Power must be on
- Fibre channel cable(s) must be connected
- Power must be on

Use the Storage Utility to configure the following settings for the K2 RAID controller:

- IP address
- Subnet mask
- Gateway Address

- SNMP trap destinations

For K2 RAID, network and SNMP settings are set and stored on the RAID controller module, so the combined RAID storage devices, including the optional Expansion chassis, exist as a single entity on the control network.

The RAID storage device is configured by default for the SNMP community name “public”. If your site’s policies require using a different SNMP community name, contact your Grass Valley representative.

1. Launch Storage Utility from the K2Config application.
2. As prompted, wait while Storage Utility gathers system information, then Storage Utility opens.
3. In Storage Utility tree view, expand the node for the K2 RAID, right-click the icon for a RAID controller, and select **Configuration | Network Properties**.

The Controller Network Settings dialog box opens.

Controller Network Settings

Controller Slot Number: 0

Network Configuration

IP Address: 192 . 168 . 100 . 51

Subnet Address: 255 . 255 . 254 . 0

Gateway Address: 0 . 0 . 0 . 0

SNMP Configuration

Trap Address 1: 10 . 16 . 41 . 43

Trap Address 2: 0 . 0 . 0 . 0

Trap Address 3: 0 . 0 . 0 . 0

OK Cancel

4. In the Controller Slot Number field enter **0** and then press **Enter**.
The settings from controller 0 are loaded into the Controller Network Settings dialog box and are available for you to modify.
5. Enter the control network IP address and other network settings.

6. For SNMP Configuration, enter the IP address of the SNMP manager PC.

You can also enter IP addresses for other SNMP managers to which you want to send SNMP trap messages.

Refer to related topics about Grass Valley recommended deployment and monitoring solutions in the "Release Notes" section of the K2 Topic Library.

7. Click **OK** to save settings and close.
8. In Storage Utility click **View | Refresh**.

Next, bind disk modules.

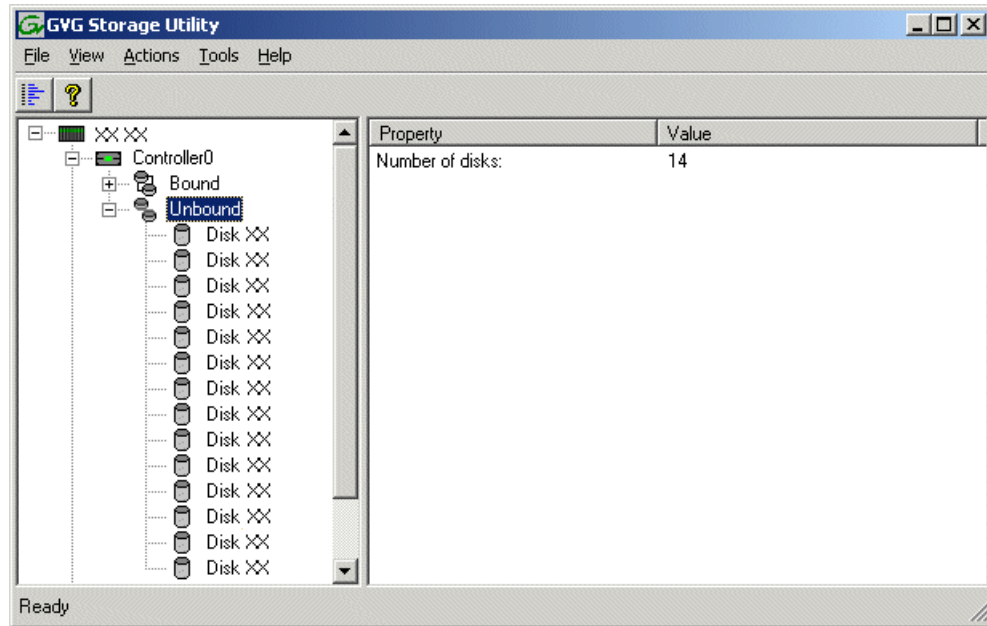
Binding disk modules - Proxy Storage

- Fibre Channel cable(s) must be connected
- Ethernet cable(s) must be connected
- Power must be on
- Fibre channel cable(s) must be connected
- Power must be on

NOTE: Binding destroys all user data on the disks.

1. If you have not already done so, launch Storage Utility from the K2Config application.
2. As prompted, wait while Storage Utility gathers system information, then Storage Utility opens.

3. In the Storage Utility main window, identify bound RANKs and unbound disks by their placement in the hierarchy of the tree view. In the following illustration, disk numbers are represented by “XX”.



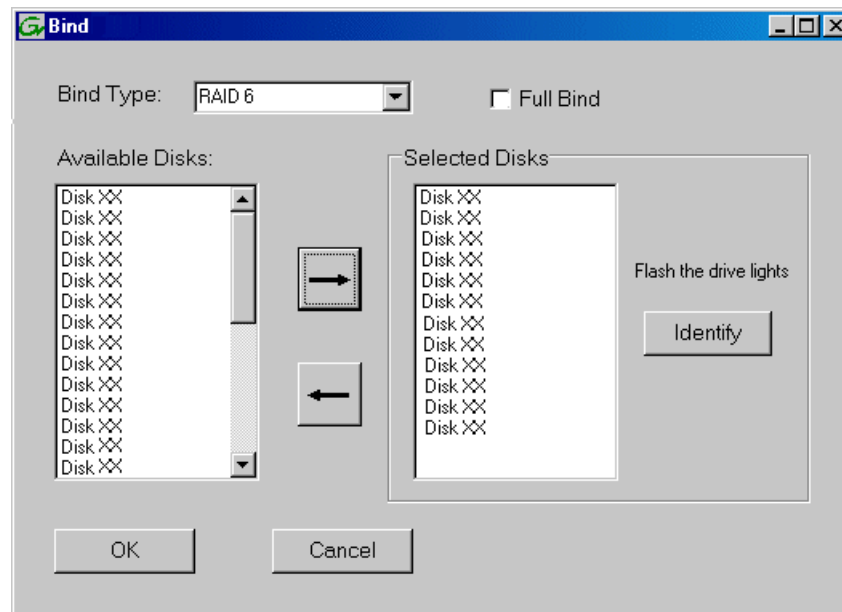
Proxy systems store media files across both the primary RAID chassis and the optional Expansion chassis. In addition, file system metadata files and journal files are mixed in with the media files.

The RAID configuration is the same on all chassis. Each chassis contains disks, which are bound as RAID 6 in a RANK of twelve disks. One twelve disk RANK fills one chassis.

4. Right-click the **Unbound** node for a controller, then select **Bind** in the context menu.

If the RAID chassis has two controllers, both controllers are represented by the single “Controller” node.

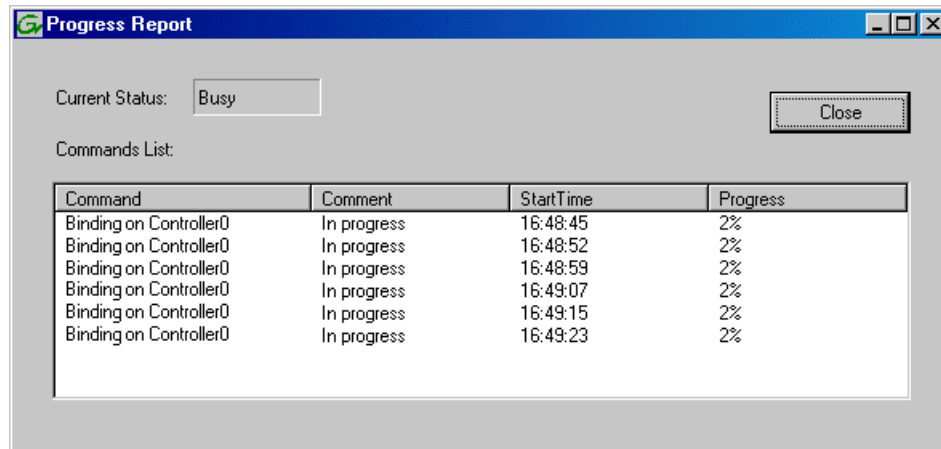
The Bind dialog box opens showing all unbound disks for the controller listed in the Available Disk list.



5. Leave **Full Bind** unchecked.
6. In the **Bind Type** drop down box, select **RAID 6**.
7. In the Available Disks box, select twelve contiguous disks at the top of the list.
Use ‘shift-click’ or ‘control-click’ to select disks.
8. Click the add (arrow) button to add disks to the Selected Disks list.

NOTE: *As an aid in identifying a disk module’s physical location, select it in the Selected Disks list, then click Identify Disks. This causes the disk drive light to flash.*

9. Click **OK** to close the Bind dialog box and begin the binding process.
The Progress Report dialog box opens, showing the status of the binding process.



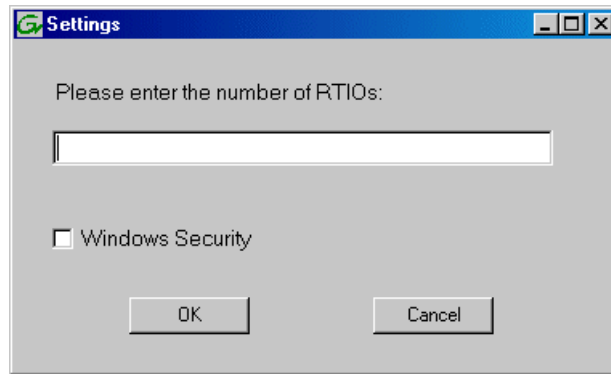
10. Close the Progress Report and repeat these steps for other unbound disks.
If specified by your system design, you can bind some disks as Hot Spares.
When you are done, if you did not bind any extra Hot Spares, you should have the following results:
The disks in the primary RAID chassis and in optional Expansion chassis should be bound as RAID 6 RANKs, with twelve disks to a RANK.
11. Click **Close** in Progress Report window.
12. Restart the GV STRATUS server.
NOTE: Make sure start up processes on the server are complete before proceeding.

Next, create a new file system.

Creating a new file system - Proxy Storage

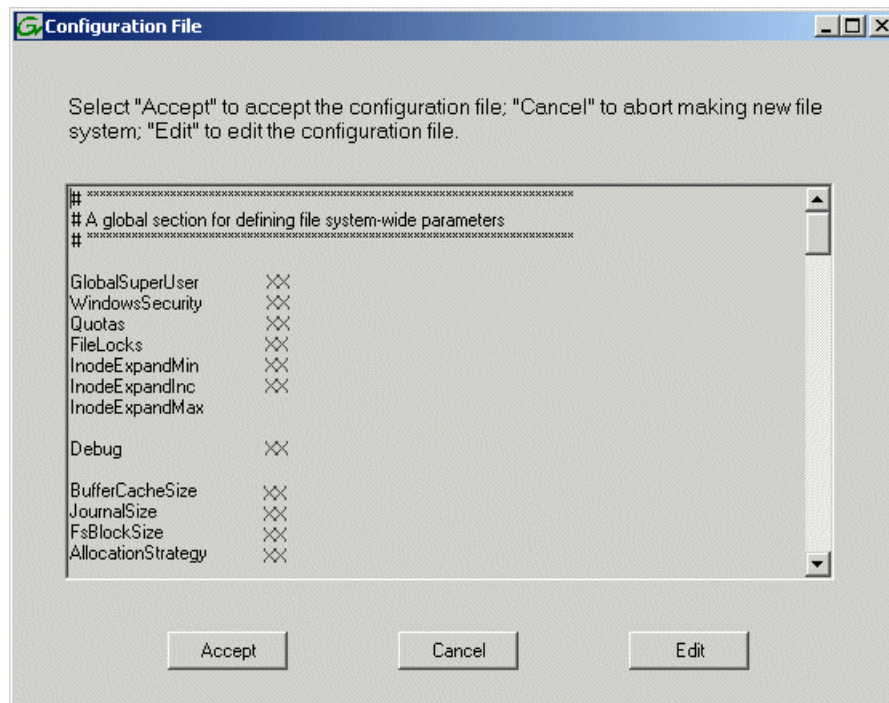
- Fibre Channel cable(s) must be connected
 - Ethernet cable(s) must be connected
 - Power must be on
 - Disks must be bound
 - Fibre channel cable(s) must be connected
 - Power must be on
 - Disks must be bound
1. If you have not already done so, launch Storage Utility from the K2Config application.
 2. As prompted, wait while Storage Utility gathers system information, then Storage Utility opens.

3. In Storage Utility, click **Tools | Make New File System**.
The Setting dialog box opens.



4. For a Proxy Storage system, enter zero as the Real Time Input/Output (RTIO) rate.
5. Leave Windows Security unchecked.
6. Click **OK**.

The Configuration File dialog box opens.



The configuration file for the media file system is displayed.

7. Verify media file system parameters.
Do not edit the configuration file for the media file system.

8. Click **Accept**.

A "...Please wait..." message box displays progress and a "...succeeded..." message confirms the process is complete.

A message informs you that you must restart the server, however the restart at the end of the Configure K2 Server wizard suffices, so you do not need to restart now.

9. Close the Storage Utility.

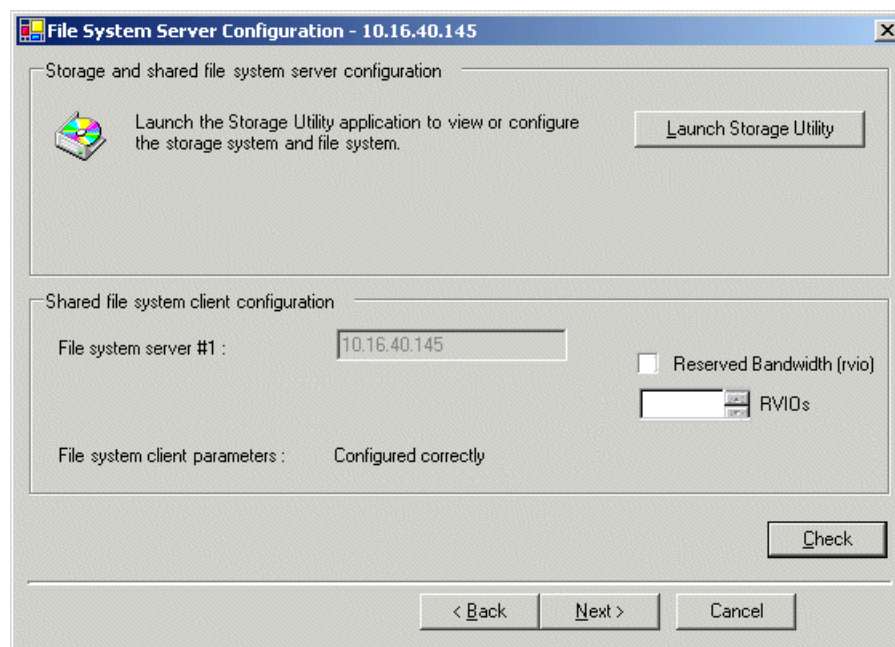
NOTE: Do not attempt to start SAN-attached systems or otherwise bring the SAN online until instructed to do so by the documented procedure.

Next, continue with configuring the server using the K2Config application.

Configuring GV STRATUS Proxy Storage file system server - Part 2

Configure File System Server Configuration page - GV STRATUS Proxy Storage file system server

- Network and SNMP must be settings configured
- Disks must be bound
- A new file system must be made



This page checks on the file system server role. The server also functions as a file system client, which is also checked from this page.

1. In K2Config open the server's File System Server Configuration page, if the page is not already open.
2. Do not select **Reserved Bandwidth** unless instructed to do so by Grass Valley. This system is usually not configured for RVIO.
3. Click **Check**.

4. When the wizard reports that the configuration is correct, click **Next**.

If you get a “The V: will not be available until this device is rebooted...” message, you can safely continue now and reboot later when instructed to do so.

GV STRATUS server configuration is complete.

Related Topics

[Synchronizing K2Config information to GV STRATUS Control Panel](#) on page 452

GV STRATUS Control Panel system configuration process

All systems require this process. Use GV STRATUS Control Panel to configure the GV STRATUS system for your site's workflow.

If you received your GV STRATUS system pre-configured from Grass Valley, skip configuration tasks and do the test tasks only.

1. [Configure Control Panel Service Host in applications](#) on page 642. All systems require this process. Configure SiteConfig and K2Config to reference the Control Panel Service Host.
2. [Install the GV STRATUS Control Panel application with SiteConfig](#) on page 642. All systems require this process.
3. [Configuring GV STRATUS Control Panel: Required settings](#) on page 644. All systems, all workflows, require this process. Configure GV STRATUS Database, proxy, K2 Summit, and other settings that the GV STRATUS system requires regardless of the site's unique workflow or system design.
4. [Test GV STRATUS configuration settings](#) on page 657. All systems require this process.
5. [Reference to settings: Required and optional](#) on page 247. All systems require GV STRATUS Control Panel settings, as appropriate for the site's unique workflow and GV STRATUS licenses.

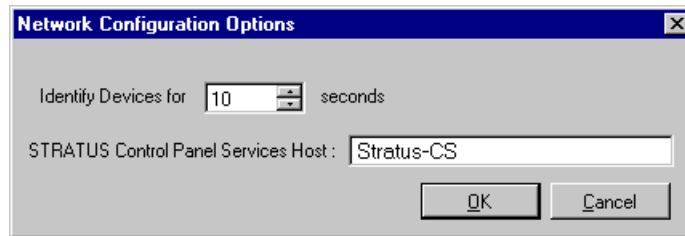
Configure Control Panel Service Host in applications

All systems require this process. Configure SiteConfig and K2Config to reference the Control Panel Service Host.

The GV STRATUS server with the SiteConfig role of Common Services hosts the Control Panel Service. Typically, this is the GV STRATUS Core server. To communicate configuration information, multiple applications must be configured to reference this GV STRATUS server.

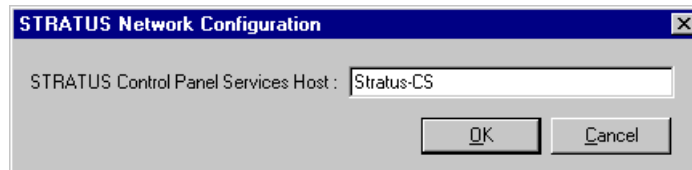
1. Enter the GV STRATUS Core server name in SiteConfig as follows:

In the SiteConfig application, click **Tools | Options | Network Configuration**.



2. Enter the GV STRATUS Core server name in K2Config as follows:

In the K2Config application, click **STRATUS | Network Configuration**.



Install the GV STRATUS Control Panel application with SiteConfig

All systems require this process.

- The devices to which you are installing software must be in a deployment group.
- For the software you are installing, the managed package must be added to the deployment group.
- The SiteConfig "Check Software" operation must have been recently done on the devices to which you are installing software.
- The PC to which you are installing the application must meet system requirements.
- The PC to which you are installing the application must have the SiteConfig role of GV STRATUS Control Panel.
- The *GrassValley_STRATUS_ControlPanel_x.x.x.cab* must be added to the deployment group. Refer to release notes for version information.

With the installation instructions in this section, you use SiteConfig from a network connected control point PC and remotely install/upgrade software simultaneously on your system devices. This is the recommended process for software installation and upgrades. When installing the GV

STRATUS application or the GV STRATUS Control Panel application, if SiteConfig installation is not possible, you may install manually on the local PC. You must uninstall before installing.

1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are installing software. You can select a Device node, a Deployment Group node, or the All Deployment Groups node.

The corresponding software deployment tasks are displayed in the Tasks list view.

2. Identify one or more deployment tasks listed as "Install" in the Action column.
3. For the software you are installing, select the **Deploy** check box in the row for the install task.
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
4. Before starting the deployment session, verify the following for the installation deployment tasks:
 - The Deploy checkbox is selected.
 - The software package is the correct version.
 - The Action column reports Install.
 - The Status column indicates the planned icon.
 - The Details column does not indicate that deployment options are required.

5. Click the **Start Deployment** button.

Deployment tasks run and software is installed. Progress is reported in both the Status and Details columns.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Related Topics

[System requirements for GV STRATUS client PC](#) on page 43

Logging on to the GV STRATUS Control Panel application

When you log on, use administrator credentials that give you access to all your GV STRATUS system devices.

1. From the Windows desktop, do one of the following:


- Open the **STRATUS Control Panel** icon  shortcut.
- Click **Start | All Programs | Grass Valley** and click the **STRATUS Control Panel** icon. 

A Log On dialog box opens.

2. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

If you have successfully logged on before, select your user name from the drop-down list.

3. Enter your password.
4. Verify that the application is correctly referencing the Control Panel Services Host as follows:
 - a) If not already showing, click the **Options** button  to show settings.
 - b) Verify or enter the hostname (do not enter the IP address) of the GV STRATUS server with the SiteConfig role of GV STRATUS Control Panel Service. This is the Control Panel Services Host. In most systems this is the main GV STRATUS Core server.

If you have successfully logged on before, your hostname is automatically populated. You can select a hostname from the drop-down list if you have previously logged on to multiple hosts in your operation.

5. Click **Log On**.

The application opens.

Related Topics

[About groups and users on a GV STRATUS system](#) on page 30

Configuring GV STRATUS Control Panel: Required settings

All systems, all workflows, require this process. Configure GV STRATUS Database, proxy, K2 Summit, and other settings that the GV STRATUS system requires regardless of the site's unique workflow or system design.

If you received your system pre-configured from Grass Valley, your required settings are already configured, so you can skip these tasks. Otherwise, work through the topics in this section.

This section provides the configuration steps that are required for all systems.

Related Topics

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

Prepare for configuration

Do the following to verify systems and tools are ready for configuration:

- In the GV STRATUS Control Panel, do one or both of the following:
 - If your system has a K2 SAN, click **Core | K2 Storage | K2 SAN Storage** and verify that the information for the K2 SAN is the same information that is in K2Config. If the information is the same, it means that the Control Panel application is correctly reading the information from the K2Config application.
 - If your system has a standalone K2 Summit system, click **Core | K2 Storage | K2 Standalone Storage** and verify that the information for the K2 Summit system is the same information that is in SiteConfig. If the information is the same, it means that the Control Panel application is correctly reading the information from the SiteConfig application.
- From each machine in the GV STRATUS system, verify that you can ping all the devices that the GV STRATUS server needs to communicate with over the control network.
- For the machines that need to communicate with a Proxy server, verify you can log in to that Proxy server using the credentials that the system will be using.

Begin by configuring STRATUS Core Services settings.

Related Topics

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

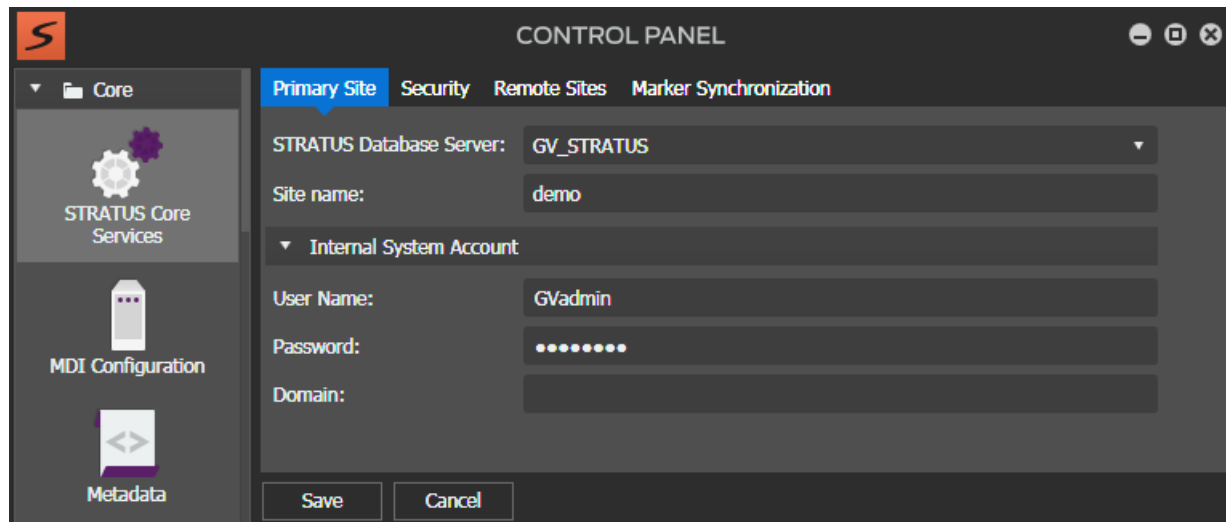
Configuring STRATUS Core Services settings: Required

All systems, all workflows, require this process.

If you received your system pre-configured from Grass Valley, your STRATUS Core Services settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your STRATUS Core Services.

To locate these settings, click **Core | STRATUS Core Services | Primary Site**

1. In the Control Panel application, open General settings.



2. Configure as follows:

Setting or button	Description
GV STRATUS Core Server	The GV STRATUS server with SiteConfig role of GV STRATUS Core Services. In a typical system, select the server from the drop-down list. The server or servers available on this drop-down list are provided by SiteConfig. For some system configurations, you can also enter the GV STRATUS server manually.
GV STRATUS Database Server	The GV STRATUS server with SiteConfig role of GV STRATUS Database. In a typical system, select the server from the drop-down list. The server or servers available on this drop-down list are provided by SiteConfig. The GV STRATUS Database Server is currently supported on the GV STRATUS Express and Core Servers only.
Site name	Customizable name that can be set for the local GV STRATUS site.
Internal System Account User Name, Password, Domain	The internal system account is the account that the GV STRATUS system uses to access assets and some internal system functions. By default this is the GVAdmin account. If your site policies require a different account, such as a fully qualified domain account, that account must be configured here and throughout the GV STRATUS system. <i>NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.</i>
Save	Saves current settings.
Cancel	Returns settings to their last saved state.

3. Click **Save**.

4. If you changed Marker Synchronization settings, restart the GV STRATUS Core server and the K2 system.

Next, configure Proxy Config settings.

Related Topics

[STRATUS Core Services settings](#) on page 247

[About Control Panel, SiteConfig, and K2Config settings](#) on page 364

[Rules engine settings](#) on page 284

[Enabling and disabling rules](#) on page 528

Configuring Proxy Config settings: Required

All systems, all workflows, require this process.

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

NOTE: A GV STRATUS system must have only one proxy location and server, so these settings apply to all K2 Summit systems, both standalone and SAN.

NOTE: On an operational system, consult with Grass Valley Support before attempting to change Location of Proxy Assets, CIFS Server, or HTTP Server settings. Changing these settings requires a purge of the GV STRATUS database and a new K2 storage file system, which results in a loss of high-resolution and low-resolution media. Grass Valley Support can provide methods to avoid this loss of media.

To locate these settings, click **Core | Proxy Config**

1. In the Control Panel application, open Proxy Config settings.

The screenshot shows the 'Proxy Settings' window with the following configuration:

- Proxy Settings** (Active Tab)
- Proxy Server Settings**
 - Location of Proxy Assets: KULAS-PROXY-1
 - CIFS Server: KULAS-PROXY-1
 - HTTP Server: KULAS-PROXY-1
- K2 Summit Settings**
 - ☒ Enable Proxy Creation
- Proxy Encoder Settings**
 - ☒ Enable Proxy Encoders
- Buttons:** Save, Cancel

NOTE: GV STRATUS versions lower than 3.0 had only one Proxy Server setting. With version 3.0 and higher, the CIFS Server and HTTP Server settings must be configured to replace the Proxy Server setting.

2. If your GV STRATUS system stores its proxy on a GV STRATUS Express server, configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.

3. If your GV STRATUS system stores its proxy on an online or production K2 SAN (A1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.

4. If your GV STRATUS system stores its proxy on a dedicated Proxy Storage system (B1, C1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.

5. On the **Test Connections** tab, click **Test Connections**.

The GV STRATUS system populates a list of K2 Storage devices. Verify that this list is correct.

6. Select **Enable Proxy Creation**.

This allows K2 Summit systems to create proxy assets when high resolution assets are recorded.

7. Select **Enable Proxy Encoders**.

This allows the system to create proxy assets for any high resolution assets that do not currently have a corresponding low-resolution proxy asset. This setting applies to proxy created by Render Engine servers. If your system instead has Proxy Encoder servers, which are no longer supported, the setting then applies to proxy created by your Proxy Encoder servers.

8. Click **Save**.

9. If you changed Location of Proxy Assets, CIFS Server, or HTTP Server settings, under supervision of Grass Valley Support, you must purge the GV STRATUS database and make a new K2 storage file system.

If you are configuring K2 Summit MDI settings, you can make those settings first before doing this step. This step provides the required restart after configuring K2 Summit MDI settings.

Next, do one of the following:

- If your GV STRATUS system does not access any standalone K2 Summit systems, skip ahead and configure Summit MDI SAN settings.

- If your GV STRATUS system accesses one or more standalone K2 Summit systems, configure Summit MDI standalone settings.

Related Topics

[Proxy Settings](#) on page 291

[HTTP server overview](#) on page 180

Configuring Summit MDI settings: Required for standalone

All systems with one or more standalone K2 Summit systems require this process.

If you received your system pre-configured from Grass Valley, your Summit MDI settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Summit MDI settings.

To locate these settings, click **Core | MDI Configuration | Add | Summit**

1. In the Control Panel application, open Summit MDI Configuration settings.
2. Configure one Summit MDI for each standalone K2 Summit system on your GV STRATUS system.

When you have multiple Summit MDIs, they must each have their own process port number. For this purpose, numbers 9160 - 9169 increment in the **Port** field.

3. Configure as follows:

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name. The MDI name could be renamed later, if desired. NOTE: After renaming the Summit MDI, you must restart the Render Engine server and its services. Then, reconfigure other settings on the Control Panel (such as Send Destinations, Rules, K2 Central storage, etc.) to use the new Summit MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The process port for this instance of the MDI type. Each instance must have its own process port. Port numbers must be in range 9160-9169.
Type of K2 device	Specifies either SAN-attached K2 Summit system, Standalone K2 Summit system, K2 Central system, or Third Party Storage system. When Standalone is selected, settings are as follows.
Select K2 Standalone	The standalone K2 Summit system that this MDI accesses.
UNC Path	The UNC path to the standalone K2 Summit system.
User Name	The user name that this MDI uses to access the K2 Summit system. This is the internal system account, which by default is GVAdmin.
Domain	If on a domain, the domain that manages the account that this MDI uses to access the K2 Summit system. NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.
Password	The password that this MDI uses to access the K2 Summit system.
FTP Server Name	The FTP server name for the remote K2 Summit system. For the typical system where there is a separate FTP network, this is the name of the K2 SAN's FTP server with the _he0 suffix added. The _he0 suffix specifies the FTP network.
Maximum concurrent transfers	The maximum number of concurrent transfers allowed. The maximum is set in K2Config. You may select the maximum or a lesser number as designed for your system. The number of concurrent transfers as well as the device status can be checked once the system is configured in Resource Monitor of the GV STRATUS Control Panel.
FTP User Account	The FTP user name for the K2 Summit system this MDI accesses. Typically this is movie.

Setting or button	Description
FTP Password	The FTP password for the K2 Summit system this MDI accesses. When this field is blank the system automatically uses the default password.

4. Click **Save**.
5. If you changed MDI settings, you must restart the GV STRATUS Core server system and the K2 Summit system. If SAN MDI settings, you must restart the entire K2 SAN system, including K2 Media Servers, attached K2 Summit systems, and other SAN clients.
If you are changing multiple K2 Summit MDI settings, you can make all those settings first before restarting these systems. Restarting the systems once is sufficient for multiple K2 Summit MDI settings changes.
6. Repeat steps to configure an MDI for each standalone K2 Summit system on your GV STRATUS system.

Next, if your GV STRATUS system accesses a K2 SAN, configure Summit MDI SAN settings.

Related Topics

[MDI and Encoder logical names convention](#) on page 373

[Summit MDI standalone settings](#) on page 255

Configuring Summit MDI settings: Required for SAN

All systems with one or more K2 SANs require this process.

If you received your system pre-configured from Grass Valley, your Summit MDI settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Summit MDI settings.

To locate these settings, click **Core | MDI Configuration | Add | Summit**

1. In the Control Panel application, open **Summit MDI Configuration** settings.

MDI Configuration

MDI Type: Summit

MDI Name: SummitMDI

Hostname of device running the MDI:

Port number: 9161

Type of K2 device: ☒ SAN ☐ Standalone ☐ K2 Central ☐ Third Party Storage

SAN Client Selection

SAN Name:

Primary Device:

▼ Account used to connect to K2 Standalone or SAN

User Name: GVAdmin

Domain:

Password:

FTP Transfer Server

FTP Server Name: kl_Summit_10_he0

Maximum concurrent transfers : 4

FTP User Account: movie

FTP Password:

Save Cancel

2. Designate one of the SAN-attached K2 Summit systems to be the managed device for the entire K2 SAN storage system. Configure a Summit MDI for only that K2 Summit system on the K2 SAN.
 - If you have no other K2 Summit systems, neither standalone systems nor K2 SAN systems, when you configure the **Port** field, accept the default value. If required by your system design, you can configure a port number in the allowed range.
 - If you have multiple standalone K2 Summit systems, multiple K2 SAN systems, a combination of standalone and K2 SAN systems, a K2 Central system, or a SMB storage system, each system must have its own Summit MDI.

3. Configure as follows:

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	<p>A name for this instance of the MDI type. Do not use spaces in the MDI name. The MDI name could be renamed later, if desired.</p> <p>NOTE: After renaming the Summit MDI, you must restart the Render Engine server and its services. Then, reconfigure other settings on the GV STRATUS Control Panel (such as Send Destinations, Rules, K2 Central storage, etc.) to use the new Summit MDI name.</p>
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The process port for this instance of the MDI type. Each instance must have its own process port. Port numbers must be in range 9160-9169.
Type of K2 device	Specifies either SAN-attached K2 Summit system , Standalone K2 Summit system, K2 Central system, or Third Party Storage system.
SAN Name	The name of the K2 SAN, as named in K2Config. You can also enter the name of K2 Central system or third party storage device, if you have them in your operation.
Primary Device	The SAN-attached K2 Summit system designated to be the managed device for the entire K2 SAN storage system. Or the managed device for K2 Central or the third party storage system in your operation.
UNC Path	The UNC path for a connection to the SMB Storage. The field for UNC path is only available when the Third Party Storage option is selected.
User Name	The user name that this MDI uses to access the K2 Summit system. This is the internal system account, which by default is GVAdmin.
Domain	If on a domain, it must be a fully qualified domain that this MDI uses to access the designated managed device. This field should only be set for fully qualified domain of third party storage system in your operation.
Password	<p>The password that this MDI uses to access the K2 Summit system.</p> <p>NOTE: Do not enter a domain or otherwise modify account settings except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.</p>

Setting or button	Description
FTP Server Name	The FTP server name for the remote K2 Summit system. The drop-down list consists of all FTP servers belonging to the Summit SAN. For the typical system where there is a separate FTP network, this is the name of the K2 SAN's FTP server with the _he0 suffix added. The _he0 suffix specifies the FTP network.
Maximum concurrent transfers	The maximum number of concurrent transfers allowed. The maximum is set in K2Config. You may select the maximum or a lesser number as designed for your system. The number of concurrent transfers as well as the device status can be checked once the system is configured in Resource Monitor of the GV STRATUS Control Panel.
FTP User Account	The FTP user name for the K2 Summit system this MDI accesses. Typically this is movie.
FTP Password	The FTP password for the K2 Summit system this MDI accesses. When this field is blank the system automatically uses the default password.

4. Click **Save**.
5. If you changed MDI settings, you must restart the GV STRATUS Core server system and the K2 Summit system. If SAN MDI settings, you must restart the entire K2 SAN system, including K2 Media Servers, attached K2 Summit systems, and other SAN clients.
If you are changing multiple K2 Summit MDI settings, you can make all those settings first before restarting these systems. Restarting the systems once is sufficient for multiple K2 Summit MDI settings changes.
6. If you have multiple K2 SAN systems, repeat steps to configure an MDI for each K2 SAN system on your GV STRATUS system.

Related Topics

[MDI and Encoder logical names convention](#) on page 373

[Summit MDI SAN settings](#) on page 257

Configuring licenses and roles settings: Required

All systems require this process. Assign GV STRATUS licenses and roles to groups and users.

- The groups and users to which you are assigning licenses and roles must be set up, either on a workgroup or on a domain, on the following:
 - The GV STRATUS server with role of Common Services.
- The GV STRATUS server with role of Common Services must have the site's GV STRATUS licenses installed.

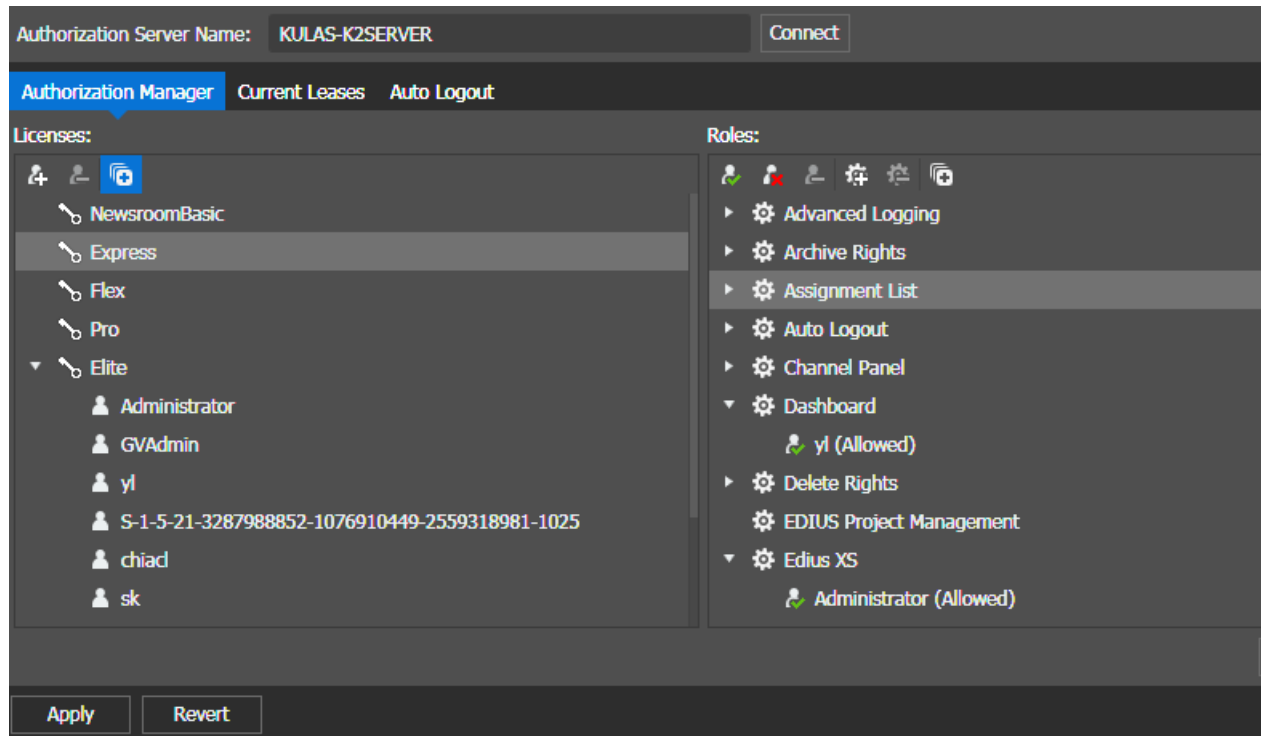
If on a network Workgroup, to configure Authorization Manager settings, you must be running GV STRATUS Control Panel on the GV STRATUS Core server.

When you receive your GV STRATUS system from Grass Valley, it is configured to workgroup, with all licenses and roles assigned to GVAdmin by default. Change the default configuration as appropriate for your site.

If you have temporary GV STRATUS licenses, GV STRATUS Control Panel allows you to configure Authorization Manager settings while you are waiting to install your permanent licenses. Authorization Manager displays indicators informing you of your license status.

To locate these settings, click **General | License Management | Authorization Manager**


1. In the GV STRATUS Control Panel application, open **License Management** settings.



2. On the Authorization Manager tab, enter the following:
 - **Authorization Server Name:** The name of GV STRATUS server with role of Common Services.
3. Click the following:
 - **Connect:** Connects to the GV STRATUS server and populates settings. If the Connect button is disabled, it means you are already connected.
4. Assign licenses according to the following description:
 - **Licenses:** Settings to assign licenses to user groups. When you select a license and click **Assign**, you can use standard Windows operating system processes to assign a group to the license. This can be either Workgroup or Domain, as appropriate for your site's user accounts. When you first assign a license to a group, all users in the group are assigned all of that license's roles. These are floating license so you may over-assign. If you over-assign you must ensure that the number of licenses checked out at any one time does not exceed the number of licenses available.

5. Assign roles according to the following description:

- **Roles:** Settings to assign tools and other functionality to users or groups. When you expand a node and select one of its groups or users, you can allow or deny the group or user the use of that operation. You can also remove the group or user from the node. If a tool is not assigned to a user, when that user logs into the GV STRATUS application, the tool does not appear in the GV STRATUS application. If a new version of GV STRATUS software adds a role to a license, make sure it is assigned correctly to existing users.

You can click the **Expand All**  button to expand all licenses and roles on the **Authorization Manager** tab.

6. Click **Apply** to save your current settings, or click **Revert** to return to the last saved settings.

Related Topics

[Identify test applications and setup](#) on page 199

[GV STRATUS roles matrix](#) on page 158

[Adding a custom role](#) on page 394

Test GV STRATUS configuration settings

All systems require this process.

Whether you received your system pre-configured from Grass Valley or you configured your system on site, you should test the system operation before proceeding.

Related Topics

[GV STRATUS client test](#) on page 201

[GV STRATUS proxy encoding test](#) on page 201

Configure optional GV STRATUS Control Panel settings

All systems require GV STRATUS Control Panel settings, as appropriate for the site's unique workflow and GV STRATUS licenses.

If you received your system pre-configured from Grass Valley, your site's settings are already configured, so the system should not need any additional settings. Otherwise, refer to topics about Control Panel settings and configure as needed.

Control Panel settings are categorized as follows:

- **Required settings** — These are settings that must be configured for all GV STRATUS systems, regardless of the site's unique workflow and GV STRATUS license requirements.
- **Optional settings** — These are settings that might or might not be necessary, depending on the site's unique workflow and GV STRATUS license requirements.

Topics about configuring required settings provide the proper sequence and specific instructions for the required settings.

Topics that reference Control Panel settings describe all settings on all Control Panel configuration pages, including both required and optional settings. Choose the optional settings that are relevant to your site's unique workflow and GV STRATUS license requirements.

Related Topics

[Custom Metadata settings](#) on page 267
[Engines settings](#) on page 279
[Rules settings](#) on page 305
[Locations Config settings](#) on page 307
[Web Monitor Config settings](#) on page 312
[EDIUS Project Settings](#) on page 117
[Ingest settings](#) on page 315
[Rundown settings](#) on page 324
[RMI settings](#) on page 330
[Router settings](#) on page 331
[Segmentation settings](#) on page 336

SiteConfig software deployment process

All systems require this process when updating to new versions of Grass Valley product software.

1. [Verify software roles](#) on page 658. All systems require this process.
2. [Distribute devices into deployment groups](#) on page 659. All systems require this process.
3. [Stage software for deployment](#) on page 660. All systems require this process.
4. [Deploy software to GV STRATUS devices](#) on page 672. All systems require this process.

Verify software roles

All systems require this process.

Verify that the roles assigned to your GV STRATUS devices in SiteConfig are correct for your system design.

1. In the **Software Deployment | Devices** tree view, expand a device's node to expose the roles currently assigned to the device.
2. If the roles are not correct for your system design, add or remove roles accordingly.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375
[Adding a software role to a device](#) on page 419
[Removing a software role from a device](#) on page 419

Distribute devices into deployment groups

All systems require this process.

You can gather devices of different types into a SiteConfig deployment group. This allows you to deploy software to all the devices in the deployment group at the same time, as part of the same deployment session. Based on the roles you have assigned to the devices, SiteConfig deploys the proper software to each device. This increases the efficiency of your software deployment with SiteConfig.

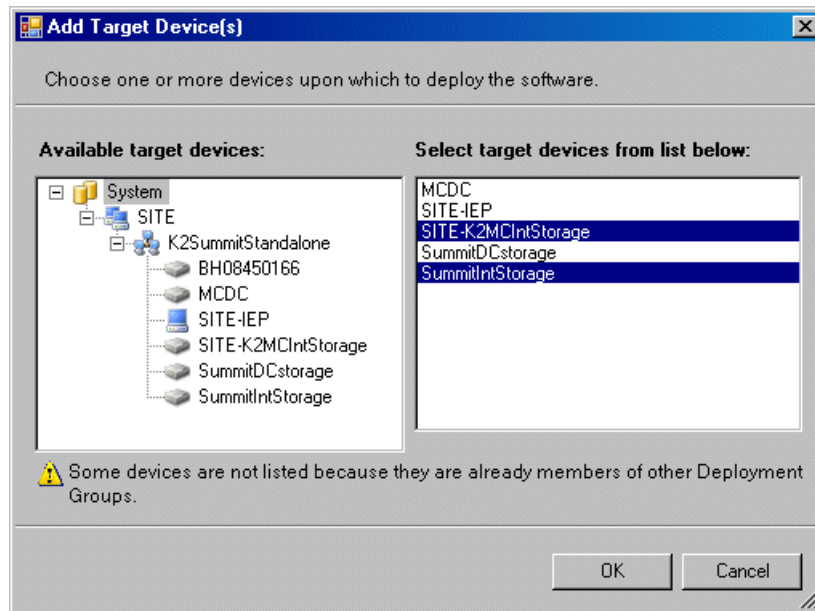
If you have not already done so, configure your deployment groups. The recommended deployment group distribution is as follows. Depending on your system design, your system might not have all the device types listed.

- In a deployment group named "STRATUS", place the following devices:
 - GV STRATUS client PC connected on the corporate LAN for low-resolution (proxy) workflow
 - GV STRATUS client PC connected on the media (iSCSI) network for high-resolution workflow
 - GV STRATUS servers as follows:
 - Express server
 - Core server
 - Proxy server (A1)
 - Proxy Storage file system server (B1, C1)
 - Render Engine
 - Workflow Server
- In a deployment group named "EDIUS", place the following devices:
 - GV STRATUS/EDIUS XS client PC connected on the corporate LAN for low-resolution (proxy) workflow
 - GV STRATUS/EDIUS Workgroup client PC connected on the media (iSCSI) network for high-resolution workflow
- If you have GV STRATUS Rundown, in a deployment group named "GV STRATUS Rundown", place the following devices:
 - IEP
 - GV STRATUS Rundown

Configuring deployment groups

- The device must be assigned in the SiteConfig system description and network connectivity must be present.
1. In the **Software Deployment | Deployment Groups** tree view, right-click the top node and select **Add Deployment Group**.
A deployment group appears in the tree view.
 2. Right-click the deployment group, select **Rename**, and enter a name for the deployment group.

3. Right-click the deployment group and select **Add Target Device**.
The Add Target Device(s) wizard opens.



4. In the Available Target Devices tree view, select the node that displays the devices that you are combining as a deployment group.
5. In the right-hand pane, select the devices that you are combining as a deployment group.
To select multiple devices, you can drag through the devices, use Ctrl + Click, or use Shift + Click.
6. Click **OK**.

The devices appear in the Deployment Groups tree view under the deployment group. Before you perform a software deployment, you must check software on the devices that will be receiving new software. If you have already added packages to the group, on the Deployment Groups tab you will also see deployment tasks generated for every device with roles that match the package contents.

Stage software for deployment

All systems require this process.

About deploying software

You must control the sequence of tasks and device restarts as you install or upgrade software. The exact steps can vary from software version to version. The following sequence of SiteConfig tasks is typical:

1. Check currently installed software.
2. Add software package(s) to deployment group(s).
3. Set deployment options.
4. Deploy (install or upgrade) software.

Your product's release notes or other upgrade instructions have the specific task flow for the version of software you are installing. If you are installing software for the first time or you are upgrading existing software, the steps are essentially the same. The primary difference is that when installing software for the first time, the SiteConfig "uninstall" deployment tasks are not displayed.

NOTE: *Make sure you follow the documented task flow for the version of software you are installing or to which you are upgrading.*

Check all currently installed software on GV STRATUS devices

Check software on GV STRATUS devices.

- The device must be assigned in the SiteConfig system description and network connectivity must be present.
- SiteConfig must be able to log in to the device using the username/password credentials assigned to the device.
- The SiteConfig PC must not have a network drive mapped to an administrative share (such as C\$) on a device on which you are checking software.
- Put devices that run Embedded Security into Update Mode. Refer to the related topic on the Embedded Security one-time initial deployment process.

NOTE: *A re-image of the computer might be necessary if the Embedded Security one-time process is done incorrectly. Follow instructions carefully.*

Do the following steps on the devices on which you are installing or upgrading software.

1. In the **Software Deployment | Deployment Groups** tree view, right-click the top-most node for the group or any individual device and select **Check Software**.

NOTE: *If you have access problems, verify that the administrator account on the device has credentials as currently configured in SiteConfig.*

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

The Check Software dialog box appears. SiteConfig searches for software on the selected device or devices and gathers information. Progress is reported.

2. When the check is complete, close the Check Software dialog box.

An updated list of all currently installed software is displayed in the **Software Deployment | Devices | Installed Software** list view. If software is a SiteConfig managed software package, information is displayed in the Managed Package and Deployment Group columns.

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

[Deploy Embedded Security solution - One-time process](#)

Complete listing of device types, roles, and software packages for GV STRATUS devices

Software packages are SiteConfig *.cab files. You add packages to a SiteConfig deployment group in order to make the software available for deployment to the devices in the group. When a correctly added device has its SiteConfig roles assigned correctly, SiteConfig installs the appropriate package.

GV STRATUS Client PC low-resolution (proxy):

- SiteConfig "Add Device":
 - Family: GV STRATUS

NOTE: Do not select the EDIUS family.
 - Device Type: GV STRATUS Client
 - Model: GV STRATUS PC or GV STRATUS/EDIUS PC (if using EDIUS XS)
- SiteConfig roles:
 - GV STRATUS Application
 - EDIUS (Required for EDIUS XS)
- Software packages:
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS XS)

GV STRATUS Client PC high-resolution (iSCSI):

- SiteConfig "Add Device":
 - Family: GV STRATUS

NOTE: Do not select the EDIUS family.
 - Device Type: GV STRATUS Client
 - Model: GV STRATUS PC - SAN Client or GV STRATUS/EDIUS PC - SAN Client (if using EDIUS Workgroup)
- SiteConfig Roles:
 - GV STRATUS Application
 - StorNext File System Client
 - Generic iSCSI Client (non K2 only)

NOTE: First install StorNext File System Client, then install Generic iSCSI Client via SiteConfig for the following:

 - **First installation of GV STRATUS application into a system.**
 - **When there is an upgrade of the StorNext File System Client.**
- EDIUS (Required for EDIUS Workgroup)

- Software packages:
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GenericISCSI_x64_x.x.x.cab*
 - *SNFS_nonK2_x64_x.x.x.cab*
 - *EDIUS_x.x.x.cab* (Required for EDIUS Workgroup).

GV STRATUS Express server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Core Server Express

- SiteConfig Roles:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
 - *GrassValley_K2system_x.x.x.cab*.

GV STRATUS Core server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Core Server

- SiteConfig Roles:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_IngestServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanelService_x.x.x.cab*
 - *GrassValley_STRATUS_CommonServices_x.x.x.cab*
 - *GrassValley_STRATUS_CoreServices_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Database_x.x.x.cab*
 - *GrassValley_STRATUS_DataMover_x.x.x.cab*
 - *GrassValley_STRATUS_CRArchive_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_DIVA_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_FlashNet_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Masstech_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_GFTP_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Summit_MDI_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Scheduled_Transfer_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_LogViewer_x.x.x.cab*
 - *GV_STRATUS_Rundown_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_STRATUS_Application_x.x.x.cab* (Use for test purposes only)
 - *GrassValley_K2system_x.x.x.cab*.

GV STRATUS Proxy server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Proxy Server

- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy K2 SAN Server
 - GV Log Manager
 - StorNext File System Client
- Software packages:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*.

GV STRATUS Proxy Storage file system server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Proxy Storage File System Server
- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Proxy Storage Server
 - GV Log Manager
 - StorNext File System Server
 - StorNext File System Client

- Software packages:
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*

The *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:

- *GrassValley_STRATUS_HttpProxyServer_x.x.x.cab*
- *GrassValley_LogManager_x.x.x.cab*
- *GrassValley_STRATUSClient_x.x.x.cab*.

GV STRATUS Render Engine Server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Render Engine
- SiteConfig Roles:
 - GV STRATUS Control Panel
 - GV STRATUS Event Viewer
 - GV Log Manager
 - StorNext File System Client
 - GV Embedded Security Manager
 - GV STRATUS Render Engine

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GVEEmbeddedSecurityManager_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*

GV STRATUS Workflow Server:

- SiteConfig "Add Device":
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Workflow Server
- SiteConfig Roles:
 - GV STRATUS Event Viewer
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Control Panel
 - GV Log Manager

- Software packages:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*.

Add software package to deployment group for GV STRATUS devices

- The GV STRATUS devices to which you are deploying software must have their SiteConfig roles correctly configured.
- The GV STRATUS devices to which you are deploying software must be in a deployment group.

The following software upgrade system cab files apply to GV STRATUS devices.

- *GrassValley_STRATUSClient_X.X.XX.XXXX.cab*
- *GrassValley_CoreServer_X.X.XX.XXXX.cab*
- *GrassValley_K2system_X.X.XX.XXXX.cab*

The recommended best practice is to add all system cab files to all deployment groups and allow SiteConfig to direct software to devices according to configured roles.

Refer to release notes for version information.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. Click the **Add** button.
The Add Package(s) dialog box opens.
3. Do one of the following to select the software package:
 - Select from the list of packages then click **OK**.
 - Click **Browse**, browse to and select the package, then click **Open**.
4. If one or more EULAs are displayed, accept them to proceed. If you do not accept a EULA, the associated software is not assigned to the deployment group.
SiteConfig adds the package to the deployment group.

The package appears in the Managed Packages list for the selected deployment group. SiteConfig creates new software deployment tasks for the package and displays them in the Tasks list view.

Related Topics

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

Deploy software to GV STRATUS devices

All systems require this process.

About deploying software for the K2 SAN

You must control the sequence of software deployment tasks and device restarts as you upgrade software across the K2 SAN. The general sequence is to upgrade K2 Media Servers first then the SAN-attached K2 systems. The exact steps can vary from software version to version. Make sure you follow the task flow in the *K2 Release Notes* for the version of software to which you are upgrading.

Related Topics

[Installing GV STRATUS application with SiteConfig](#) on page 230

About deploying software for GV STRATUS devices

You must control the sequence of software deployment tasks and device restarts as you upgrade software across the devices of your GV STRATUS system. The general sequence is to upgrade K2 systems first, then GV STRATUS servers and GV STRATUS client PCs. The exact steps can vary from software version to version. Make sure you follow the task flow in release notes or other upgrade instructions for the version of software to which you are upgrading.

Related Topics

[Installing GV STRATUS application with SiteConfig](#) on page 230

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
- 1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
- 2. In the Tasks list view, view tasks and determine if you must set deployment options.

Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."

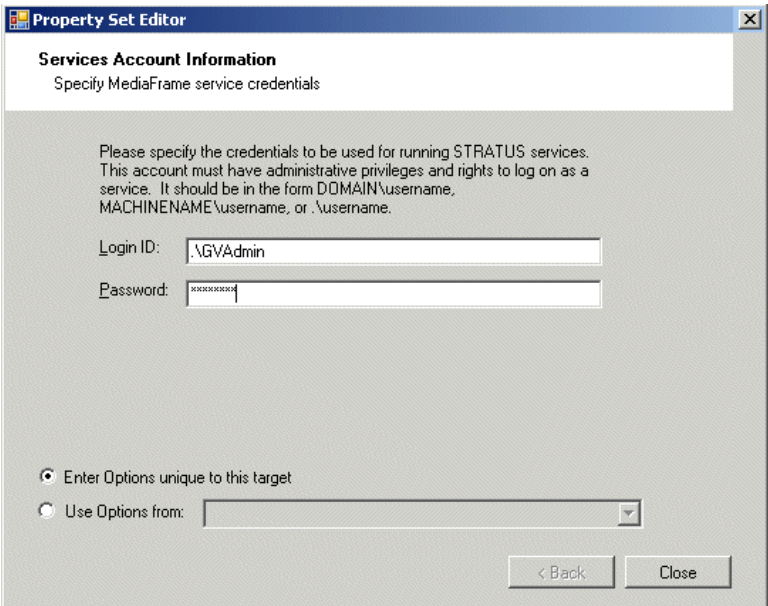
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.

3. Do one of the following to set deployment options:

- Double-click the task.
- Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options.

SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on the GV STRATUS system with SiteConfig

- The devices to which you are installing software must be in a deployment group.
 - For the software you are installing, the managed package must be added to the deployment group.
 - The SiteConfig "Check Software" operation must have been recently done on the devices to which you are installing software.
1. In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are installing software. You can select a Device node, a Deployment Group node, or the All Deployment Groups node.
The corresponding software deployment tasks are displayed in the Tasks list view.
 2. Identify one or more deployment tasks listed as "Install" in the Action column.
 3. For the software you are installing, select the **Deploy** check box in the row for the install task.
If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.
 4. Before starting the deployment session, verify the following for the installation deployment tasks:
 - The Deploy checkbox is selected.
 - The software package is the correct version.
 - The Action column reports Install.
 - The Status column indicates the planned icon.
 - The Details column does not indicate that deployment options are required.
 5. Click the **Start Deployment** button.
Deployment tasks run and software is installed. Progress is reported in both the Status and Details columns.
NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*
 6. Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.

Render Engine Server set up process

Only systems with a Render Engine Server require this process. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-CONFORM license. Use SiteConfig for network setup and software install. Then use K2Config for SAN setup.

If you received your Render Engine already set up from Grass Valley, skip set up tasks and do the test task only.

1. [SiteConfig Render Engine Server network set up](#) on page 675. Only systems with a EDIUS XRE Server require this process.
2. [SiteConfig Render Engine Server software install](#) on page 676. Only systems with an EDIUS XRE Server require this process.

3. [SabreTooth Render Engine server license process](#) on page 679. Only systems with an Render Engine require this process. The process is on the GV STRATUS server with role of Common Services.
4. [K2Config Render Engine Server setup](#) on page 680. Only GV STRATUS systems with a Render Engine server require this process.
5. [Configure Render Engine Server](#) on page 689. Only systems with an EDIUS XRE Server require this process.

Related Topics

[CIFS storage configuration](#) on page 737

SiteConfig Render Engine Server network set up

Only systems with a Render Engine require this process.

If you received your system already set up from Grass Valley, your Render Engine or Servers are already included in the SiteConfig system description and set up on the network, so you can skip these tasks. Otherwise, work through the topics in this section.

Adding a Render Engine Server to the SiteConfig system description

- Render Engines must be racked, cabled, and powered on.
- The system description must contain a group.

This topic applies to an Render Engine server.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
2. Configure settings for the device you are adding as follows:
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Render Engine
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select the number of Render Engines, according to your system design.
 - Platform — Select **x64**.
 - Control network— Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.
3. Click **OK** to save settings and close.
SiteConfig adds the Render Engine to the system description as a placeholder device.
4. Verify that unmanaged control network interface is configured correctly and modify if necessary.

Next, add the GV STRATUS server to the control network.

Adding a GV STRATUS server to the control network with SiteConfig

Use SiteConfig to configure network settings on a GV STRATUS server.

Before doing this task, make sure the GV STRATUS server is added as a placeholder device to the SiteConfig system description.

The following steps are the standard tasks for adding a device to the control network using SiteConfig. Use these steps for the GV STRATUS server you are adding.

1. Discover the device using SiteConfig device discovery.
2. Assign the discovered device to the placeholder device in the SiteConfig system description.
3. Modify the control network interface to ensure communication on the control network.
4. Modify the host name and/or device name as desired.
5. Ping the device to verify network communication.
6. Verify credentials to ensure SiteConfig can install software on the device.
7. Generate and/or add to host tables as appropriate for your network.

Related Topics

[Adding a device to a network with SiteConfig](#) on page 419

[Adding a device to a network with SiteConfig](#) on page 419

SiteConfig Render Engine Server software install

Only systems with an Render Engine require this process.

If you received your system pre-configured from Grass Valley, software is already installed, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your GV STRATUS system has one or more GV STRATUS servers that are Render Engines, install software on those servers.

Setting deployment options

- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.

1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
2. In the Tasks list view, view tasks and determine if you must set deployment options.

Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."

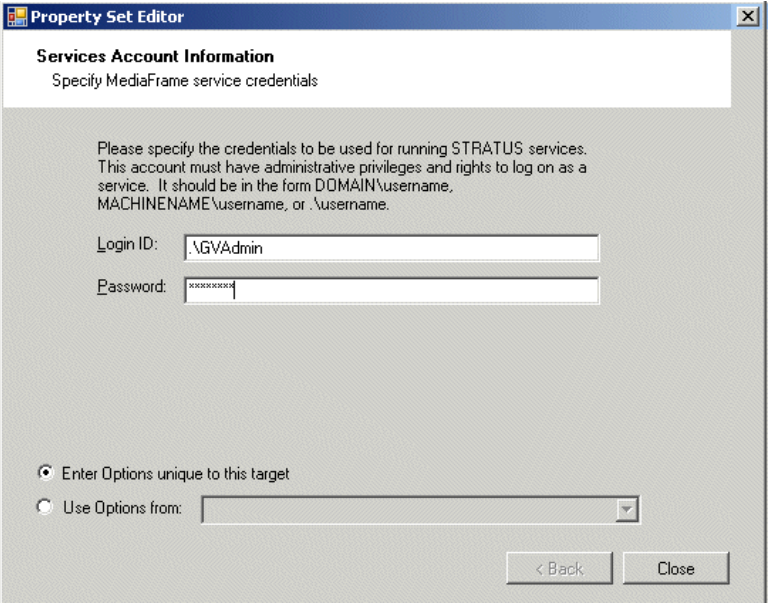
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.

3. Do one of the following to set deployment options:

- Double-click the task.
- Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on a Render Engine Server

Only systems with one or more GV STRATUS servers that are Render Engines require this process. Use SiteConfig to install software on the server.

- The server on which you are installing software must be in the SiteConfig system description and communicating on the control network.

- The server on which you are installing software must have its credentials set in SiteConfig to allow access.
 - Windows High Priority updates are required and must be installed. For more details, refer to [Install Important Windows updates for EDIUS](#) on page 108.
 - QuickTime must be installed on the server to which you are installing the GV STRATUS Render Engine software.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Control Panel
 - GV STRATUS Event Viewer
 - GV Log Manager
 - StorNext File System Client
 - GV Embedded Security Manager
 - GV STRATUS Render Engine
 2. Add the server to a deployment group.
 3. Add the following files to the deployment group:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_RenderEngine_x.x.x.cab*
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GVEEmbeddedSecurityManager_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValleyK2Server_x64_x.x.x.cab*
 - *SNFS_x64_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_Application_x.x.x.cab*
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.

5. Set deployment tasks to **Install** for all the files listed above except when installing Render Engine software, do not install the Render Engine cab file yet.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

6. Deploy software that is not Render Engine software to the server.
7. Restart as prompted.
8. When installing Render Engine software, do the following:
 - a) Set deployment tasks to **Install** for the Render Engine cab file.
 - b) Deploy Render Engine software to the server.

NOTE: *Expect long deployment times when installing Render Engine software. It can take several minutes to install. Allow the installation to complete. Do not attempt to stop the installation.*

9. Restart as prompted.

Related Topics

[GV STRATUS servers logon account](#) on page 198

Configure GVAdmin account

This task applies to a computer on which the following software is installed:

- GV STRATUS/EDIUS client PC
- EDIUS XRE Server
- Render Engine Server

Verify the following before doing this task:

- EDIUS or Render Engine software must be installed on the computer.

Add the internal system account, which by default is GVAdmin, to the Administrators group on the computer.

Related Topics

[GV STRATUS servers logon account](#) on page 198

SabreTooth Render Engine server license process

Only systems with an Render Engine require this process. The process is on the GV STRATUS server with role of Common Services.

The Render Engine license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

STRATUS-CONFORM: This is the license for the GV STRATUS Render Engine. One STRATUS-CONFORM license is required for each GV STRATUS server running Render Engine software in your GV STRATUS system. Each Render Engine server runs Render Engine software, so each server requires a license. This is a SabreTooth floating license.

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

K2Config Render Engine Server setup

Only GV STRATUS systems with a Render Engine server require this process.

If you received your system pre-configured from Grass Valley, your server is already set up on the K2 SAN, so you can skip these tasks. Otherwise, work through the topics in this section sequentially to add a server to your online or production K2 SAN.

K2 SAN prerequisites for adding devices

The following K2 SAN preparations are required to support adding a device to the SAN:

- All K2 Media Servers and/or K2 RAID storage devices must be installed and cabled.
- The control network must be operational with K2 devices communicating. At the command prompt, use the ping command to verify.
- The media network (non-redundant) or networks (redundant) must be operational. You can check this with the K2Config application.
- K2 RAID devices must have disks bound and be configured as required for operation on the K2 SAN.
- K2 Media Servers must be configured such that an operational media file system is present.
- K2 Ethernet switches must be configured and have V-LANs set up.
- The K2 Media Server with role of file system server must be licensed as appropriate for the design of your K2 SAN.

Verify license on K2 Media Server

The K2 SAN license is installed on K2 Media Servers with role of iSCSI bridge. If a redundant system and/or a large system with multiple servers, the license must be installed on each K2 Media Server with role of iSCSI bridge. Use the following steps to verify the license on each K2 Media Server with role of iSCSI bridge.

1. On the K2 Media Server, open SabreTooth License Manager.
2. Verify that a license identified as K2-ISCASI-SVR is installed.

If the license for your K2 SAN license is not installed, you must install it before proceeding.

Adding an Render Engine Server to a SAN

Before doing this task, verify the following:

- On the Render Engine, in Windows Services Control Panel, **Microsoft iSCSI Initiator Service** must be started and set to startup type Automatic.
 - If adding the Render Engine to a redundant K2 SAN, MPIO software must be installed on the Render Engine.
1. If you have not already done so, in SiteConfig, add the server to the appropriate group and verify that it is communicating correctly on networks.
 2. In the K2Config application tree view, select the name of the K2 SAN, which is the top node of the storage system tree.
 3. Click **Add Device**. The Add Device dialog box opens.
 4. Select **GV STRATUS Core Services Server**.

This is the correct selection for the any of the following types of GV STRATUS servers:

- Render Engine
5. Click **OK**. The new server appears in the tree view.

Next, if the server is a redundant iSCSI client on a K2 SAN, install MPIO software. Then configure the server.

Installing Multi-Path I/O Software

This task applies only to 64-bit systems.

The following procedure is required for devices that are clients to a K2 SAN clients that have their Gigabit Media ports connected to the two iSCSI Media networks. This configuration is used for redundant K2 SANs.

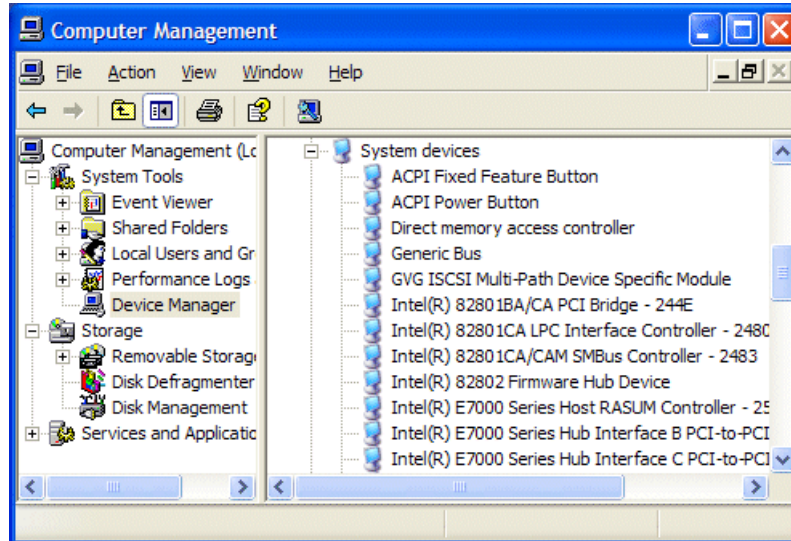
The files for the Multi-Path I/O software are copied on to the system when the K2 software is installed.

1. Access the Windows desktop on the computer on which you are installing MPIO.
You can do this locally with a connected keyboard, mouse, and monitor or remotely via the Windows Remote Desktop Connection.
2. Stop all media access. If AppCenter is open, close it.
3. Click **Start | Run**, type `cmd` and press **Enter**.
The MS-DOS command prompt window opens.
4. From the command prompt, navigate to the `C:\profile\mpio` directory.
5. Type the following at the command prompt:

```
gdsminstall64.exe -i
```
6. Press **Enter**.
The software is installed. The command prompt window reports progress.
7. Restart the computer on which you installed MPIO.

8. After restart, to verify that the software is installed, on the Windows desktop right-click **My Computer** and select **Manage**.

The Computer Management window opens.



9. In the left pane select **Device Manager**.
10. In the right pane open the **System devices** node and verify that **GVG ISCSI Multi-Path Device Specific Module** is listed.

Configuring a Render Engine Server on a K2 SAN***Configure Define Server Roles page***

Configure STRATUS Server - Define server roles

Hostname

Enter the hostname of the server to configure :

Server roles

This server will be configured for the roles selected below

☐ SNFS file system server

☐ Proxy Server

☒ FTP Server

Storage access

Select the method by which this client will access the shared storage:

☒ iSCSI

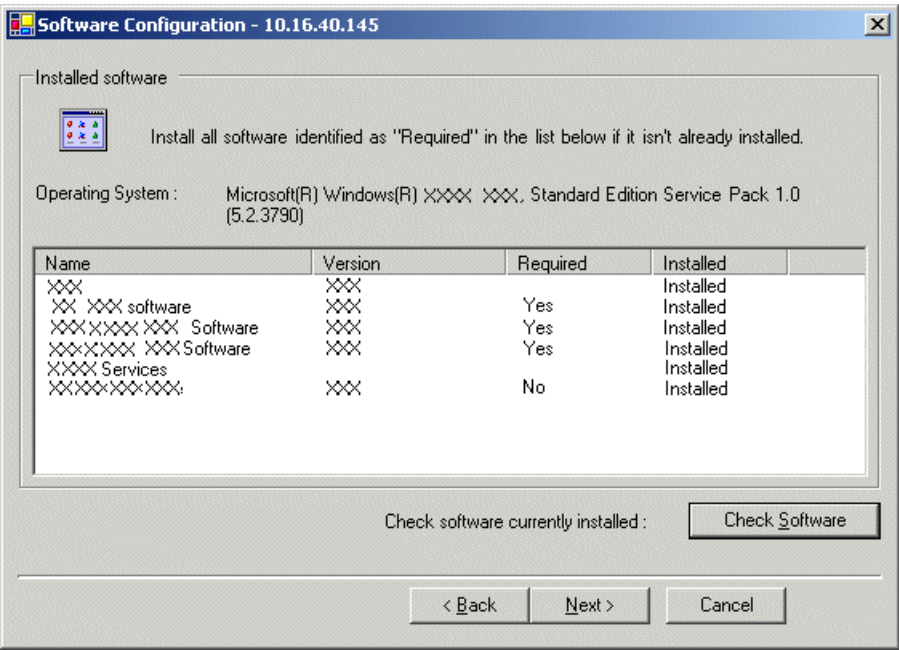
☐ Fibre Channel

< Back Next > Cancel

1. Enter the name of the server, as currently configured on the machine.
SNFS file system server is not selected by default and disabled.
For a Render Engine, select **FTP Server**.
2. Click **Next**.

The Software Configuration page opens.

Configure Software Configuration page

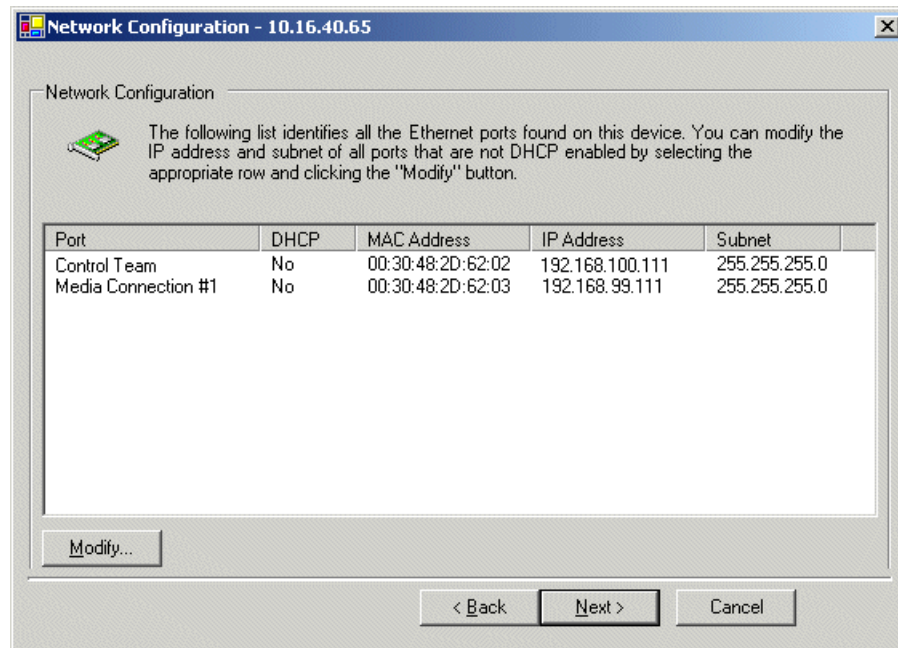


This page checks for the software required to support the roles you selected on the previous page.

NOTE: MPIO software is required on servers in redundant systems.

1. If software with **Yes** in the Required column reports as **Not Installed**, install the software.
2. Click **Check Software**.
3. When all required software reports as **Installed**, click **Next**.

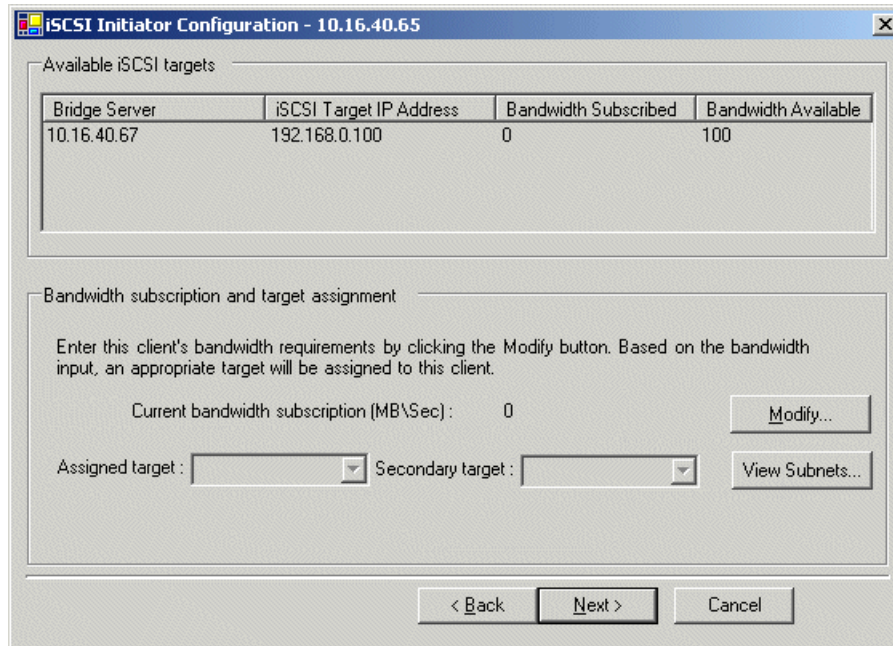
The Network Configuration page opens.

Configure Network Configuration page

This page configures both control and media (iSCSI) network connections.

1. Verify that the top port is configured correctly.
The top port is the port over which the K2Config application is communicating. If correctly configured, it is already assigned the control network IP address, as displayed on this page.
2. Select **Media Connection #1** and then click **Modify**.
A network configuration dialog box opens.
3. Verify or configure the media connection as follows:
 - Verify or enter the media network IP address. Also enter the subnet mask.
4. Click **Next**.

The iSCSI Initiator Configuration page opens.

Configure iSCSI Initiator Configuration page


The dialog box titled "iSCSI Initiator Configuration - 10.16.40.65" contains two main sections. The top section, "Available iSCSI targets", features a table with the following data:

Bridge Server	iSCSI Target IP Address	Bandwidth Subscribed	Bandwidth Available
10.16.40.67	192.168.0.100	0	100

The bottom section, "Bandwidth subscription and target assignment", includes instructions: "Enter this client's bandwidth requirements by clicking the Modify button. Based on the bandwidth input, an appropriate target will be assigned to this client." It shows a "Current bandwidth subscription (MB\Sec) : 0" with a "Modify..." button. Below this are two dropdown menus for "Assigned target" and "Secondary target", followed by a "View Subnets..." button. At the bottom of the dialog are "< Back", "Next >", and "Cancel" buttons.

This page lists the iSCSI adapter on your K2 Media Server as an iSCSI target. The K2Config application subscribes the SAN client to the iSCSI target and allocates bandwidth, based on the bandwidth values that you enter. The K2Config application keeps track of each SAN client's bandwidth, and when the total amount allowed by the K2 SAN license is consumed, the K2Config application displays an informative message and then disables your ability to add more SAN clients. For large systems the K2Config application can load balance SAN clients across multiple iSCSI targets.

If a custom K2 SAN, qualified system designers can view subnets to help assign iSCSI targets.

1. Click **Modify**.

The Bandwidth Input dialog box opens.

2. In the Bandwidth Input dialog box, enter the bandwidth value specified in your system design and then click **OK**.

If the server has the role of encoder, you can calculate encoder bandwidth to determine the value to enter.

3. Click **Next**.

The File System Client Configuration page opens.

Configure File System Client Configuration page

File system client configuration

This file system client will connect to the file system server(s) listed here.

File system server #1 ☐ Reserved Bandwidth (rvio) RVIOs

File system drive letter

File system client parameters : Configured correctly

When you click next, the file system parameters will be written to the device

This system does not function as a file system server. It does function as a file system client, which is validated from this page.

1. Do not select **Reserved Bandwidth** unless instructed to do so by Grass Valley. This system is usually not configured for RVIO.
2. Click **Check**.
3. When the wizard reports that the configuration is correct, click **Next**.
If you get a “The V: will not be available until this device is rebooted...” message, you can safely continue now and reboot later when instructed to do so.

The FTP Server Configuration page opens.

Configure FTP Server Configuration page

The screenshot shows a window titled "FTP Server Configuration - 10.16.40.145". Inside, there is a section titled "FTP Server Configuration Settings" which contains a computer icon, a "Max FTP streams" spinner set to 4, an "FTP Data Socket Timeout (secs)" text box set to 60, and an "FTP Port" text box set to 21 with an "Override" button next to it. Below this is an "MXF export type" section with two radio buttons: "377M" and "377-1", with "377-1" being selected. At the bottom of the window are three buttons: "< Back", "Next >", and "Cancel".

This page appears only if the server has the role of FTP server.

Do not modify these settings. Leave at default values of Max FTP streams = 4, FTP Data Socket Timeout = 60, and FTP Port = 21. Only qualified Grass Valley personnel should specify other values, as these settings are intended for use only with custom systems designed by Grass Valley.

1. Select MXF export type as follows:
 - **377M**: Original SMPTE 377M style. Ensures compatibility with older products.
 - **377-1**: Newer SMPTE 377-1 style.

Refer to related topics in the "Configuring the K2 System" section of the K2 Topic Library for more information.

2. Click **Next**.
The Completing the Configuration Wizard page opens.
3. Click **Finish**.
The wizard closes. The server restarts.

Wait until all startup processes have completed before continuing.

Configure Render Engine Server

Only systems with a Render Engine require this process.

If you received your system already set up from Grass Valley, your Render Engine or Servers are already configured, so you can skip these tasks. Otherwise, work through the topics in this section.

Configuring settings: Render Engine

Only systems with a Render Engine require this process.

If you received your system pre-configured from Grass Valley, your Engines settings are already configured so you can skip these tasks. Otherwise, work through this section to configure your Engines settings.

To locate these settings, click **Core | Engines**

Depending on the workflow and bandwidth requirements of your system, Grass Valley may provide a system design in which multiple engines of the same type run on one or more servers. Configure engines as specified by your system design.

1. In the Control Panel application, open Engines settings.

Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmfl_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gyrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gytranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gydatamoverengine		Running

Buttons: Save, Cancel, Refresh

Settings are described as follows:

Setting or button	Description
Configured	Selects an Engine for which settings are saved.
Hostname	The name of a GV STRATUS server that hosts the Engine.
Engine Type	The Engine components installed on the GV STRATUS server.
Status	Indicates if the Engine service is running or stopped.
Action	Starts and stops the Engine service.
Save	Saves current settings to selected GV STRATUS servers.
Cancel	Returns settings to their last saved state.
Refresh	Updates the list.

2. Click **Refresh** to make sure the list has the latest information from SiteConfig.
3. Verify that GV STRATUS servers with role of Render Engine are listed, and that those servers are set to Engine Type **Render Engine**.
4. In the **Configured** column, select each server with role of Render Engine, with Engine Type **Render Engine**.

You must save settings at initial install/config and any time a GV STRATUS server with an Engine Type role is added, removed, or modified in SiteConfig.

5. Click **Save**.

Settings are saved to the selected GV STRATUS servers.

- Select the Render Engine and click **Modify**.

The Render Engine configuration page displays.

- Configure settings as follows:

Setting or button	Description
Summit Access Protocols	FTP : Setting for FTP protocol to be used by Render Engine to access K2 Summits. CIFS or iSCSI : Setting for CIFS or iSCSI protocol to be used by Render Engine to access K2 Summits.
Maximum Concurrent Proxy Creation Jobs	Setting to specify the maximum number of concurrent proxy encoder jobs allowed on the Render Engine server.
Maximum Concurrent Conform Jobs	Setting to specify the maximum number of concurrent conform jobs allowed on the Render Engine server.
Maximum Concurrent EDIUS Project Jobs	Setting to specify the maximum number of concurrent EDIUS project jobs allowed on the Render Engine server.

You must specify the maximum number of concurrent conform jobs and the maximum number of concurrent proxy encoder jobs allowed on the Render Engine server. Use these settings to balance resource load on the GV STRATUS Express server hosting the engine.

Table 15: Maximum concurrent jobs settings on the GV STRATUS Express server

Job type	XML attribute	Maximum setting
EDIUS XRE	XRE	1
Conform Engine	Conform	1
Proxy Encoder	Transcode	2

NOTE: The total number of maximum concurrent jobs is limited by the number of available simultaneous connections with K2 Summits. If set to zero, the Render Engine does not process jobs of that type.

8. Click **Save**.

Render Engine settings are saved to the selected server.

Configuring Proxy Config settings: Required

All systems, all workflows, require this process.

If you received your system pre-configured from Grass Valley, your Proxy Config settings are already configured so you can skip these tasks. Otherwise, work through this section sequentially to configure your Proxy Config settings.

NOTE: A GV STRATUS system must have only one proxy location and server, so these settings apply to all K2 Summit systems, both standalone and SAN.

NOTE: On an operational system, consult with Grass Valley Support before attempting to change Location of Proxy Assets, CIFS Server, or HTTP Server settings. Changing these settings requires a purge of the GV STRATUS database and a new K2 storage file system, which results in a loss of high-resolution and low-resolution media. Grass Valley Support can provide methods to avoid this loss of media.

To locate these settings, click **Core | Proxy Config**

1. In the Control Panel application, open Proxy Config settings.

The screenshot shows the 'Proxy Settings' window with the following details:

- Tabs:** Proxy Settings (active), Proxy Access, Test Connections, Proxy Quality.
- Proxy Server Settings:**
 - Location of Proxy Assets: KULAS-PROXY-1
 - CIFS Server: KULAS-PROXY-1
 - HTTP Server: KULAS-PROXY-1
- K2 Summit Settings:**
 - ☒ Enable Proxy Creation
- Proxy Encoder Settings:**
 - ☒ Enable Proxy Encoders
- Buttons:** Save, Cancel

NOTE: GV STRATUS versions lower than 3.0 had only one Proxy Server setting. With version 3.0 and higher, the CIFS Server and HTTP Server settings must be configured to replace the Proxy Server setting.

2. If your GV STRATUS system stores its proxy on a GV STRATUS Express server, configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the GV STRATUS Express server, this is the network name of the server with role GV STRATUS Core Server Express, as configured in SiteConfig.

3. If your GV STRATUS system stores its proxy on an online or production K2 SAN (A1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the name of the K2 SAN, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the K2 SAN (A1), this is the network name of the GV STRATUS Proxy server attached to the K2 SAN, as configured in K2Config.

4. If your GV STRATUS system stores its proxy on a dedicated Proxy Storage system (B1, C1), configure as follows:

Setting or button	Description
Location of Proxy Assets	<p>The name of the system that stores proxy files generated by K2 Summit and GV STRATUS systems, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the name of the Proxy Storage system, as named in K2Config.
CIFS Server	<p>The network machine name of the device hosting the server to which proxy files are written, as follows:</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.
HTTP Server	<p>The network machine name of the device hosting the server from which GV STRATUS clients read proxy files. Typically the CIFS Server and the HTTP Server are hosted by the same device.</p> <ul style="list-style-type: none"> For proxy stored on the dedicated Proxy Storage system (B1, C1), this is the network name of the GV STRATUS Proxy Storage file system server, as configured in K2Config.

5. On the **Test Connections** tab, click **Test Connections**.

The GV STRATUS system populates a list of K2 Storage devices. Verify that this list is correct.

6. Select **Enable Proxy Creation**.

This allows K2 Summit systems to create proxy assets when high resolution assets are recorded.

7. Select **Enable Proxy Encoders**.

This allows the system to create proxy assets for any high resolution assets that do not currently have a corresponding low-resolution proxy asset. This setting applies to proxy created by Render Engine servers. If your system instead has Proxy Encoder servers, which are no longer supported, the setting then applies to proxy created by your Proxy Encoder servers.

8. Click **Save**.

9. If you changed Location of Proxy Assets, CIFS Server, or HTTP Server settings, under supervision of Grass Valley Support, you must purge the GV STRATUS database and make a new K2 storage file system.

If you are configuring K2 Summit MDI settings, you can make those settings first before doing this step. This step provides the required restart after configuring K2 Summit MDI settings.

Next, do one of the following:

- If your GV STRATUS system does not access any standalone K2 Summit systems, skip ahead and configure Summit MDI SAN settings.

- If your GV STRATUS system accesses one or more standalone K2 Summit systems, configure Summit MDI standalone settings.

Related Topics

[Proxy Settings](#) on page 291

[HTTP server overview](#) on page 180

Configuring settings: Render Engine work directory

Only systems with a Render Engine require this process.

To specify the path of work directory for the Render Engine, do the following:

1. On the Render Engine server at `..\Program Files\Grass Valley\XREServer 8\Settings`, copy the `EdiusRenderer.conf` file.
2. Paste the file into `..\Program Files\Grass Valley\XREServer 8`, and open `EdiusRenderer.conf` in a text editor.

```
# **** Configuration file for EdiusRenderer.exe ****
work = c:\temp
```

3. Enter a different **work** directory for your GV STRATUS operation, if applicable.

The work directory consists of temporary files for the proxy operation.

4. Save and close the `EdiusRenderer.conf` file.
5. Restart the Render Engine server.

Archive system set up process


Only systems with an archive system require this process. Configure the archive system with the K2 Summit/SAN system, use SabreTooth to install the STRATUS-ARCHIVE license, and in GV STRATUS Control Panel configure an archive MDI.

Use the topics in this section that are appropriate for the type of archive system you are using with your GV STRATUS system.


Configuring DIVA

Before you begin, verify the following:

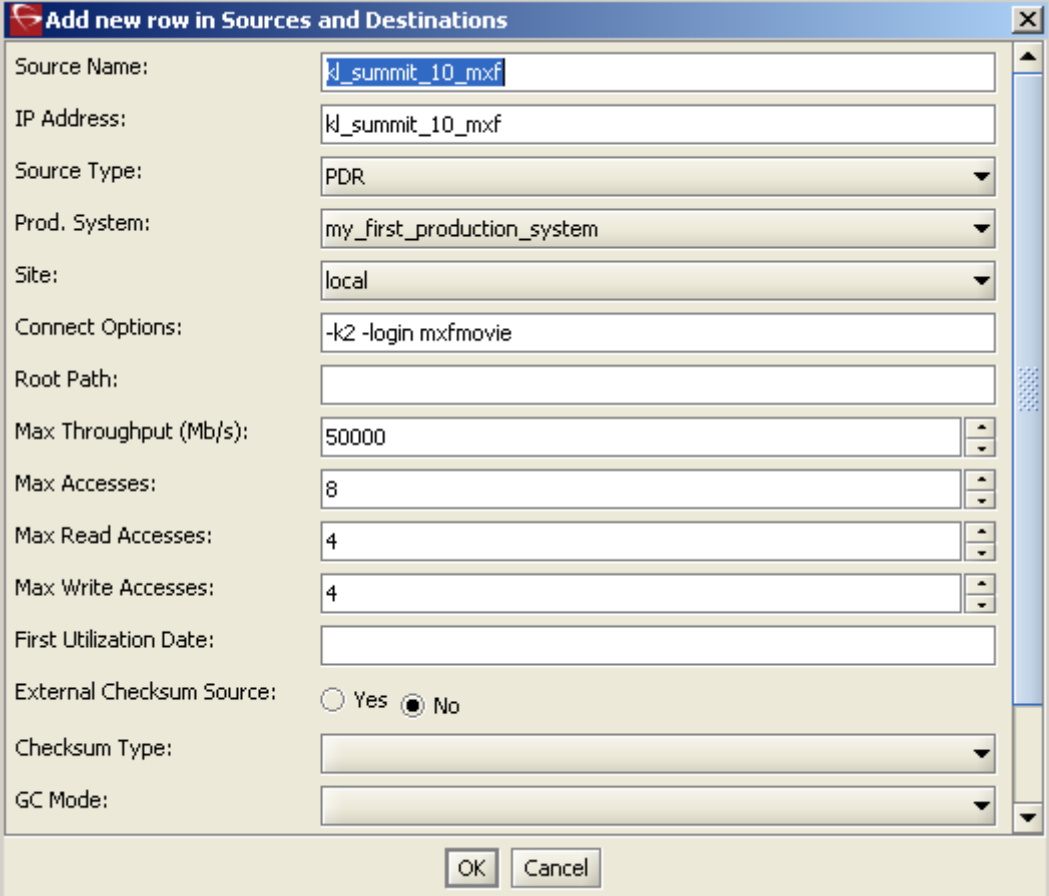
- The DIVA server must have sufficient storage for archived clips.
- The DIVA server must be connected to the Control and streaming/FTP networks.
- The K2 system must be assigned with the role of FTP Server.
- The K2 systems, GV STRATUS Core server, and the archive device must be able to communicate with each other on the streaming/FTP network.
- All FTP servers of K2 Summit SAN must be configured as individual entry in the Configuration Utility on the DIVA server.

- Two separate entries of the K2 server name must be configured to archive both GXF and MXF formats from a K2 server.
1. Launch the MS-DOS command prompt and use the `ping` command to test each K2 system, GV STRATUS Core server, and the archive device's streaming/FTP network name, which includes the `_he0` suffix.
 2. Log on to the DIVA server.
 3. Launch the Configuration Utility on the DIVA server.
 4. Click the **Open connection** button  on the toolbar to connect to the DIVA database.

The log on dialog box opens.

5. Enter your user name and password, and click **OK**.
6. Click the **Add source** button  to add K2 server to the DIVA system configuration.

The configuration dialog opens.



Add new row in Sources and Destinations

Source Name:

IP Address:

Source Type:

Prod. System:

Site:

Connect Options:

Root Path:

Max Throughput (Mb/s):

Max Accesses:

Max Read Accesses:

Max Write Accesses:

First Utilization Date:

External Checksum Source: ☐ Yes ☒ No

Checksum Type:

GC Mode:

7. Fill in the following information:

- a) Source name – Name of the K2 server that the DIVA server connects to. If applicable, enter the server name including the `_he0` and `_mxf` suffixes. For MXF archive, the `_mxf` suffix must be at the end of the server name.

NOTE: *To archive both GXF and MXF formats from a K2 server, make 2 entries of the K2 server name with `_he0` suffix for GXF and `_he0_mxf` suffix for MXF.*

- b) IP Address – IP address of the K2 server.
- c) Source Type – Select **PDR**.
- d) Production System – Select the production system in your operation.
- e) Site – Select the site in your operation.
- f) Connect Options – Enter one of the following:
 - For GXF archive, enter **-k2 -login movie**.
 - For MXF archive, enter **-k2 -login mxfmovie**.
- g) Root Path – You can leave this blank.
- h) Max Throughput (Mb/s) – Enter **50000** for the maximum throughput.
- i) Max Accesses – Enter **8**, the sum of max read and write accesses for the total number of maximum access.
- j) Max Read Accesses – Enter **4** for the total number of maximum read access.
- k) Max Write Accesses – Enter **4** for the total number of maximum write access.

NOTE: *The same number of maximum concurrent archive and restore operations should be entered for all FTP servers belonging to the same SAN. The same goes for all other connected K2 Summit stand-alone servers in one system.*

8. If you're configuring DIVA version 7, go to

`C:\Diva70\Program\conf\actor\partial_restore.conf` and set the following setting:

- `GXF_PROGRESSIVE_TIMECODE_TRANSLATION=1`
- `MXF_IGNORE_START_TIMECODE=0`

- 9. Restart the DIVArchive Actor Service, DIVArchive Manager Service, and DIVArchive Robot Manager Service on the DIVA server to enable the new settings.
- 10. Verify that you can FTP from the DIVA server to the K2 server using the *movie* or *mxfmovie* user account.

NOTE: *DIVA file names are case sensitive, therefore make sure you selected the correct file name in lowercase or uppercase letters before archiving.*

Related Topics


[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

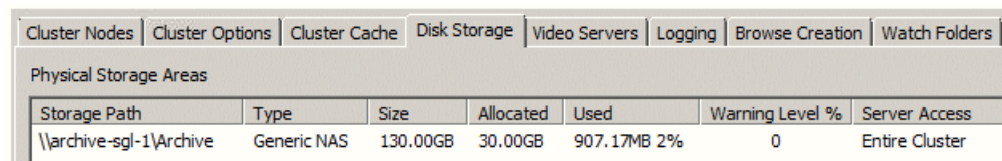
[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

[DIVA Archive MDI settings](#) on page 259

Configuring FlashNet

Before you begin, verify the following:

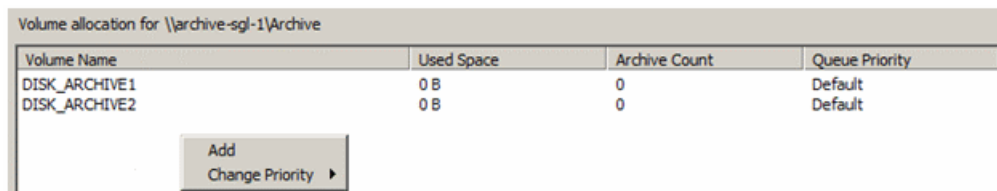
- The FlashNet server must have sufficient storage for archived clips.
 - The FlashNet server must be connected to the Control and streaming/FTP networks.
 - The K2 system must be assigned with the role of FTP Server.
 - Verify that K2 systems, GV STRATUS Core server, and the FlashNet device can all communicate with each other on the streaming/FTP network. Use the `ping` command at the MS-DOS command prompt to test each device's streaming/FTP network name, which includes the `_he0` and `_mxf` suffixes.
1. Log on to the FlashNet server.
 2. Make sure the FlashNet services are up and running.
 3. Launch the FlashNet Administration application.
 4. Click the **Configuration Settings** button  to open the FlashNet Configurator.
 5. Select the **Disk Storage** tab and add a storage path.



Storage Path	Type	Size	Allocated	Used	Warning Level %	Server Access
\\archive-sgl-1\Archive	Generic NAS	130.00GB	30.00GB	907.17MB 2%	0	Entire Cluster

NOTE: : The allocated size should not exceed the size in the license.

6. Right-click on the storage path and select **Add** to add volumes or bins to archive into.

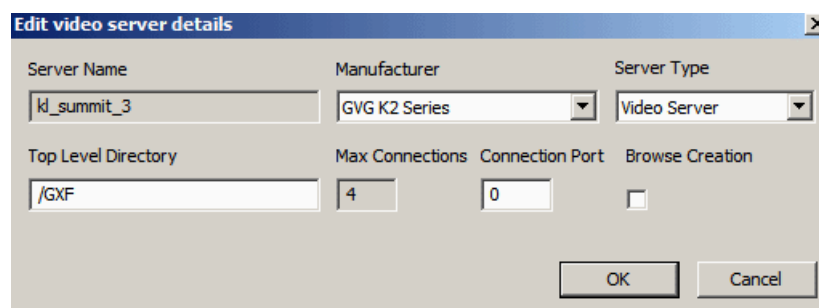


Volume Name	Used Space	Archive Count	Queue Priority
DISK_ARCHIVE1	0 B	0	Default
DISK_ARCHIVE2	0 B	0	Default

Buttons: Add, Change Priority

7. Select the **Video Servers** tab.
8. Right-click and select **Add Server**.

The Edit video server details dialog opens.



Server Name	Manufacturer	Server Type
kd_summit_3	GVG K2 Series	Video Server
Top Level Directory	Max Connections	Connection Port
/GXF	4	0
Browse Creation <input type="checkbox"/>		
<div>OK</div> <div>Cancel</div>		

9. Fill in the following information:

- a) Server Name - Name of the K2 server that the FlashNet server connects to. If applicable, enter the server name including the `_he0` and `_mx` suffixes. For MXF archive, the `_mx` suffix must be at the end of the server name. In case content is being archived/restored from a K2 SAN system, add ALL K2-SAN FTP server as individual entries to the FlashNet configuration.

NOTE: To archive both GXF and MXF formats from a K2 server, make 2 entries of the K2 server name with `_he0` suffix for GXF and `_he0_mx` suffix for MXF.

- b) Manufacturer - Select **GVG K2 Series**.
- c) Server Type - Select **Video Server**.
- d) Top Level Directory - Enter `/GXF` or `/MXF` according to your archive MDI setting.
- e) Connection Port - Enter **0**.

NOTE: When you add servers, update those server details in host tables of all devices that use them. Make sure server names with `_he0` and `_he0_mx` suffixes are added to your host tables.

10. Click OK.

The K2 server is added to the FlashNet configuration.

Repeat above steps to add more K2 servers into the configuration.

11. Select the **Cluster Cache** tab, and add the cache path to allow the cleanup and deletion of assets.

Cluster Nodes Cluster Options Cluster Cache Disk Storage Video Servers Logging Browse Creation Watch Folders							
Server	Cache Path	Size	Free Space	Peak Clip	Total I/O	Current Speed	Peak Speed
archive-sgi-1	C:\flashnet_cache	130.00GB	84.35GB	0 B	0 B	0 B/s	0 B/s

12. Launch the FlashNet Storage Manager to continue with the cache cleanup configuration.

13. Select the **Defrag** tab, and set the Defrag Mode to **Perform Defrag And Overwrites**.

Defrag	Life Cycle Rules	Life Cycle Status	Failures
Defrag Mode: Perform Defrag And Overwrites			
<input type="checkbox"/> Pause Tape Defrag	Defrag when full tapes contain 1 % of deleted data		Queue Priority 8

14. Enter **1** in the setting of Defrag when full tapes contain % of deleted data.15. To set the FTP user account, click **Start | All Programs | Microsoft SQL Server 2008 R2** and select **Microsoft SQL Server Management Studio**.

Microsoft SQL Server Management Studio opens.

16. Click **Databases | flashnet | Tables**.

17. Right-click on **dbo.COMMS_METHOD** and select **Edit Top 200 Rows**.

The table for video server opens.

KL_FLASHNET...COMMS_METHOD		SQLQuery1.sql -...inistrator (73))				
	comms_method...	client	comms_method...	login	password	port
▶	2	kl_summit_9	13	movie		0
	3	kl_summit_9_he0	13	movie		0
	4	kl_summit_9_mxf	13	mxfmovie		0
	5	kl_summit_9_he0_mxf	13	mxfmovie		0
	6	kl_summit_8	13	movie		0
	7	kl_summit_8_he0	13	movie		0
	8	kl_summit_8_mxf	13	mxfmovie		0
	9	kl_summit_8_he0_mxf	13	mxfmovie		0

18. Check that all your newly added servers are in the table.
19. In the **login** column, do the following:
- For GXF archive, change from flashnet to **movie**.
 - For MXF archive, change from flashnet to **mxfmovie**.
20. In the **max_connect** column, change the number of maximum connection from 0 to 4.
21. Click **File | Save All** and close the **Microsoft SQL Server Management Studio**.
22. Verify that you can FTP from the FlashNet server to the K2 server using the *movie* or *mxfmovie* user account.

Related Topics

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

[FlashNET Archive MDI settings](#) on page 261

Configuring Masstech

Before you begin, verify the following:

- The Masstech server must have sufficient storage for archived clips.
 - The Masstech server must be connected to the Control and streaming/FTP networks.
 - The K2 system must be assigned with the role of FTP Server.
 - Verify that K2 systems, GV STRATUS Core server, and the archive device can all communicate with each other on the streaming/FTP network. Use the `ping` command at the MS-DOS command prompt to test each device's streaming/FTP network name, which includes the `_he0` suffix.
1. In a web browser, log on to the Masstech server administration page using the administrator account.

2. Navigate to **Management | Security | User Information** and click **Add New User**.

Add New User

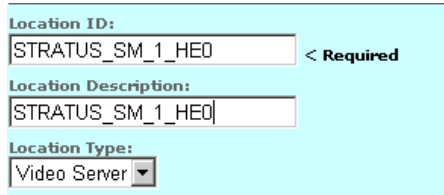
User Information

User ID: kulas-core1a128 < Required	Use Alias on MMP query: NO
Password: ***** < Required	Re Enter Password: ***** < Required
User Name: kulas-core1a128	User Group: Montana User Group
Location: MALAYSIA EN_US	Department: Development
Phone Number:	Email Address:
Allow multiple login sessions: NO	

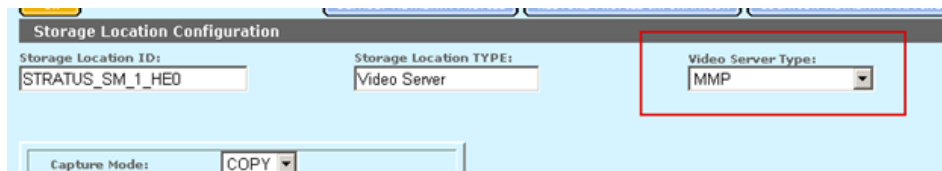
3. Add a user for the Masstech MDI to use to log on to the Masstech system.
Each MDI must have a unique user for log on.

4. Configure settings for K2 Summit systems as follows:

- a) Navigate to **Management | Locations | Storage** and click **Add New Location**.

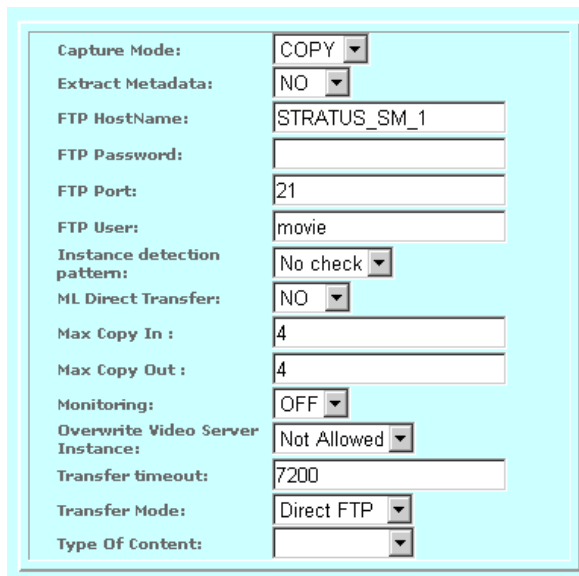


- b) Configure **Location ID** to be the same as the Summit MDI **FTP Server Name** configured in GV STRATUS Control Panel. Make sure the server name is in all capital letters.
- c) For **Video Server Type** select **MMP** and then click **OK** and confirm as prompted.



The screen displays different settings, based on the selection.

- d) For **Transfer Mode** select **Direct FTP** and then click **OK** and confirm as prompted.
- The screen displays different settings, based on the selection.

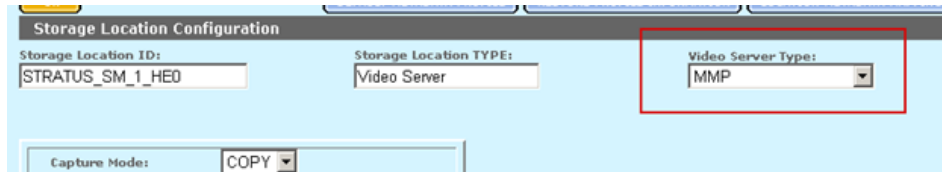


- e) Verify/configure settings as follows:

- Capture Mode: COPY
- Extract Metadata: NO

- FTP HostName: Enter the same server name used in the **Location ID** setting, except without the _HEO suffix.
- FTP Password: Leave this field blank
- FTP Port: 21
- FTP User: movie
- Instance detection pattern: No check
- ML Direct Transfer: NO
- Max Copy In: 4
- Max Copy Out: 4
- Monitoring: OFF
- Overwrite Video Server Instance: Not Allowed
- Transfer timeout: 7200
- Transfer Mode: Direct FTP
- Type Of Content: Leave this field blank

5. Configure settings for MXF archive restore using similar steps, as follows:
 - a) Navigate to **Management | Locations | Storage** and click **Add New Location**.
 - b) For **Location ID** and **Location Description**, enter the same value as you did in the previous step, except with a **_MXF** suffix added to the end.
For example, if you entered **STRATUS_SM_1_HE0** in the previous step, enter **STRATUS_SM_1_HE0_MXF** in this step.
 - c) For **Video Server Type** select **MMP** and then click **OK** and confirm as prompted.



The screenshot shows a 'Storage Location Configuration' window. It has three main input areas: 'Storage Location ID' with the text 'STRATUS_SM_1_HE0', 'Storage Location TYPE' with a dropdown menu showing 'Video Server', and 'Video Server Type' with a dropdown menu showing 'MMP'. The 'Video Server Type' dropdown is highlighted with a red rectangular box. At the bottom, there is a 'Capture Mode' dropdown menu showing 'COPY'.

The screen displays different settings, based on the selection.

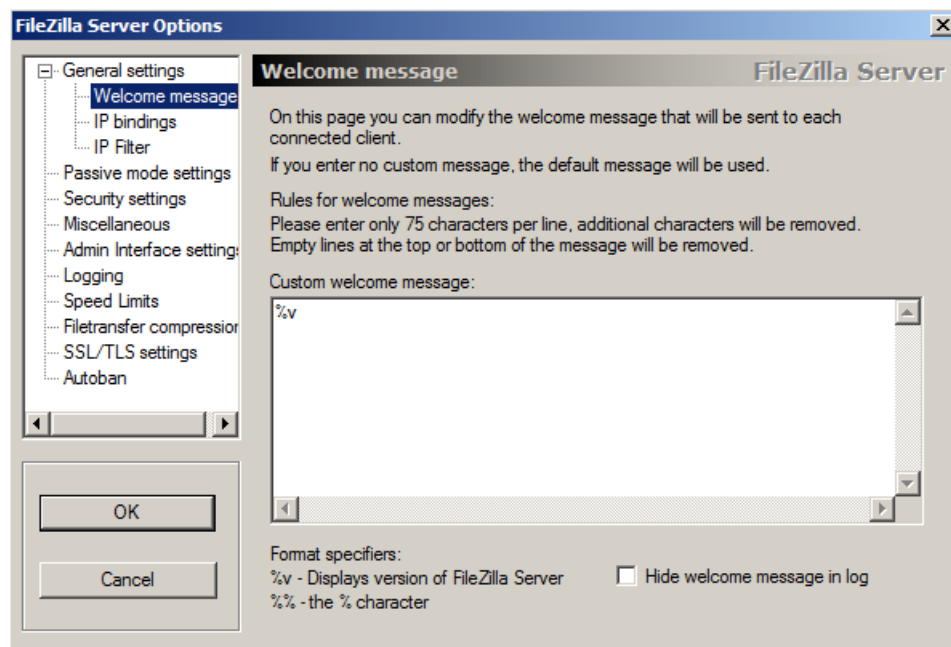
- d) For **Transfer Mode** select **Direct FTP** and then click **OK** and confirm as prompted.
The screen displays different settings, based on the selection.
- e) Verify/configure settings as follows:
 - Capture Mode: COPY
 - Extract Metadata: NO
 - FTP HostName: Enter the same server name used in the **Location ID** setting, except without the **_HE0** suffix.
 - FTP Password: Leave this field blank
 - FTP Port: 21
 - FTP User: mxfmovie
 - Instance detection pattern: No check
 - ML Direct Transfer: NO
 - Max Copy In: 4
 - Max Copy Out: 4
 - Monitoring: OFF
 - Overwrite Video Server Instance: Not Allowed
 - Transfer timeout: 7200
 - Transfer Mode: Direct FTP
 - Type Of Content: Leave this field blank

Installing and configuring FileZilla

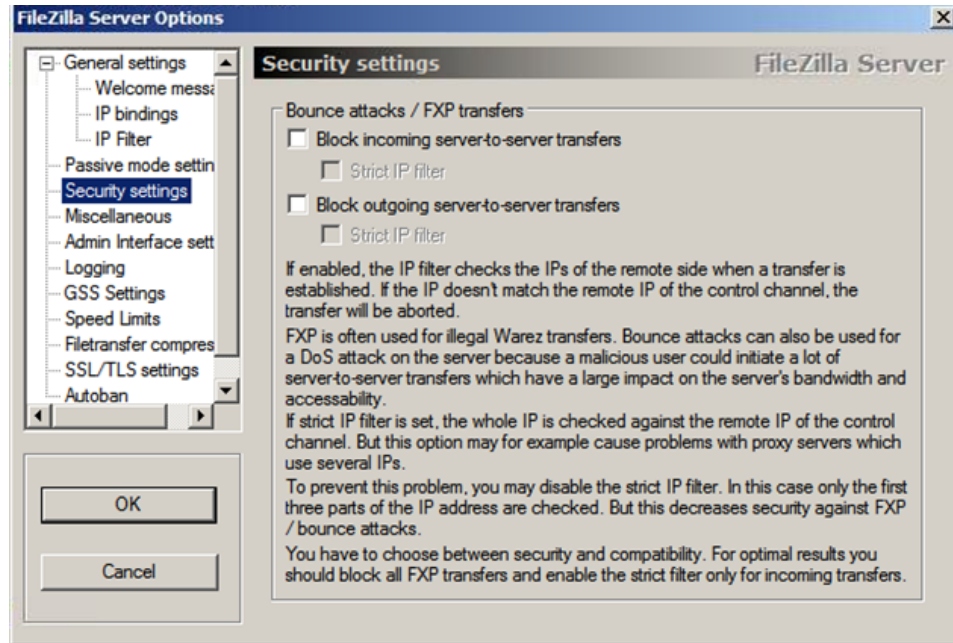
Before you begin, verify the following:

- The server that runs the FileZilla FTP service must have sufficient storage for archived clips.
- The server that runs the FileZilla FTP service must have a connection to the Control network and a connection to the streaming/FTP network.

- If using hosts files, the server's Control and FTP IP addresses must be added to your K2/GV STRATUS system hosts files. Hostnames for FTP IP addresses must have the `_he0` suffix.
1. Verify that K2 systems, GV STRATUS Core server, and the archive device can all communicate with each other on the streaming/FTP network. Use the `ping` command at the MS-DOS command prompt to test each device's streaming/FTP network name, which includes the `_he0` suffix.
 2. On the server that runs the FileZilla FTP service, check to see if IIS is installed. If it is installed, either uninstall it or disable it.
 3. On the server that runs the FileZilla FTP service, on the C:\ drive, create a folder and name it `root`.
 4. It is recommended that you create the internal system account, which by default is GVAdmin, in the Administrators group
 5. Install the FileZilla Server software.
Install the latest version available on the Internet.
 6. Open the FileZilla application.
 7. When the Connect to Server window opens, do the following:
 - a) Verify that the Server Address defaults to 127.0.0.1.
 - b) Verify that the port defaults to 14147.
 - c) Enter the password for the internal system account, which by default is GVAdmin.
 - d) Select **Always connect to this server**.
This disables the automatic opening of the Connect to Server window.
 8. Click **Edit | Settings | General Settings**, and configure the Welcome message as follows:
 - a) Select **Welcome message**.
 - b) Delete all characters except for `%v`.
 - c) Click **OK**.



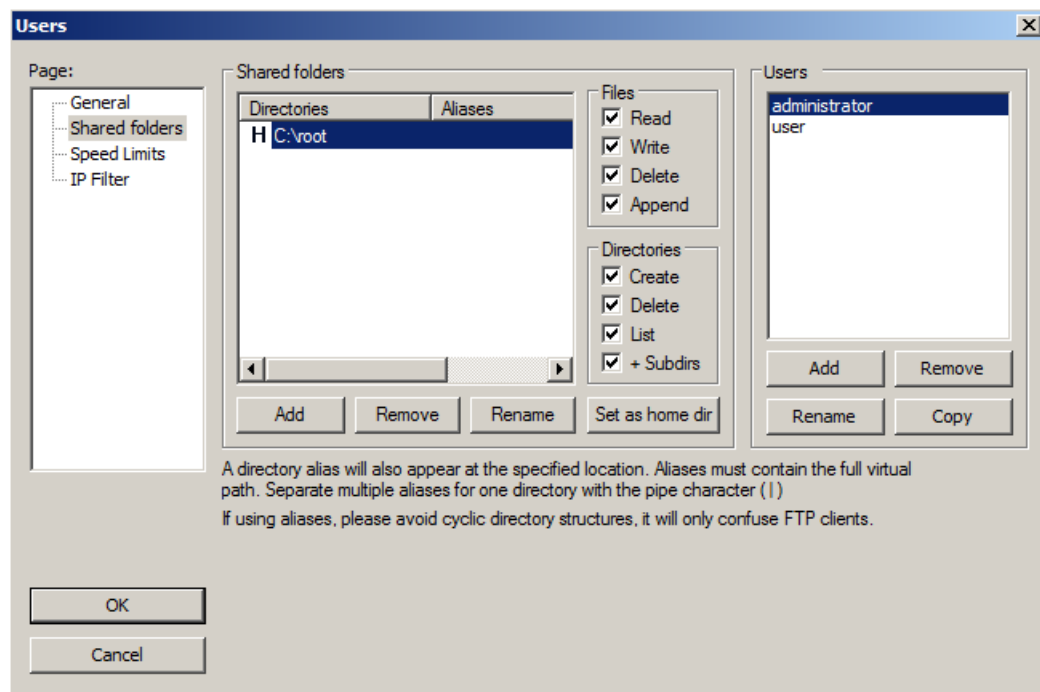
9. If the FileZilla server is not running on the same host as the GFTP MDI, click **Edit | Settings | Security settings** and configure the security settings as follows:
 - a) Clear the **Block incoming server-to-server transfers** checkbox.
 - b) Clear the **Block outgoing server-to-server transfers** checkbox.
 - c) Click **OK**.



10. Click **Edit | Users | General** and configure the internal system account, which by default is GVAdmin, as follows:
 - a) Add the account.
 - b) Select the account.
 - c) Verify that **Enable account** and **Password** are selected.
 - d) Enter the account password.
 - e) Click **OK**.

The screenshot shows the 'Users' configuration window. On the left, a 'Page:' sidebar lists 'General' (selected), 'Shared folders', 'Speed Limits', and 'IP Filter'. The main area is divided into sections: 'Account settings' with checkboxes for 'Enable account' and 'Password' (both checked), a 'Group membership' dropdown set to '<none>', and a section for 'Bypass userlimit of server' with input fields for 'Maximum connection count' and 'Connection limit per IP' (both set to 0), and a checkbox for 'Force SSL for user login'. Below this is a 'Description' text area with the placeholder 'You can enter some comments about the user'. On the right, a 'Users' list shows 'administrator' and 'user', with buttons for 'Add', 'Remove', 'Rename', and 'Copy' below it. At the bottom left are 'OK' and 'Cancel' buttons.

11. Click **Edit | Users | Shared folders** and configure the root folder as follows:
 - a) Add the `C:\root` folder.
 - b) Select the root folder.
 - c) Select all **Files** and **Directories** checkboxes.
 - d) Click **Set as home dir**
 - e) Click **OK**.



12. Click **FileZilla | Server**, verify that **Active** is selected.

Next, configure the GV STRATUS system for FileZilla.

Related Topics

[About host files](#) on page 347

[Configuring the GV STRATUS system for FileZilla](#) on page 709

[Generic FTP MDI settings](#) on page 263

Configuring a Linux archive device

Before you begin, verify the following:

- The Linux archive device must have sufficient storage for archived clips.
- The Linux archive device must be connected to the Control and streaming/FTP networks.
- The K2 system must be assigned with the role of FTP Server.
- Verify that K2 systems, GV STRATUS Core server, and the archive device can all communicate with each other on the streaming/FTP network. Use the `ping` command at the MS-DOS command prompt to test each device's streaming/FTP network name, which includes the `_he0` suffix

- Linux file names are case sensitive, therefore make sure you don't have duplicate file names in lowercase and uppercase letters.

In addition to the instructions in related topics about using generic FTP for archive, the following steps are required for a Linux archive device that is using Very Secure FTP Daemon (vsftpd), which is an FTP server for Unix-like systems, including Linux.

1. Edit `/etc/vsftpd.conf` as follows:
 - a) Add `pasv_promiscuous=YES`.
This disables the PASV security check that ensures the data connection originates from the same IP address as the control connection.
 - b) Add `chroot_local_user=YES`, if is not already added.
This locks a user within their root directory and a does not allow them to access anything beyond.
2. Restart vsftpd.
3. If vsftpd version 2.3.5 or higher, remove write permissions on the user's root directory. Use the `chmod` command.
For example, if a user's home directory is `/home/user` the command is `chmod a-w /home/user`.
Removing write permissions on the user's root directory avoids the following error:

```
500 OOPS: vsftpd: refusing to run with writable root inside chroot ()
```

Configuring the GV STRATUS system for FileZilla

1. In SiteConfig, add the GV STRATUS Generic FTP MDI role to the GV STRATUS Core server, if it is not already added.
NOTE: The server that runs the FileZilla FTP service is not maintained through SiteConfig.
2. If not already installed, use SiteConfig to install the Generic FTP MDI on the GV STRATUS Core server.
3. On the GV STRATUS Core server, in the SabreTooth License Manager, generate a unique Id and request a STRATUS-Archive license. When you receive the license, install it on the GV STRATUS Core server.
4. In GV STRATUS Control Panel application, add a Generic FTP MDI and configure the FTP Server settings as follows:
 - FTP Server Name: The FTP network name of the server that runs the FileZilla FTP service. Make sure the name includes the `_he0` suffix.
 - FTP User Account: GVAdmin
 - FTP Password: The administrator password
5. Save the MDI configuration.
6. Restart the GV STRATUS Core server.
7. In GV STRATUS Control Panel application, in Licensing settings, verify that the desired users are licensed with the **Archive Rights** and **Restore Rights**.
8. To test, log in as one of those users and verify that you are able to Archive and Restore.

9. To add a new archive bin, go to **Devices | FTPMDI** right-click and select **New | Bin**.

Archive bins are automatically populated under FTPMDI node in the Navigator if those bins already exist on the FTP server.

Related Topics

[Adding a software role to a device](#) on page 419

[SabreTooth GV STRATUS license process](#) on page 611

[Generic FTP MDI settings](#) on page 263

[License Management settings](#) on page 302

[About Archive/Restore roles](#) on page 393

[Installing and configuring FileZilla](#) on page 704

[Generic FTP MDI settings](#) on page 263

Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives

1. In SiteConfig, add the GV STRATUS DIVA MDI role, the GV STRATUS FlashNET MDI role, the GV STRATUS Masstech MDI role, or the GV STRATUS Common RESTful Archive MDI role to the GV STRATUS Core server, if it is not already added.
2. If not already installed, use SiteConfig to install the appropriate archive MDI on the GV STRATUS Core server.
3. On the GV STRATUS Core server, in the SabreTooth License Manager, generate a unique ID and request a STRATUS-ARCHIVE license. When you receive the license, install it on the GV STRATUS Core server.
4. In GV STRATUS Control Panel application, add and configure the appropriate archive MDI.
5. Save the MDI configuration.
6. Restart the GV STRATUS Core server.
7. In GV STRATUS Control Panel application, in Licensing settings, verify that the desired users are licensed with the **Archive Rights** and **Restore Rights**.

Users without the **Archive Rights** or **Restore Rights** are not able to see archive devices under Devices node in the Navigator.

8. To test, log in as one of those users and verify that you are able to Archive and Restore.

Related Topics

[About archive MDIs](#) on page 373

[DIVA Archive MDI settings](#) on page 259

[FlashNET Archive MDI settings](#) on page 261

[Masstech MDI settings](#) on page 262

[Common RESTful Archive MDI settings](#) on page 265

[SabreTooth Archive/Restore license process](#) on page 711

[Configuring DIVA](#) on page 695

[DIVA Archive MDI settings](#) on page 259

[Configuring FlashNet](#) on page 698

[FlashNET Archive MDI settings](#) on page 261

Configuring the Generic FTP MDI role for Nearline K2 SAN

1. In SiteConfig, add the GV STRATUS Generic FTP MDI role to the GV STRATUS Core server, if it is not already added.
2. If not already installed, use SiteConfig to install the Generic FTP MDI on the GV STRATUS Core server.
3. On the GV STRATUS Core server, in the SabreTooth License Manager, generate a unique Id and request a STRATUS-ARCHIVE license. When you receive the license, install it on the GV STRATUS Core server.
4. In GV STRATUS Control Panel application, add a Generic FTP MDI and configure the FTP Server settings as follows:
 - FTP Server Name: The FTP network name of the K2 server for the Nearline K2 SAN system. Make sure the name includes the _he0 suffix.
 - FTP User Account: It is recommended that you use the internal system account, which by default is GVAdmin.
 - FTP Password: The administrator password for the default GVAdmin account.
5. Save the MDI configuration.
6. Restart the GV STRATUS Core server.
7. In GV STRATUS Control Panel application, in Licensing settings, verify that the desired users are licensed with the **Archive Rights** and **Restore Rights**.
8. To test, log in as one of those users and verify that you are able to Archive and Restore.
9. To add a new archive bin, go to **Devices | FTPMDI** right-click and select **New | Bin**.

Archive bins are automatically populated under FTPMDI node in the Navigator if those bins already exist on the FTP server.

Related Topics

[Adding a software role to a device](#) on page 419

[SabreTooth GV STRATUS license process](#) on page 611

[Generic FTP MDI settings](#) on page 263

[License Management settings](#) on page 302

[About Archive/Restore roles](#) on page 393

[Generic FTP MDI settings](#) on page 263

SabreTooth Archive/Restore license process

The Archive/Restore license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

One STRATUS-ARCHIVE license is required for archive and restore operations in the GV STRATUS. Once installed, archive and restore rights can be assigned to groups and users.

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.

- On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
- When you receive your license file, use SabreTooth License Manager and install it on the server.

DIVA Archive MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

Since DIVA provides direction oriented FTP transfer and port configuration settings, it is recommended to configure the maximum concurrent number of supported archive and restore operations in this Diva Archive MDI setting. They should be identical to the configuration in the DIVA Manager.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Diva Archive**

The screenshot shows the 'MDI Configuration' dialog box with the following settings:

- MDI Type:** Diva Archive
- MDI Name:** DivaMDI
- Hostname of device running the MDI:** KULAS-SC-A127
- Port number:** 9122
- Hostname of the DIVA Archive:** divasvr
- DIVA Manager Port:** 9072
- Disk Array Names:** Remote,Temp,PrimeTime,Promo
- Timeout (sec):** 180
- Maximum concurrent archive operations:** 4
- Maximum concurrent restore operations:** 4
- Format:** ☒ GXF ☐ MXF
- DIVA Category:** GXf

At the bottom right, there are 'Save' and 'Cancel' buttons.

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.

Setting or button	Description
Port number	The port number of the port that this MDI listens to. The default port number is 9122. Other port numbers are also allowed.
Hostname of the DIVA Archive	The hostname or IP address of the DIVA Archive server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
DIVA Manager Port	The default value for the DIVA Manager Port number is listed below: <ul style="list-style-type: none"> DIVA version 7.1 and below: 9000 DIVA version 7.2: 9072 Other DIVA Manager Port numbers are also allowed. Refer to your DIVA archive server for configuration details.
Disk Array Names	The disk arrays in DIVA that are exposed in GV STRATUS clients.
Timeout (sec)	The default timeout is 180 seconds.
Maximum concurrent archive operations	The maximum number of transfers that the MDI will process at the same time for archive operations. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel. The maximum number is set to 5 by default.
Maximum concurrent restore operations	The maximum number of transfers that the MDI will process at the same time for restore operations. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel. The maximum number is set to 5 by default.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
DIVA Category	Specifies the DIVA category for your archived material. The DIVA MDI shows material in this category only. If this setting is blank the DIVA MDI shows all archived material and archives to the default GXF category.

Related Topics

[Configuring DIVA](#) on page 695

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

FlashNET Archive MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | FlashNET Archive**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9124. Other port numbers are also allowed.
Hostname of the FlashNET Archive	The name or IP address of the FlashNET Archive server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click Save and restart your GV STRATUS clients.

Related Topics

[Configuring FlashNet](#) on page 698

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

Masstech MDI settings

These settings are optional on GV STRATUS systems.

Before archiving assets, your K2 system must be assigned with the role of FTP Server.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Masstech**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9129. Other port numbers are also allowed.
Masstech Server	The name or IP address of the Masstech server. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Masstech Port	The default value for the Masstech port is 16888.
Masstech Username	The Masstech username.
Masstech Password	The Masstech password.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: Click <i>Save</i> and restart your GV STRATUS clients to put a format change into effect.

Related Topics

[Configuring Masstech](#) on page 700

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

Generic FTP MDI settings

These settings are optional on GV STRATUS systems.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Generic FTP**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.
Port number	The port number of the port that this MDI listens to. The default port number is 9170. Other port numbers are also allowed.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. You can configure up to 10 concurrent transfers if you have large resources in your system. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
FTP Server Name	The IP Address or the name resolving to the FTP server on the FTP server network where assets will be transferred to. If using a K2 nearline, configure the Generic FTP MDI to use the K2's nearline FTP. NOTE: The device status can be monitored in the Resource Monitor of GV STRATUS Control Panel.

Setting or button	Description
FTP User Account	The FTP user name.
FTP Password	The FTP password.
FTP Root Directory	The root directory for the Generic FTP MDI. Once you set the root directory, only folders under the root directory are exposed in the Navigator of GV STRATUS application.

Related Topics

[Installing and configuring FileZilla](#) on page 704

[Configuring the GV STRATUS system for FileZilla](#) on page 709

[Configuring the Generic FTP MDI role for Nearline K2 SAN](#) on page 711

Common RESTful Archive MDI settings

These settings are optional on GV STRATUS systems.

You can configure up to 2 Common RESTful Archive MDIs in the GV STRATUS Control Panel, and both MDIs are able to archive assets in parallel at the same time.

To locate these settings, click **Core | MDI Configuration | Managed Devices | Add | Common RESTful Archive**

Setting or button	Description
MDI Type	The Managed Device Interface (MDI) type to which these settings apply.
MDI Name	A name for this instance of the MDI type. Do not use spaces in the MDI name.
Hostname of device running the MDI	The name of the GV STRATUS server that hosts this MDI.

Setting or button	Description
Port number	The port number of the port that this MDI listens to. The default port number is 9120. Other port numbers are also allowed.
Maximum concurrent transfers	The maximum number of transfers that the MDI will process at the same time. The number of maximum concurrent transfers can be monitored in the Resource Monitor of GV STRATUS Control Panel.
Format	Specifies the format of the archived asset, either GXF or MXF. NOTE: In order for the format change to take effect, you need to click <i>Save</i> and restart your GV STRATUS clients.
Archive Server Name	The name of the Archive Server.
Archive User Account	The user account to access the Archive Server.
Archive Password	The password for the user account.

NOTE: For Common RESTful Archives, transfers between archives are only supported between the Common RESTful Archive and Generic FTP servers.

Related Topics

[Configuring the GV STRATUS system for DIVA, FlashNET, Masstech, and Common RESTful archives](#) on page 710

[Archiving an asset](#) on page 918

Workflow Server set up process

Only systems with a Workflow Server require this process. Use SiteConfig for network setup and software install. On the GV STRATUS Core server, use SabreTooth and install the STRATUS-RULES license optional transfer/transcode licenses.

GV STRATUS supports a separate workflow server. The separate workflow server is recommended for B1 (FT) and C1 (FT) configurations.

If your GV STRATUS system has a single GV STRATUS Express server or a GV STRATUS Core server and no Workflow Servers, the GV STRATUS Express server or GV STRATUS Core server has Workflow Server software installed.

If you received your Workflow Server already set up from Grass Valley, skip set up tasks and do the test task only.

1. SiteConfig Workflow Server network set up. Only systems with a Workflow Server require this process.
2. SiteConfig Workflow Server software install. Only systems with a Workflow Server require this process.
3. SabreTooth Rules, Xcode license process. Only the GV STRATUS server with role of Common Services requires this process.

SiteConfig Workflow Server network set up

Only systems with a Workflow Server require this process.

If you received your system already set up from Grass Valley, your Workflow Server or Servers are already included in the SiteConfig system description and set up on the network, so you can skip these tasks. Otherwise, work through the topics in this section.

Adding a Workflow Server to the SiteConfig system description

- Workflow Servers are racked, cabled, and powered on.
- The system description must contain a group.

This topic applies to a GV STRATUS server that is a Workflow Server.

1. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
2. Configure settings for the device you are adding as follows:
 - Family: GV STRATUS
 - Device Type: GV STRATUS Server
 - Model: GV STRATUS Workflow Server
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select the number of Workflow Servers, according to your system design.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.

3. Click **OK** to save settings and close.

SiteConfig adds the Workflow Server to the system description as a placeholder device.

4. Verify that unmanaged control network interface is configured correctly and modify if necessary.

Next, add the GV STRATUS server to the control network.

Adding a GV STRATUS server to the control network with SiteConfig

Use SiteConfig to configure network settings on a GV STRATUS server.

Before doing this task, make sure the GV STRATUS server is added as a placeholder device to the SiteConfig system description.

The following steps are the standard tasks for adding a device to the control network using SiteConfig. Use these steps for the GV STRATUS server you are adding.

1. Discover the device using SiteConfig device discovery.
2. Assign the discovered device to the placeholder device in the SiteConfig system description.
3. Modify the control network interface to ensure communication on the control network.

4. Modify the host name and/or device name as desired.
5. Ping the device to verify network communication.
6. Verify credentials to ensure SiteConfig can install software on the device.
7. Generate and/or add to host tables as appropriate for your network.

Related Topics

[Adding a device to a network with SiteConfig](#) on page 419

[Adding a device to a network with SiteConfig](#) on page 419

SiteConfig Workflow Server software install

Only systems with a Workflow Server require this process.

If you received your system pre-configured from Grass Valley, software is already installed, so you can skip these tasks. Otherwise, work through the tasks in this section as follows:

- If your GV STRATUS system has one or more GV STRATUS servers that are Workflow Servers, install software on those servers.

If your GV STRATUS system has a single GV STRATUS Express server or a GV STRATUS Core server and no Workflow Servers, the GV STRATUS Express server or GV STRATUS Core server has Workflow Server software installed. Follow software installation instructions for the GV STRATUS Express server or GV STRATUS Core server, rather than the instructions in this section.

Setting deployment options

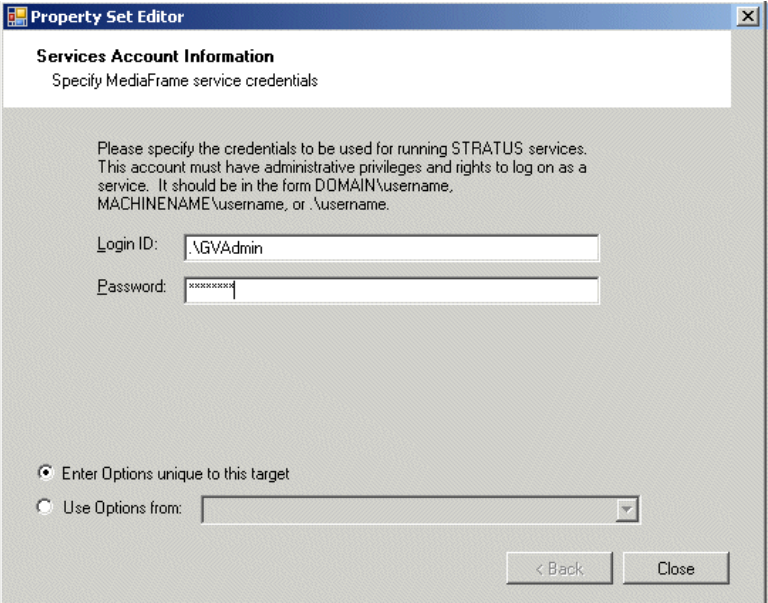
- A software package must be assigned to the deployment group and applicable deployment tasks must be displayed in the Tasks area.
1. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
 2. In the Tasks list view, view tasks and determine if you must set deployment options.

Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."

If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.
 3. Do one of the following to set deployment options:
 - Double-click the task.
 - Select the task and click the **Options** button.

A wizard opens.

4. Work through wizards and set deployment options for GV STRATUS software as follows:

Software	Deployment options
GrassValley_STRATUS_CoreServices	 <p>The account must be the internal system account, which by default is GVAdmin. It is advisable to enter it as .\accountname where the "." means a local account. Entering the local account in this way allows you to use the Use options from feature for all other devices of the same type. Once you enter the local account in this way on the first device, it becomes the template from which options for other devices are copied.</p>
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

5. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options. SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

Installing software on a Workflow Server

Only systems with one or more GV STRATUS servers that are Workflow Servers require this process. Use SiteConfig to install software on the Workflow Servers.

Prerequisites:

- The server on which you are installing software is in the SiteConfig system description and communicating on the control network.
 - The server on which you are installing software has its credentials set in SiteConfig to allow access.
1. Verify the SiteConfig roles currently assigned to the server. If the roles are not correct for your system design, add or remove roles accordingly. Roles are as follows:
 - GV STRATUS Event Viewer
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Control Panel
 - GV Log Manager
 2. Add the server to a deployment group, such as the GV STRATUS deployment group.
 3. Add the following files to the deployment group:
 - *GrassValley_CoreServer_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_GVEventViewer_x.x.x.cab*
 - *GrassValley_STRATUS_Mediaflow_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Rules_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_Transcode_Engine_x.x.x.cab*
 - *GrassValley_STRATUS_TrafficGateway_x.x.x.cab*
 - *GrassValley_Sabretooth_Application_x.x.x.cab*
 - *GrassValley_LogManager_x.x.x.cab*
 - *GrassValley_STRATUSClient_x.x.x.cab*, which contains the following cab files that apply to this device:
 - *GrassValley_STRATUS_ControlPanel_x.x.x.cab*
 - *GrassValley_K2system_x.x.x.cab*.

Refer to release notes for version numbers.

4. Do the SiteConfig **Check Software** operation on the server.

NOTE: *If an "Unable to copy ... to target" error appears for a device that has the Grass Valley Embedded Security solution, apply the Embedded Security solution one-time initial deployment process to the device. After the one-time process is complete the error does not appear and it is no longer necessary to put Embedded Security in Update mode.*

5. Verify that deployment tasks are set to **Install** for the files listed above.

If a WRegMon install task appears, install it as well. It is required to support Grass Valley software installers. There is no uninstall task.

6. Deploy software to the server.

7. Restart as prompted.

When running the Data Mover Engine on the Workflow Server, make sure the Workflow Server can access all potential communication partners for the DME, including the FTP network of the K2 SAN and standalone systems.

Next, license the Workflow Server.

Related Topics

[GV STRATUS servers logon account](#) on page 198

[Complete listing of device types, roles, and software packages for GV STRATUS devices](#) on page 148

SabreTooth Rules, Xcode license process

Only the GV STRATUS server with role of Common Services requires this process.

The Workflow license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

One STRATUS-RULES license is required for the Rules Engine software component in your GV STRATUS system. This is a SabreTooth floating license. Optional licenses for associated functionality include the following:

- STRATUS-XCODECONTROLCARBONCODER
- STRATUS-XCODECONTROLVANTAGE
- STRATUS-XCODECONTROLELEMENTAL
- STRATUS-ASPERA
- STRATUS-BRIGHTCOVE
- STRATUS-XCODECONTROLMEWS
- STRATUS-XCODECONTROLMEWSEXT

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

Configuring Engines settings: Workflow

Systems using GV STRATUS rules require this process. This includes systems with and without a separate Workflow Server.

If you received your system pre-configured from Grass Valley, your Engines settings are already configured so you can skip these tasks. Otherwise, work through this section to configure your Engines settings.

To locate these settings, click **Core | Engines**

Depending on the workflow and bandwidth requirements of your system, Grass Valley may provide a system design in which multiple engines of the same type run on one or more servers. Configure engines as specified by your system design.

1. In the Control Panel application, open Engines settings.

Configured	Engine Type	Hostname	Services	Action	Status
<input checked="" type="checkbox"/>	Render Engine	KL_SAN_CONF1	GVRenderEngine		Running
<input checked="" type="checkbox"/>	Workflow	KULAS-K2SERVER	gvmf_workflowengine		Running
<input checked="" type="checkbox"/>	Rules	KULAS-K2SERVER	gyrulesengine		Running
<input checked="" type="checkbox"/>	Xcode Control	KULAS-K2SERVER	gytranscodeengine		Running
<input checked="" type="checkbox"/>	Data Mover	KULAS-K2SERVER	gydatamoverengine		Running

Buttons: Save, Cancel, Refresh

Settings are described as follows:

Setting or button	Description
Configured	Selects an Engine for which settings are saved.
Hostname	The name of a GV STRATUS server that hosts the Engine.
Engine Type	The Engine components installed on the GV STRATUS server.
Status	Indicates if the Engine service is running or stopped.
Action	Starts and stops the Engine service.
Save	Saves current settings to selected GV STRATUS servers.
Cancel	Returns settings to their last saved state.
Refresh	Updates the list.

2. Click **Refresh** to make sure the list has the latest information from SiteConfig.

3. Verify that GV STRATUS servers with one or more of the following roles are listed, with corresponding Engine Types:
 - GV STRATUS Workflow Engine
 - GV STRATUS Rules Engine
 - GV STRATUS Xcode Control Engine
4. To save settings, in the **Configured** column, select each GV STRATUS server with one of the Engine Type roles.
 You must save settings at initial install/config and any time a GV STRATUS server with an Engine Type role is added, removed, or modified in SiteConfig.
5. Click **Save**.
 Settings are saved to the selected GV STRATUS servers.

Next, configure rules.

Fully qualified domain configuration

Only systems that must be integrated with a fully qualified domain require this process.

Use the topics in this section as appropriate for the site's domain requirements.

Prerequisites for Grass Valley domain configuration topics

Only qualified Grass Valley personnel should use these topics.

The topics in this section provide high-level configuration and reference information. The topics are intended for Grass Valley personnel that are certified for domain configuration. Conceptual explanations and detailed steps are not included, as these are assumed to be known by the certified individual. Do not attempt to use these topics if you are not qualified.

In the task flow for configuring a standard GV STRATUS system in customer documentation, instructions are not provided for a fully qualified domain. Those specialized instructions are provided in this section, but other standard system configuration instructions are not. Grass Valley personnel certified for domain configuration must combine the standard instructions with the specialized instructions as appropriate.

Active Directory integration checklist

These questions must be answered at the customer site before configuring the domain.

	Requirement	Question	Answer
<input type="checkbox"/>	There must be a domain at the customer site.	What is the name of the current domain?	
<input type="checkbox"/>	Grass Valley personnel must have access to DNS servers to view/verify DNS entries.	What are the names and IP addresses of DNS servers?	

	Requirement	Question	Answer
<input type="checkbox"/>	A dedicated domain is recommended but not required.	What is the name of the domain dedicated for Grass Valley systems?	
<input type="checkbox"/>	A dedicated Organizational Unit (OU) is required.	What is the name of the OU dedicated for Grass Valley systems?	
<input type="checkbox"/>	Local administrator rights are required.	What is the name of the Group Policy and OU to which local administrator rights are applied?	
<input type="checkbox"/>	GV devices must be integrated into DNS.	Are you prepared to integrate GV devices into your DNS?	
<input type="checkbox"/>	Non-complex passwords are required.	What is the name of the OU and/or Group that enables non-complex passwords?	
<input type="checkbox"/>	Domains must have trust relationships to allow GV services to run.	Are there multiple domains? If so, what are the trust relationships between domains?	
<input type="checkbox"/>	Domain/DNS servers must be co-located with GV equipment.	Where are the Domain/DNS servers located?	

Users in a group in the domain

These users accounts and credentials are required.

Place the users in the table below into a Grass Valley Administrators group. Name the group with a name such "Grass Valley Administrators". Requirements for this group are as follows:

- The group must be added to a Restricted Group Policy in your 2003 or 2008 domain.
- Complex passwords must be disabled or not required.

Table 16: Grass Valley domain accounts

User name	Password	Permissions	Note
GVAdmin	Administrator password	Local admin	This account is required. It is the default internal system account.
movie	M0vieK2M0vie	Local admin	This account is required.
<an account to run Grass Valley services>	Administrator password	Local admin	This account is a recommended best practice. This account is dedicated to run Grass Valley services, so that problems with other accounts do not cause service access errors. It is named with a unique account name.

Internal system/domain account considerations

By default, the internal system account that the GV STRATUS system uses to access assets and some internal system functions is the GVAdmin account. If your site policies require a fully qualified domain account or a different account, that account must be configured throughout the GV STRATUS system.

You configure the internal system account settings in GV STRATUS Control Panel. To locate these settings, click **Core | STRATUS Core Services | Primary Site**. This account is used by the K2 Summit system and by the GV STRATUS system to write proxy files to the CIFS proxy share on the server hosting the GV STRATUS system HTTP server.

Take the following into consideration if your system does not use the default internal system/domain account.

- All GV STRATUS, K2 Summit, High resolution media storage, and Proxy media storage servers must allow the internal system account to have administrator privileges. This includes the following:
 - The proxy share on the server hosting the GV STRATUS system HTTP server. Depending on system configuration, this could be one of the following types of servers:
 - GV STRATUS Express server
 - GV STRATUS Proxy server
 - GV STRATUS Proxy Storage file system server
 - Summit MDI
 - The Xcode Engine working directory
 - K2 Summit system
 - The EDIUS project folder on the K2 media file system
 - An export share to which K2 media or GV STRATUS assets are exported
 - For consistency, a server that runs the FileZilla FTP service and the associated Generic FTP MDI settings can also use the internal system account for FTP access.

- GV STRATUS software components that are installed with the following installation packages require the internal system account. You configure this account in deployment options when you install the software.

GrassValley_STRATUS_CoreServices

GrassValley_STRATUS_Database

GrassValley_STRATUS_DataMover

GrassValley_STRATUS_CRArchive_MDI

GrassValley_STRATUS_DIVA_MDI

GrassValley_STRATUS_FlashNet_MDI

GrassValley_STRATUS_Masstech_MDI

GrassValley_STRATUS_GFTP_MDI

GrassValley_STRATUS_GVEventViewer

GrassValley_STRATUS_HttpProxyServer

GrassValley_STRATUS_IngestServices

GrassValley_STRATUS_MediaFlow

GrassValley_STRATUS_MEWS

GrassValley_STRATUS_Proxy_Encoder

GrassValley_STRATUS_RenderEngine

GrassValley_STRATUS_Rules

GrassValley_STRATUS_ScheduledTransferEngine

GrassValley_STRATUS_Summit_MDI

GrassValley_STRATUS_TrafficGateway

GrassValley_STRATUS_Transcode

GrassValley_LogManager

- SQL Security logins must be configured for the internal system/domain account.

Related Topics

[*About the GV STRATUS system user*](#) on page 412

Configure domain on all Grass Valley products

Once the domain is set up, configure the domain on Grass Valley products.

Before doing this task, the Grass Valley personnel must have authority, or be working with on-site IT personnel who have authority, to configure GV computers and groups in the domain.

1. Add all Grass Valley devices to the domain.
If you are using DNS that is available on the domain server make sure you update your DNS entry accordingly.
2. On GV STRATUS servers, configure GV STRATUS services to logon with your internal system/domain account.
 - a) Open the Windows operating system Services Control Panel.
 - b) From the following list, identify the services running on the server, and configure each of those services to logon with your internal system/domain account.
 - GV STRATUS ASK
 - GV STRATUS Asset mgr
 - GV STRATUS Data Mover Engine
 - GV STRATUS MDI DIVA.
 - GV STRATUS MDI Encoder.
 - GV STRATUS MDI Flashnet.
 - GV STRATUS MDI Masstech.
 - GV STRATUS MDI GFTP. (Optional)
 - GV STRATUS MDI Proxy
 - GV STRATUS MDI Summit
 - GV STRATUS MediaFlow Workflow Engine
 - GV STRATUS Resolver
 - GV STRATUS Rules Wizard
 - GV STRATUS Scheduled Transfer Engine
 - GV STRATUS Traffic Gateway
 - GV STRATUS Transfer mgr
 - GV STRATUS Xcode Control Engine

The following is an example of a script for automation from the command line. In this example the domain name is GVDOMAIN and the internal system account is GVAdmin:

```
sc config "StorageUtilityHost" obj= "GVDOMAIN\GVAdmin" password=
"yourpassword"
```

3. Identify the user groups that must be configured in GV STRATUS Authorization Manager to support the site's workflow, then do the following:
 - a) If a group does not already exist in the domain, create the group in the domain.
Make sure the group name corresponds to the group name required by the GV STRATUS workflow.
 - b) Add users to groups to support the site's GV STRATUS workflow.

Configure SQL Security logins

On the GV STRATUS Core server, SQL Security logins must be configured for the internal system/domain account.

1. Open SQL as Administrator to log on.
2. Open SQL Server Management Studio and browse to **Security | Logins**.
3. Right-click on the Logins and add a new Login.
4. On the General page:

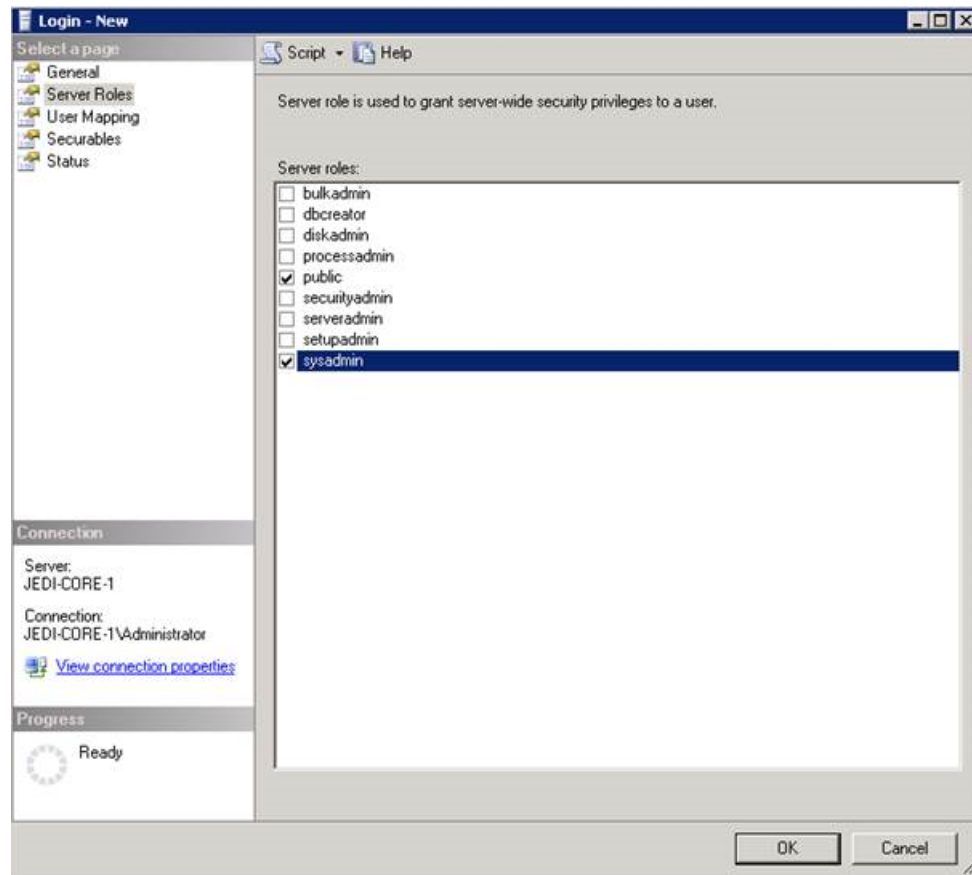
In the **Login name** field, enter the internal system/domain account.

For a domain GVDOMAIN, enter GVDOMAIN\GVAdmin.

The screenshot shows the 'Login - New' dialog box in SQL Server Enterprise Manager. The 'General' tab is selected. The 'Login name' field contains 'GVDOMAIN\GVAdmin'. The 'Authentication' section has 'Windows authentication' selected. The 'Password' section has 'Enforce password policy', 'Enforce password expiration', and 'User must change password at next login' checked. The 'Mapped to certificate', 'Mapped to asymmetric key', and 'Map to Credential' options are not selected. The 'Mapped Credentials' table is empty. The 'Default database' is set to 'master' and the 'Default language' is set to '<default>'. The 'Connection' section shows 'Server: JEDI-CORE-1' and 'Connection: JEDI-CORE-1\Administrator'. The 'Progress' section shows 'Ready'.

5. On the Server Roles page:

Check the box for **public** and **sysadmin** Server Roles.



6. Click **OK** to save settings and close.

Domain SiteConfig setup for software installation and upgrades

Before deploying software, you must ensure that the internal system/domain account is configured in deployment options. Failure to do so can result in the software installation process changing the internal system/domain account back to the default account. Once deployment options are configured, they are retained for future deployment sessions.

1. Follow steps for a normal GV STRATUS/Summit system, but with the following steps to ensure that the internal system/domain account is configured in deployment options.
2. In the **Software Deployment | Deployment Groups** tree view, select a deployment group.
3. In the Tasks list view, view tasks and determine if you must set deployment options.

Tasks that need to have deployment options set display in the Details column a message stating "Deployment options required."

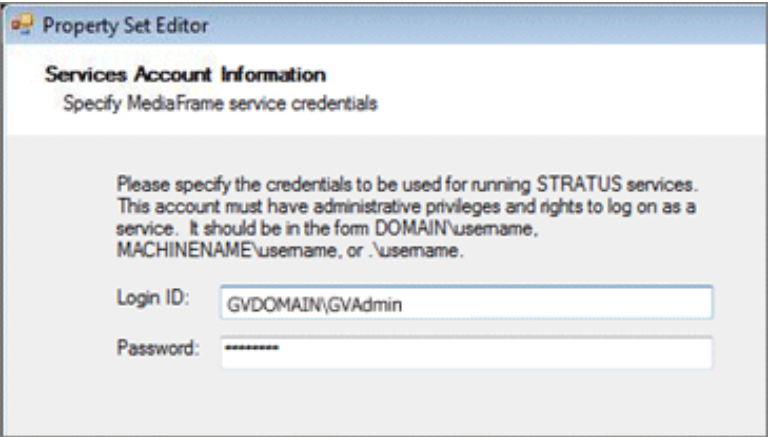
If you select a task that needs to have its deployment options set, the Start Deployment button is disabled and the message is displayed next to the button.

4. Do one of the following to set deployment options:

- Double-click the task.
- Select the task and click the **Options** button.

A wizard opens.

5. For the following install packages that require a services account, work through wizards and use the internal system/domain account.

Software	Deployment options
GrassValley_STRATUS_CoreServices	
GrassValley_STRATUS_Database	
GrassValley_STRATUS_DataMover	
GrassValley_STRATUS_CRArchive_MDI	
GrassValley_STRATUS_DIVA_MDI	
GrassValley_STRATUS_FlashNet_MDI	
GrassValley_STRATUS_Masstech_MDI	
GrassValley_STRATUS_GFTP_MDI	
GrassValley_STRATUS_GVEventViewer	
GrassValley_STRATUS_HttpProxyServer	
GrassValley_STRATUS_IngestServices	
GrassValley_STRATUS_MediaFlow	
GrassValley_STRATUS_MEWS	
GrassValley_STRATUS_Proxy_Encoder	
GrassValley_STRATUS_RenderEngine	
GrassValley_STRATUS_Rules	
GrassValley_STRATUS_ScheduledTransferEngine	
GrassValley_STRATUS_Summit_MDI	
GrassValley_STRATUS_TrafficGateway	
GrassValley_STRATUS_Transcode	
GrassValley_LogManager	

6. If you have multiple devices of the same type, you can enter deployment options for one of them using the wizard. Then, when you bring up the same wizard on every device, you can choose the **Use options from** radio button and select the first device for which you set options.

SiteConfig copies the options you set for the first device and fills in the blanks on the wizard.

7. Install software via SiteConfig as you would for a standard GV STRATUS/Summit system.

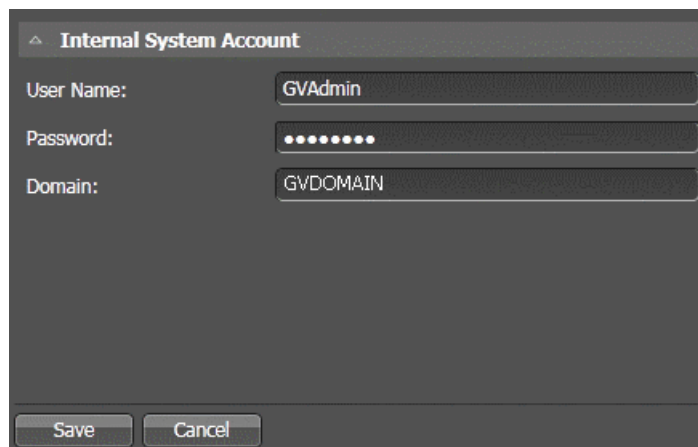
Domain GV STRATUS Control Panel configuration

Before configuring GV STRATUS Control Panel:

- The entire system must be restarted in the following order so that the registry settings take effect:
 - K2 systems
 - All other servers
 - GV STRATUS servers and K2 Summit systems must be licensed.
 - K2 Summit system channels must be configured.
1. Configure Control Panel as you would a normal GV STRATUS system, except for the following steps.

In some fields you must manually enter text rather than selecting from a list.

2. Select **Core | STRATUS Core Service | Primary Site** and do the following:
 - a) Set the Database Server to the core name and choose a site name.
 - b) Under **Internal System Account**, enter the domain.



△ Internal System Account

User Name: GVAdmin

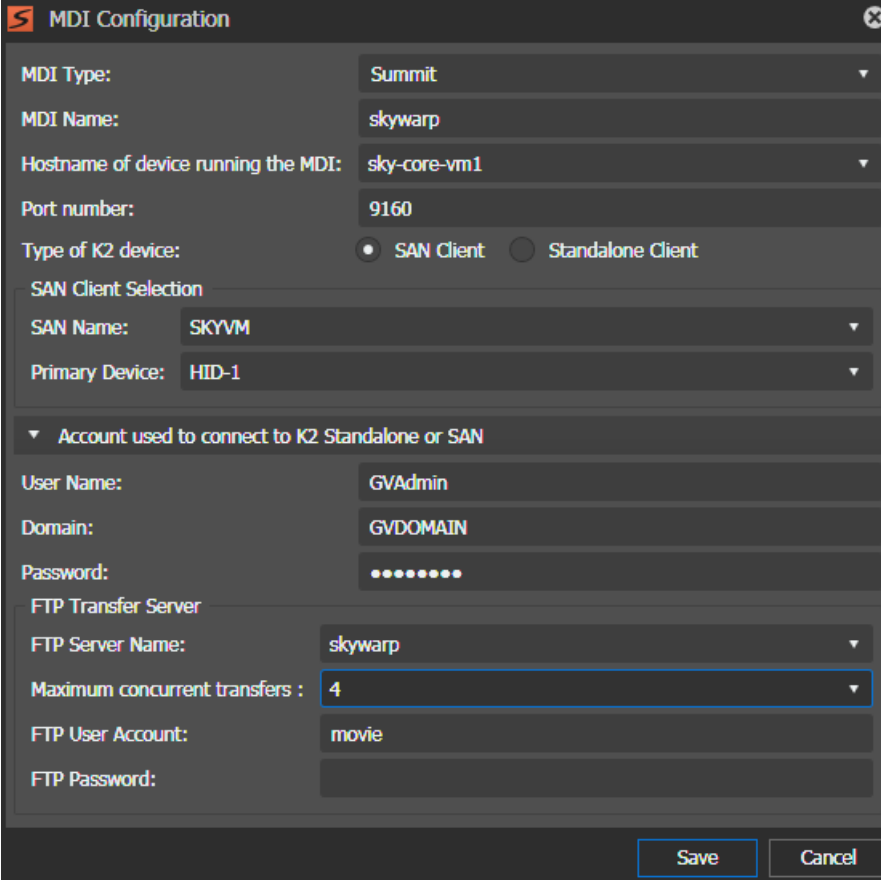
Password: ●●●●●●●●●●

Domain: GVDOMAIN

Save Cancel

3. Select **Core I MDI** and configure a Summit MDI to your SAN.

The SAN name is arbitrary. Choose the name that you want to appear in the Navigator of GV STRATUS. Be sure to set the credentials to use the GVAdmin account on the fully qualified domain, such as GVDOMAIN.



The image shows the 'MDI Configuration' dialog box. It has a title bar with a red 'S' icon and a close button. The dialog is divided into several sections. The first section contains fields for 'MDI Type' (Summit), 'MDI Name' (skywarp), 'Hostname of device running the MDI' (sky-core-vm1), 'Port number' (9160), and 'Type of K2 device' (SAN Client selected). Below this is a 'SAN Client Selection' section with 'SAN Name' (SKYVM) and 'Primary Device' (HID-1). The next section is 'Account used to connect to K2 Standalone or SAN', which includes 'User Name' (GVAdmin), 'Domain' (GVDOMAIN), and 'Password' (masked with dots). The final section is 'FTP Transfer Server', with fields for 'FTP Server Name' (skywarp), 'Maximum concurrent transfers' (4), 'FTP User Account' (movie), and 'FTP Password' (empty). At the bottom right are 'Save' and 'Cancel' buttons.

MDI Type:	Summit
MDI Name:	skywarp
Hostname of device running the MDI:	sky-core-vm1
Port number:	9160
Type of K2 device:	<input checked="" type="radio"/> SAN Client <input type="radio"/> Standalone Client
SAN Client Selection	
SAN Name:	SKYVM
Primary Device:	HID-1
▼ Account used to connect to K2 Standalone or SAN	
User Name:	GVAdmin
Domain:	GVDOMAIN
Password:
FTP Transfer Server	
FTP Server Name:	skywarp
Maximum concurrent transfers :	4
FTP User Account:	movie
FTP Password:	

4. Select **Core I MDI** and set up Generic FTP MDI, if applicable.

5. Select **Applications | Ingest | Channel Setup** and set the credentials to use the internal system/domain account.

6. Select **Applications | RMI** and set the credentials to use the internal system/domain account.

The K2 setting is the name you used for your Summit MDI. After entering this you should be able to browse to the desired Default Import Destination.

7. Shut down the entire system.

8. Power up in the following order:
 - FSM/K2 Manager (Log in before powering up K2 Summit clients.)
 - K2 Summit systems (Verify AppCenter is functioning on each client before powering up other servers.)
 - All other servers.
9. Finish configuration of other devices (such as EDIUS, XRE/Render Engine, NCS/GV STRATUS Rundown, Archive servers etc.) as needed.

Some reboots may be required.

Verify domain and internal system account

Make sure the correct accounts are configured throughout the system.

1. On GV STRATUS servers, verify that services are using the correct accounts.
 - a) Open the Windows operating system Services Control Panel.
 - b) From the following list, identify the services running on the server, and verify that the correct domain and internal system account is listed in the **Log On As** column.

For example, verify that **GVDOMAIN\GVAdmin** is listed in the **Log On As** column.

 - GV STRATUS ASK
 - GV STRATUS Asset mgr
 - GV STRATUS Data Mover Engine
 - GV STRATUS MDI DIVA.
 - GV STRATUS MDI Encoder.
 - GV STRATUS MDI Flashnet.
 - GV STRATUS MDI Masstech.
 - GV STRATUS MDI GFTP. (Optional)
 - GV STRATUS MDI Proxy
 - GV STRATUS MDI Summit
 - GV STRATUS MediaFlow Workflow Engine
 - GV STRATUS Resolver
 - GV STRATUS Rules Wizard
 - GV STRATUS Scheduled Transfer Engine
 - GV STRATUS Traffic Gateway
 - GV STRATUS Transfer mgr
 - GV STRATUS Xcode Control Engine

2. On the GV STRATUS Core Server, verify that AppPool is using the correct accounts as follows:
 - a) Open the Windows operating system Server Manager.
 - b) In the tree-view navigate to **Roles | Web Server (IIS) | Internet Information Services (IIS) Manager | Connections | <server_name> | Application Pools**.
 - c) For the following Application Pool, verify that the correct domain and internal system accounts are listed in the **Identity** column.
For example, verify that **GVDOMAIN\GVAdmin** is listed in the **Identity** column.
 - STRATUSAppPool
3. On the server hosting the GV STRATUS system HTTP server, such as GV STRATUS Express server, GV STRATUS Proxy server, or GV STRATUS Proxy Storage file system server, repeat steps and verify the following:
AppPool:
 - HttpProxyAppPool
4. On the GV STRATUS Conform Server, repeat steps and verify the following:
Windows Service:
 - GV STRATUS Conform Engine
 AppPool:
 - STRATUSAppPool
5. On the GV STRATUS Proxy Encoder, repeat steps and verify the following:
Windows Service:
 - GV STRATUS MDI Encoder
 AppPool:
 - STRATUSAppPool

CIFS storage configuration

Only systems with a GV STRATUS Express server, K2 Summit standalone systems, proxy server, and EDIUS systems require this process.

Use the topics in this section as appropriate for the site's storage requirements.

Prerequisites for CIFS storage configuration topics

Only qualified Grass Valley personnel should use these topics.

The topics in this section provide high-level configuration and reference information. The topics are intended for Grass Valley personnel that are certified for storage configuration. Conceptual explanations and detailed steps are not included, as these are assumed to be known by the certified individual. Do not attempt to use these topics if you are not qualified.

If using a Network Load Balancing (NLB) cluster, the SINGLE host mode must be selected under the Custom Port Rules setting. SINGLE will run the system in an active/passive mode, with only one host being used at a time. This is required because SNFS has an issue with multi-host access from different host servers at the same time.

In the primary task flow for configuring a standard GV STRATUS system in customer documentation, complete instructions are not provided for CIFS storage. Those specialized instructions are provided in this section, but the complete standard system configuration instructions are not. Grass Valley personnel certified for storage configuration must combine the standard instructions with the specialized instructions as appropriate.

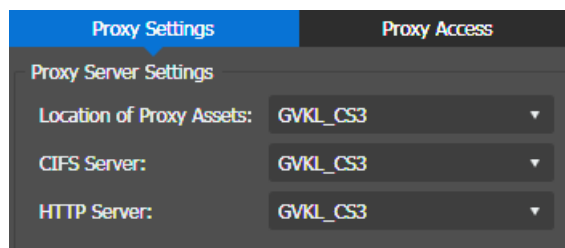
CIFS storage GV STRATUS Control Panel configuration

Before configuring GV STRATUS Control Panel:

- The entire system must be restarted in the following order so that the registry settings take effect:
 - K2 systems
 - All other servers
 - GV STRATUS servers and K2 Summit systems must be licensed.
 - K2 Summit system channels must be configured.
1. Configure Control Panel as you would a normal GV STRATUS system, except for the following steps.

In some fields you must manually enter text rather than selecting from a list.

2. Select **Core | ProxyConfig | Proxy Settings** and do the following:
 - a) Set the Location of Proxy Assets, CIFS Server, and HTTP Server.



- b) Enable proxy Creation to set the proxy registry keys on the Summit clients.
 - c) Enable Proxy Encoders for auto-scavenging.
 - d) Save and Test Connections.
3. Mount the V: drive to your Proxy server and any high resolution GV STRATUS/EDIUS clients.

For a GV STRATUS Express system with K2 Summit standalone systems, mount a K2 Summit standalone system.

- Click **Core | MDI Configuration | Add | Summit** and select **Standalone** for the type of K2 device. Then set the UNC path for the K2 Summit standalone system, use a path such as the following:

```
\\standalone_summit\V
```

Complete the MDI configuration and click **Save**.

- Restart the entire system.

CIFS EDIUS/GV Render Engine Setup

- Install/upgrade EDIUS and GV Render Engine software as directed by standard instructions in GV STRATUS customer documentation.
Make sure you follow the proper sequence for installation and running applications.
- Mount the v: drive to your GV Render Engine server and any high resolution GV STRATUS/EDIUS clients.
 - For a GV STRATUS Express system with K2 Summit standalone systems, mount a K2 Summit standalone system.
- Add an EDIUS project folder at the root of the v: drive, as directed by standard instructions in GV STRATUS customer documentation.

4. In GV

- For local storage with \\s
- For of t
- K2 Summit

The screenshot shows a configuration window for K2 Summit storage. The 'Hostname of device running the MDI:' is set to 'stratus'. The 'Port number:' is '9161'. The 'Storage type:' is set to 'Standalone' (selected with a radio button). The 'Select K2 Standalone:' dropdown is set to 'kd_summit_10'. The 'UNC Path:' is '\\kd_summit_10\\V'. Under the 'Account used to connect to K2 Standalone or SAN' section, the 'User Name:' is 'GVAdmin', 'Domain:' is empty, and 'Password:' is masked with dots. The 'FTP Transfer Server' section has 'FTP Server Name:' set to 'kd_summit_10_he0', 'Maximum concurrent transfers :' set to '4', 'FTP User Account:' set to 'movie', and 'FTP Password:' is empty. 'Save' and 'Cancel' buttons are at the bottom right.

5. Follow the instructions in the this Topic Library to complete EDIUS and GV Render Engine setup for CIFS mount.

Related Topics

[Configuring CIFS Render Engine settings](#)

Grass Valley SMB Storage configuration

Prerequisites for SMB storage configuration topics

Only qualified Grass Valley personnel should use these topics.

The topics in this section provide high-level configuration and reference information about Grass Valley's support of Server Message Block (SMB) storage. The topics are intended for Grass Valley personnel that are certified for storage configuration. Conceptual explanations and detailed steps are not included, as these are assumed to be known by the certified individual. Do not attempt to use these topics if you are not qualified.

In the primary task flow for configuring a standard K2 or GV STRATUS system in customer documentation, instructions are not provided for SMB storage. Those specialized instructions are provided in this section, but the complete standard system configuration instructions are not. Grass Valley personnel certified for storage configuration must combine the standard instructions with the specialized instructions as appropriate.

Storage and domain requirements for SMB storage

The K2 Summit system on SMB storage must be created with the following requirements for hi-res and lo-res locations and domain.

- One private share:
 - Private Media Share: This is a high-resolution realtime network. This network must be segmented, non-routable, and private. For example purposes in these topics, this share is represented by the following:

```
\\gvstorage-private\mediashare
```

- Two public shares:
 - Public Media Share: This is a high-resolution non-realtime network. For example purposes in these topics, this share is represented by the following:

```
\\gvstorage-public\mediashare
```

- Public Proxy Share: This is a low-resolution network. For example purposes in these topics, this share is represented by the following:

```
\\gvstorage-public\proxy
```

There should only be one proxy location used throughout the system.

- Besides configuring the Control Network, the following servers might require a special network adapter to connect to the SMB storage:
 - HTTP Proxy Server
 - Conform, Encoder, Render Engine, and XRE server(s)
 - FSM/K2 Manager
 - K2 Summit Clients systems
- The system must be on a fully qualified domain.

For details about configuring a specific brand of SMB storage to support K2 Summit systems, refer to the [Grass Valley Knowledge Base](#).

SiteConfig software installation and upgrade on SMB storage systems

Before deploying software, you must ensure that roles are configured to support SMB storage. Failure to do so can result in the software installation process changing back to default roles. Once roles are configured, they are retained for future deployment sessions.

1. Follow steps for a normal GV STRATUS/Summit system, but with the following steps to ensure that roles are configured and software is installed.
2. Identify the software that corresponds to the following SiteConfig roles. This software must be uninstalled before these roles are removed.
 - All SNFS (StorNext File System) roles on K2 Summit clients, K2 Manager, XRE, Render Engine, Conform, Proxy Encoder, and HTTP Proxy server.
 - The iSCSI bridge role on the K2 Manager.

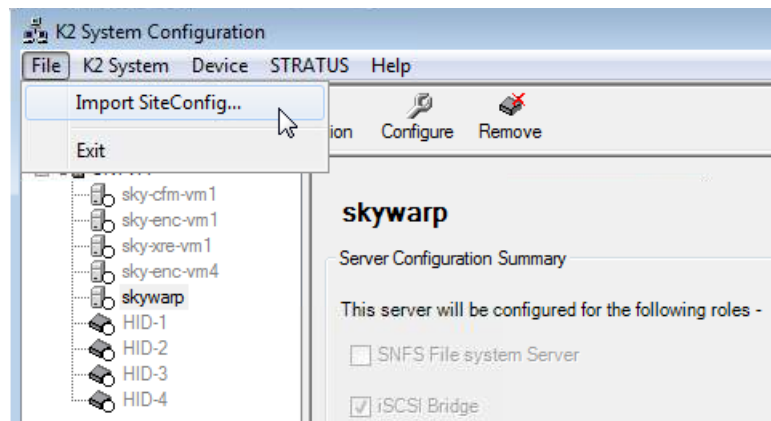
3. Using SiteConfig, uninstall the identified software.
 - a) In the **Software Deployment | Deployment Groups** tree view, select the device or the group of devices to which you are deploying software.

The corresponding software deployment tasks are displayed in the Tasks list view.
 - b) For the software you are deploying, select the **Deploy** check box in the row for the uninstall task.
 - c) Unselect the **Deploy** check box for all other deployment tasks for all other software.
 - d) Click the **Start Deployment** button.

Deployment tasks run and software is uninstalled. Progress is reported and next steps are indicated in both the Status and Details columns.
 - e) Perform manual steps if indicated, such as dismissing a dialog box on the device and/or restarting the device.
 - f) Monitor progress as indicated by both the Status and Details column. When finished, the Status column indicates complete.
4. Remove SiteConfig roles as follows.
 - All SNFS (StorNext File System) roles on K2 Summit clients, K2 Manager, XRE, Render Engine, Conform, Proxy Encoder, and HTTP Proxy server.
 - The iSCSI bridge role on the K2 Manager.
5. Add the GV STRATUS Summit Services role to the K2 Manager.
6. Sync to the core as follows:
 - a) Select **Tools | Options | Network Configuration**, and enter the core server name.
 - b) Select **File | Save**.
7. Install software via SiteConfig as you would for a normal GV STRATUS/Summit system.

K2Config setup for SMB storage

1. After deploying software, note the location of the saved SCSD in the SiteConfig title bar.
2. Open K2Config (“K2 System Configuration” on the desktop).
3. Select **File | Import SiteConfig** to import the SCSD file into K2Config.



4. Switch from **Online Production** to **ThirdPartyNAS**.

5. Configure the K2 Manager with the UNC path, the high res domain credentials and a chosen File system name.

The screenshot shows a configuration window with the following fields:

- High resolution share UNC path:** \\gvstorage-private\mediashare
- High resolution share user credentials (e.g. domain\user or user):** gvservice\gvadmin
- High resolution share password:** (masked with dots)
- File system name:** ICE

If using FT Server (NEC) for K2 Manager or NH (FTP) roles, connections are the same for all roles. There is one connection to the Private Media Share and one connection to the control (not SMB storage) network. Both control and FTP traffic use the control network. There is no separate connection for FTP traffic.

6. If you have GV Render Engine without the Advanced Encoder role in your operation, remove the GV Render Engine from K2Config.
7. After the K2 Manager reboots, configure the Summit clients. The K2 Manager settings are used by default.
8. Configure the proxy server, and encoder to use CIFS Attached storage access.
9. Under **STRATUS | Network Configuration**, make sure that the core server name is entered.
10. Under **STRATUS | Sync to Control Panel**, select “Overwrite...” and Sync now.
11. Verify that the SiteConfig and K2Config files are up-to-date in the following directories on the core:
 - C:\ProgramData\Grass Valley\ConfigurationDataFiles\K2Config
 - C:\ProgramData\Grass Valley\ConfigurationDataFiles\SiteConfig

Reapply K2 services to the domain after upgrade

When upgrading K2 system software on a system with SMB storage, you must do the following:

- Re-apply the K2Config **ThirdPartyNAS** settings after each K2 Summit system upgrade.

GV STRATUS Control Panel configuration for SMB storage

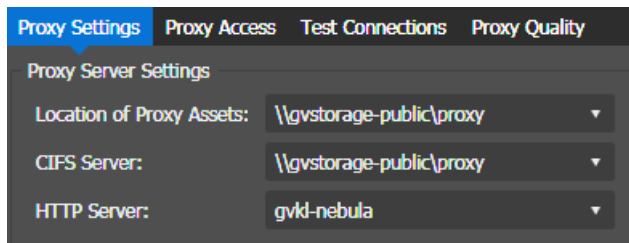
Before configuring GV STRATUS Control Panel:

- The entire system must be restarted in the following order so that the registry settings take effect:
 - K2 systems
 - All other servers
- GV STRATUS servers and K2 Summit systems must be licensed. License K2-NASCONNECT is required.
- K2 Summit system channels must be configured.

- Any configuration on **Core | K2 Storage | Third Party Storage** tab of the GV STRATUS Control Panel must be removed, and services restarted on the GV STRATUS core server, if originally Grass Valley SMB Storage had been configured in the GV STRATUS Control Panel.
1. Configure Control Panel as you would a normal GV STRATUS system, except for the following steps.

In some fields you must manually enter text rather than selecting from a list.

2. Select **Core | Proxy Config | Proxy Settings** and do the following:
 - a) Set the Location of Proxy Assets and CIFS Server to the Public Proxy share, such as `\\gvstorage-public\proxy`.



- b) Enable proxy Creation to set the proxy registry keys on the Summit clients.
- c) Enable Proxy Encoders for auto-scavenging.
- d) Save and Test Connections.

- Click **Core | MDI Configuration | Add | Summit**, select **Third Party Storage** option for the Type of K2 Device, and enter the **UNC Path** to the Public Media share, such as `\\gvstorage-public\mediashare`.

The screenshot shows the 'MDI Configuration' window. The 'MDI Type' is set to 'Summit'. The 'MDI Name' is 'SummitMDI'. The 'Hostname of device running the MDI' is 'gvkl-nebula'. The 'Port number' is '9161'. Under 'Type of K2 device', 'Third Party Storage' is selected. The 'SAN Client Selection' section shows 'SAN Name' as 'SMB', 'Primary Device' as 'SMB', and 'UNC Path' as '\\gvstorage-public\mediashare'. Below this, the 'Account used to connect to K2 Standalone or SAN' section shows 'User Name' as 'GVAdmin', 'Domain' as an empty field, and 'Password' as a masked field. The 'FTP Transfer Server' section shows 'FTP Server Name' and 'Maximum concurrent transfers' as empty dropdowns, 'FTP User Account' as 'movie', and 'FTP Password' as a masked field. 'Save' and 'Cancel' buttons are at the bottom right.

The Summit MDI service will map to this location.

- Mount the SMB storage Public Media Share, such as `\\gvstorage-public\mediashare`, as the V: drive on the hi-res PC.

You can also mount the removable media to the PC.

- Shut down the entire system.
- Power up in the following order:
 - FSM/K2 Manager (Log in before powering up K2 Summit clients.)
 - K2 Summit systems (Verify AppCenter is functioning on each client before powering up other servers.)
 - All other servers.

High resolution GV STRATUS client with SMB storage setup

- The client PC must meet GV STRATUS client PC system requirements.

- The client PC must not have a special network adapter to connect to the SMB Storage.
- 1. Do the following steps to setup a standard GV STRATUS high resolution client PC.
 - a) Install GV STRATUS software on the client PC.
 - b) In GV STRATUS Control Panel, configure the client PC as a high resolution client.
 - c) In GV STRATUS Control Panel, assign licenses and roles as appropriate for user accounts and customer site workflows.
- 2. On the client PC, map the v: drive to the Public Media Share.

EDIUS/XRE Setup for SMB storage

1. Install/upgrade EDIUS and GV Render Engine software as directed by standard instructions in GV STRATUS customer documentation.

Make sure you follow the proper sequence for installation and running applications.
2. Mount the v: drive to your GV Render Engine server and any high resolution STRATUS/EDIUS clients.

- For SMB storage, mount the Public Media Share, such as the following:

`\\gvstorage-public\mediashare`

3. Add an EDIUS project folder at the root of the v: drive, as directed by standard instructions in GV STRATUS customer documentation.
4. In GV STRATUS Control Panel, click **Applications | EDIUS | Default Project Settings** and set **Default project location** to the UNC path of the above EDIUS folder, as follows:

- For SMB storage, use a path to the Public Media Share, such as the following:

`\\gvstorage-public\mediashare\EDIUS`

5. Follow the instructions in the this Topic Library to complete EDIUS and GV Render Engine setup for CIFS mount.
6. For SMB storage, when on the GV Render Engine server using the XRE configuration utility to set the EDIUS project folder, the following workaround is required:

NOTE: You cannot set the project folder by browsing through the network and selecting the folder on SMB storage. You must make this setting with the following steps.

- a) On the XRE/Render Engine Server, in the XRE Management or XREController setting window, save any Project folder configuration.
- b) Exit the XRE configuration utility.
- c) Go to `C:\ProgramData\Grass Valley\EDIUS\8.0\XRE\XREManagementServerSetting.xml`.
- d) Edit and save the project Folder value, as shown in this example:
`<xre:projectFolder>\\gvstorage-public\mediashare\EDIUS</xre:projectFolder>`
- e) Restart the system.

GV Rundown setup for SMB storage

If the system with SMB storage uses GV STRATUS ActiveX for the GV STRATUS Rundown drag-and-drop workflow, implement the workaround for the following Known Problem.

DE7006	Description: After dragging a clip from GV STRATUS ActiveX to the playlist in GV STRATUS Rundown on an SMB (Isilon) system, the clip status never changes to Ready.
	Workaround: On the K2 Media Server with role of file system server (FSM), add a domain key to the config file found at <i>C:\Program Files (x86)\Grass Valley\STRATUS Summit Service\Atlas.Service.Summit.ServiceHost.exe.config</i> . The following example illustrates a domain key with value <i>gvservice.com</i> . <pre><appSettings> <add key="Hostname" value="localhost"/> <add key="Username" value="GVAdmin"/> <add key="Password" value="yourpassword"/> <add key="Domain" value="gvservice.com"/> </appSettings></pre> Restart the K2 Media Server to put the change into effect. This requires a restart of the entire system. Make sure you use the correct sequence for shutdown and power up of devices.

You must implement this manual workaround after every upgrade.

K2 Central Storage configuration

Use the topics in this section as appropriate for the K2 Central Storage configuration.

Prerequisites for K2 Central storage configuration topics

Only qualified Grass Valley personnel should use these topics.

The topics in this section provide high-level configuration and reference information about K2 Central storage. The topics are intended for Grass Valley personnel that are certified for storage configuration. Conceptual explanations and detailed steps are not included, as these are assumed to be known by the certified individual. Do not attempt to use these topics if you are not qualified.

Storage and domain requirements for K2 Central

- K2 Central TX Shared Storage supports up to five K2 Summit clients, with 16 channels of 100 Mb/s video streams or up to 20 channels of 50 Mb/s video streams simultaneously.
- Both the Control and FTP networks must be configured for the K2 Central.
- Only the Control network needs to be configured for K2 Summit clients.
- Discovery agents must be installed on K2 Central and K2 Summit clients.
- K2 Central cannot be configured as a proxy server/storage.

- For an Express GV STRATUS system, the K2 Central proxy must be configured to the Express core storage.
- For a medium A1 GV STRATUS system, the K2 Central proxy must be configured to a separate K2 Summit SAN if a SAN is also part of the system. The proxy server must be a K2 SAN client to the SAN system.
- For a large B1/C1 GV STRATUS system, the K2 Central proxy must be configured to the Proxy Storage system server.
- Administrator/GVAdmin passwords could be changed, if necessary.
- Hosts files must be updated and added to domain.

K2 Central Storage setup and installation

Configure as follows:

1. Disconnect network cables and unplug direct connections from K2 Central server to the K2 Summit clients.
2. Switch off the power to K2 Central and take out the front drives.
3. Power on the K2 Central, insert the USB thumb drive, load Acronis, and use the `K2central_v1-11.tib` image to image the K2 Central.

The K2 Central will reboot automatically after the imaging process.

4. Power off the K2 Central to reinsert the front drives, and switch on the power again for the K2 Central server.
5. Configure the Control and FTP networks on the K2 Central server.
6. Update hosts files and add to domain.
7. Install Discovery Agent, and select K2 Central Server as the server type.
8. Procure the `GrassValley_K2system_x.x.x.x.cab`, and install via SiteConfig. Then, reboot the K2 Central server.
9. On the K2 Central desktop, run Storage Initializer to create a new file system. Then, reboot the K2 Central server.
10. After initializing storage, run the K2 Central Config to set the number of FTP streams for K2 Central server to **10**.
11. Share the V: drive of the K2 Central.
12. If you have EDIUS configured in your system, create an EDIUS folder on the V: drive.
13. If the GVAdmin password was changed, update the following file on the K2 Central server:

```
C:\Program Files (x86)\Grass Valley\STRATUS Summit  
Service\Atlas.Service.Summit.ServiceHost.exe.config
```

NOTE: K2 Config does not support the K2 Central system. K2 Central will be corrupted if configured to K2 Config. For GV STRATUS versions 4.8 and higher, K2 Centrals are configured entirely in GV STRATUS Control Panel, once they have been deployed via SiteConfig as K2 Central devices. If you configured a K2 Central in GV STRATUS version 4.5, please refer to the 4.8 upgrade procedures to undo the manual steps that were required to configure K2 Central with GV STRATUS 4.5 application.

SiteConfig software installation on K2 Central

The K2 Summit clients must be disconnected from the K2 Central while software is installed.

1. Follow steps for a normal GV STRATUS/Summit system SiteConfig software installation, but with the following steps to ensure that correct roles are configured and software is installed.
2. In the **Network Configuration | Devices** tree view, right-click a group and select **Add Device**.
3. Configure these settings for the K2 Central server as follows:
 - Family – Select **K2**.
 - Type – Select **K2 Central Server**.
 - Model – Select **K2 Central TX Server**.
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select **1**.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network.
4. Then add K2 Summit clients as follows:
 - Family – Select **K2**.
 - Type – Select **K2 Central Client**.
 - Model – Select **K2 Central Client**.
 - Name – This is the device name, as displayed in the SiteConfig device tree view and device list view. This name can be different than the host name (network name). You can accept the default name or enter a name of your choice. Devices in the tree view are sorted alphabetically.
 - Amount — Select **1**.
 - Platform — Select **x64**.
 - Control network– Select the control network.
 - Starting Address – Select from the list of available addresses on the selected control network. If adding multiple devices, this is the starting address, with addresses assigned sequentially to each device added.
5. Click **OK** to save settings and close.
SiteConfig adds the K2 Central server and K2 Central clients to the system description.
6. Add the K2 Central Server and K2 Central clients to the control network.
7. Then, add the K2 Central Server and K2 Central clients to the desired software deployment group.
8. Add the **GV STRATUS Summit Service** role to the K2 Central server.
9. Add the appropriate system cabs and deploy software.
10. Sync to the core server as follows:
 - a) Select **Tools | Options | Network Configuration**, and enter the core server name.
 - b) Select **File | Save**.
11. Configure and install other GV STRATUS/Summit devices as you normally would.

12. Connect K2 Central clients to the K2 Central server once software is installed.

The K2 Central clients should be automatically configured to the K2 Central storage.

13. Reboot K2 Central clients after connecting them to the K2 Central server.

K2 Summit clients setup for K2 Central

Configure settings as follows:

- Re-image the K2 Summit clients, by selecting K2 Central when imaging.
- Configure only the Control networks on the K2 Summit clients.
- Update hosts files and/or add to domain.
- Install the Discovery agent, and select **K2 Central client** as the server type when installing via SiteConfig.
- Reboot, and reconnect the direct connections to the K2 Central server.
- Configure K2 Summit clients, by applying K2 Central settings to each Summit.
- License the K2 Summit clients and configure K2 channels as desired.

GV STRATUS Control Panel configuration for K2 Central

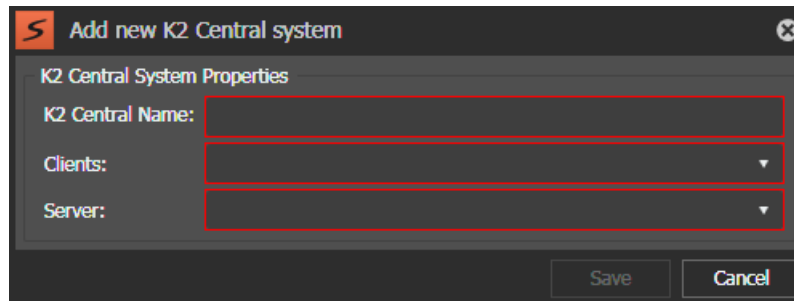
Before configuring GV STRATUS Control Panel:

- The entire system must be restarted in the following order so that the registry settings take effect:
 - K2 systems
 - All other servers
 - GV STRATUS servers and K2 Summit systems must be licensed.
 - K2 Summit system channels must be configured.
 - Existing K2 Central server(s) and clients must be removed as SAN servers/clients and re-added as K2 Central server(s)/clients. Then the core server must be re-synced (by saving SiteConfig configuration) for GV STRATUS Control Panel to see these servers as K2 Central devices to be configured.
 - Any K2 config files must be deleted, and services restarted on the GV STRATUS core server, if originally K2 Central devices had been manually added to these files before configuring K2 Central systems in the GV STRATUS Control Panel.
 - If upgrading the K2 central system, the previously installed software must be uninstalled manually.
1. Configure Control Panel as you would a normal GV STRATUS system, except for the following steps.

In some fields you must manually enter text rather than selecting from a list.

2. Select **Core | K2 Storage | K2 Central | Add**.

The **Add new K2 Central system** dialog box appears.



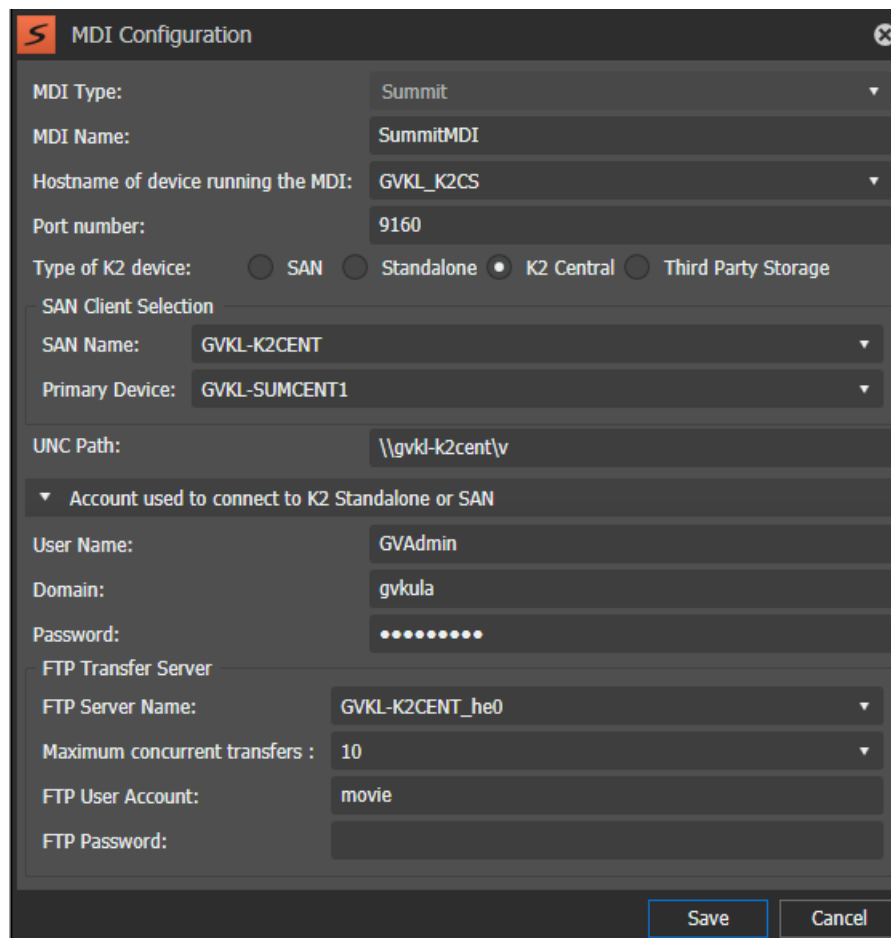
The dialog box titled "Add new K2 Central system" contains the following fields:

- K2 Central System Properties**
 - K2 Central Name:** A text input field.
 - Clients:** A dropdown menu.
 - Server:** A dropdown menu.
- Buttons:** "Save" and "Cancel" buttons at the bottom right.

3. Enter the name of the K2 Central system, select the K2 Central server and K2 clients for the system, and click **Save**.

To add multiple K2 Central systems, you can use the **Add** button repeatedly on the K2 Central tab.

4. Select **Core | MDI** and configure a Summit MDI for the K2 Central system.



The dialog box titled "MDI Configuration" contains the following fields and options:

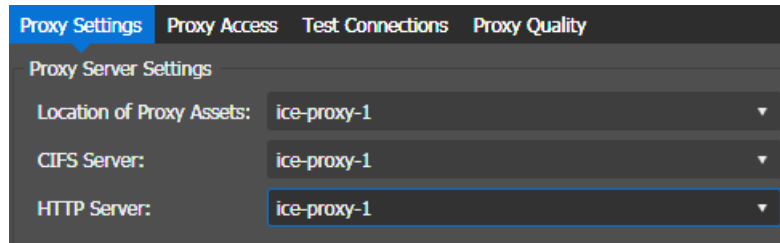
- MDI Type:** Summit (dropdown)
- MDI Name:** SummitMDI (text input)
- Hostname of device running the MDI:** GVKL_K2CS (dropdown)
- Port number:** 9160 (text input)
- Type of K2 device:**
 - ☐ SAN
 - ☐ Standalone
 - ☒ K2 Central
 - ☐ Third Party Storage
- SAN Client Selection**
 - SAN Name:** GVKL-K2CENT (dropdown)
 - Primary Device:** GVKL-SUMCENT1 (dropdown)
- UNC Path:** \\gvkl-k2cent\ (text input)
- Account used to connect to K2 Standalone or SAN**
 - User Name:** GVAdmin (text input)
 - Domain:** gvkula (text input)
 - Password:** (password field)
- FTP Transfer Server**
 - FTP Server Name:** GVKL-K2CENT_he0 (dropdown)
 - Maximum concurrent transfers :** 10 (dropdown)
 - FTP User Account:** movie (text input)
 - FTP Password:** (password field)
- Buttons:** "Save" and "Cancel" buttons at the bottom right.

5. Select **K2 Central** for the Type of K2 device.

The SAN name is arbitrary. Choose the name that you want to appear in the Navigator of GV STRATUS. Enter the UNC path to the K2 Central system.

Be sure to set the credentials to use the GVAdmin account on the fully qualified domain, such as GVDOMAIN. Then, click **Save**.

6. Select **Core | Proxy Config | Proxy Settings** and do the following:
 - a) Set the Location of Proxy Assets, CIFS Server, and HTTP Server.

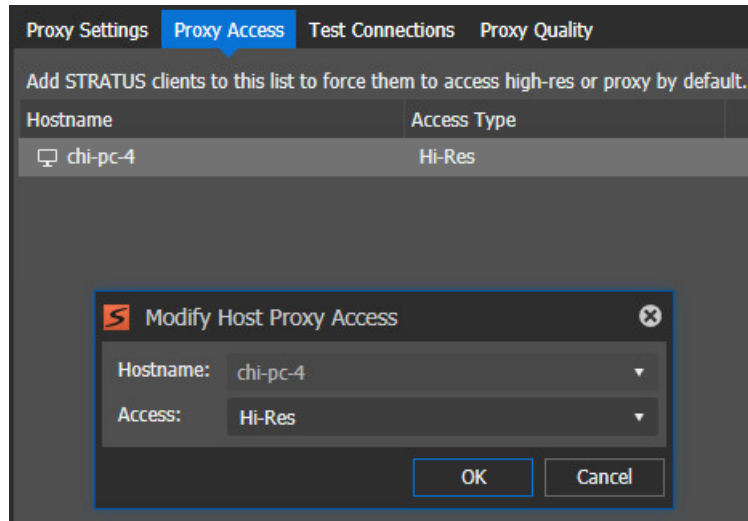


- b) Enable proxy Creation to set the proxy registry keys on the Summit clients.
 - c) Enable Proxy Encoders for auto-scavenging.
 - d) Save and Test Connections.
7. Shut down the entire system.
8. Power up in the following order:
 - FSM/K2 Manager (Log in before powering up K2 Summit clients.)
 - K2 Summit systems (Verify AppCenter is functioning on each client before powering up other servers.)
 - All other servers.
9. Finish configuration of other devices (such as EDIUS, XRE/Render Engine, NCS/GV STRATUS Rundown, Archive servers etc.) as needed.

Some reboots may be required.

High resolution GV STRATUS client with K2 Central setup

- The client PC must meet GV STRATUS client PC system requirements.
1. Do the following steps to setup a standard GV STRATUS high resolution client PC.
 - a) Install GV STRATUS software on the client PC.
 - b) In GV STRATUS Control Panel, click **Core | Proxy Config | Proxy Access** to configure the client PC as a high resolution client.



- c) For Hostname, select the name of the GV STRATUS PC that you are setting as high-resolution client.
 - d) For Access, select **Hi-Res**.
 - e) Click **OK** to save settings and close.
2. On the client PC, map the v: drive to the K2 Central server.

EDIUS/XRE Setup for K2 Central

1. Install/upgrade EDIUS and GV Render Engine software as directed by standard instructions in GV STRATUS customer documentation.
Make sure you follow the proper sequence for installation and running applications.
2. On the K2 Central server, share the V: drive.
3. To configure the EDIUS share folder, contact Grass Valley Support for the qualified setup and configuration with all GV STRATUS system types.
4. Mount the v: drive to your XRE/Render Engine server and any high resolution GV STRATUS/EDIUS clients.

5. In GV STRATUS Control Panel, click **Applications | EDIUS | Default Project Settings** and set **Default project location** to the UNC path of the above EDIUS folder, as follows:
 - For K2 Central, use a path to the EDIUS folder on the K2 Central server, such as the following:

\\[K2CentralServerName]\V\[EdiusFolderName]

NOTE: *If there are multiple K2s on the GV STRATUS system besides the K2Central, then the EDIUS project folder may be located on a different K2.*

6. On the **EDIUS XRE Server** tab, configure the **XRE Server** setting to the desired GV Render Engine server.
7. Click **Core | MDI Configuration | Add | Summit** and set **K2 Central** for the type of K2 device. Select the SAN Name, Primary Device, and set the UNC path to the K2 Central system.

Complete the MDI configuration and click **Save**.

8. Follow the instructions in the this Topic Library to complete EDIUS and GV Render Engine setup for CIFS mount.
9. In the **Core | Engines** settings, verify that each GV Render Engine is displayed, desired streams configured, and the engine status is running.

10. On each GV Render Engine server, do the following:
 - a) Manually map the K2 Central's V: drive (and any other desired K2s) using the FTP IP addresses. For example, if the FTP IP address of K2 Central is 10.148.1.150, then map the K2 Central V: drive as \\10.148.1.150\V, and choose the **Reconnect at logon** option.
 - b) On the **XRE Admin Console | XREController** setting window, save Project folder configuration to the same directory as the EDIUS project location.
 - c) In **XRE Admin Console | GVRenderEngine**:
 - Set the Node name to the local server name.
 - Click the **Setting...** button and set the primary GV Render Engine name, address, and the port number as 1223.
 - Check the server name and click the Connected test button to verify that it's connected to the primary GV Render Engine.
 - d) Exit the XRE configuration utility.
11. Restart the entire GV STRATUS system in the following order:
 - B1 proxy server (if applicable)
 - K2 Central servers, Stand-alones, primary FSMs
 - Secondary FSMs (if applicable)
 - All K2 Summits, iSCSI clients, GVREs, PCs
 - Core/Workflow/DME servers
12. Open Embedded Security Managers on the K2 Central and K2 Summit clients, and put them in Enabled mode.

Troubleshooting the GV STRATUS system

Troubleshooting tools

You can use the following to troubleshoot your GV STRATUS system:

- The GV STRATUS application Status Viewer panel.
- The GV Event Viewer application, on GV STRATUS servers.
- Windows Event Viewer

Also refer to K2 system documentation for K2 troubleshooting information.

Related Topics

[Working with GV Event Viewer](#) on page 401

If you have trouble launching EDIUS XS

Confusion about EDIUS for GV STRATUS licensing can cause problems.

The following is required in order to launch the EDIUS for GV STRATUS as a low-resolution editor (EDIUS XS) correctly:

- Your GV STRATUS system must have a Flex, Pro, or Elite license.

- You must be logged on with the EDIUS XS role assigned.
- The client PC on which you are launching EDIUS must not be licensed for EDIUS Workgroup. This is an EDIUS license, installed on the client PC and managed by EDIUS license management. It is not a Sabretooth license.

The EDIUS for GV STRATUS application can launch and operate as follows:

- A high resolution editor, identified as EDIUS Workgroup, which can operate in STRATUS mode or in standalone mode. In STRATUS mode, the EDIUS for GV STRATUS application can access GV STRATUS high resolution assets. In standalone mode, the EDIUS for GV STRATUS application cannot access GV STRATUS high resolution assets.
- A low resolution proxy editor, identified as EDIUS XS, which operates in a single mode that must access GV STRATUS proxy assets.

Both of these applications can launch from the **EDIUS** icon .

The same EDIUS software installation package is used to install both types of EDIUS for GV STRATUS applications, so there can be confusion about which application is being launched. This is especially true if licenses for both applications apply to the same client PC, which is not supported. When you launch an EDIUS for GV STRATUS application, it detects the licensing on the client PC. If licensed for EDIUS Workgroup, you are prompted to logon and the EDIUS Workgroup application always launches. You cannot launch EDIUS XS. If not licensed for EDIUS Workgroup you are prompted to logon. Based on your logon, the application checks licensing and roles on the GV STRATUS Core server. If the license includes EDIUS XS and your logon account is assigned the EDIUS XS role, EDIUS XS launches. Therefore, if you have ever licensed the client PC for EDIUS Workgroup, do not use that PC for EDIUS XS.

Troubleshooting tips

Symptom	Solution
Problem accessing the GV STRATUS system.	Check the Status window. Check that the Core Services server is running. Check that the server is connected to the client network. Check that connections are secure.
Problem opening proxy assets	<ol style="list-style-type: none">1. Verify that proxy can be created by K2 Summit record channels and the GV STRATUS server that creates proxy assets.2. Verify the internal system account has read/write access to the proxy share and the user playing the asset has read access.3. Verify that you can access the proxy via the Proxy HTTP server.
Core Services server is accessible using IP address but not server name	Host tables or DNS entries must be set to map name to IP address. This should be coordinated with facility IT personnel.

Symptom	Solution
Problem accessing the GV STRATUS application or its features	Check that the account used to log into the GV STRATUS workstation has licenses and roles assigned.
GV STRATUS Control Panel application does not provide correct information in drop-down lists.	Check the SiteConfig log and make sure a "saved system description to control panel service host" appears every few minutes. If not, make sure the correct control panel service host is configured in SiteConfig.
No video appears when you click the Live Streaming Video button.	Check networking and connection to the K2 Summit/SAN system V:\ drive. To test, navigate on the K2 Summit/SAN system to the V:\live streaming directory. Open the corresponding *.sdp file in Quicktime and verify that video is available.
Problem with Live Streaming when the K2 Summit system's IP address is changed.	On the K2 Summit system navigate to <i>V:\live streaming</i> and use Notepad or a similar text editor to open a *.sdp file. Check the first IP address listed in the file, on the <i>o=</i> line. If it is not the K2 Summit system's Control Connection IP address, delete the *.sdp files in the directory and restart the K2 Summit system.
A device running code that communicates with the GV STRATUS SDK cannot access the GV STRATUS Core server. This occurs if the device has a network proxy server that disallows local connections.	Disable the network proxy server.
The GV STRATUS application takes a long time to open or does not open.	This can happen when the application attempts to load the last used workspace when it opens and there is a problem with that workspace. To open with the default workspace, hold down the left-hand Alt key while the application opens. To open with all user settings disabled, open the application from the command prompt using the failsafe switch, as in <code>STRATUS /failsafe</code> .
A "Windows could not start the GV STRATUS ... service" Error 1069 message appears.	This can happen when a password is changed using an improper procedure. Refer to related topics in this Topic Library.

Related Topics

[Changing passwords](#) on page 587

Test proxy media generation

This test is valid for standalone K2 Summit systems. You can check the proxy media that the K2 Summit system generates. This can be helpful in troubleshooting situations where you need to verify that the proxy is available to other applications, such as the GV STRATUS application.

Use this procedure for test purposes only. Accessing proxy media as explained in this procedure is not supported for operational use.

1. Verify that in K2 AppCenter Configuration Manager, a K2 Summit system channel is enabled for live network streaming and for recording proxy files.
2. Verify that there is video available at the channel's SDI input.
3. Verify proxy live network streaming as follows:
 - a) On the K2 Summit system, navigate to `C:\live stream`.
 - b) Identify the file that corresponds to the channel enabled for live network streaming.
The file name is `hostname_Cx,sdp`, where *x* is the channel number.
 - c) Double-click the file that corresponds to the channel enabled for live network streaming.
QuickTime Player opens.
 - d) View and verify the proxy video stream.
4. Verify recording proxy files as follows:
 - a) Navigate to the proxy location.
On a K2 Summit system that has not been configured to write proxy elsewhere, the location is `V:\proxy`. If configured by applications such as GV STRATUS to write proxy elsewhere, navigate to the configured location.
 - b) While viewing the proxy location, start recording a new clip on the K2 Summit channel enabled for recording proxy files.
The K2 Summit system creates a new folder at the proxy location. The folder is named with a long GUID.
 - c) Stop the recording on the K2 Summit channel.
 - d) In the new folder, double-click the `proxy.mp4` file.
QuickTime Player opens.
 - e) View and verify the proxy file.

About application status

You can view the status of the application as follows:

Status Bar


Indicates whether the application is ready or not, the user account currently logged on, and license information.

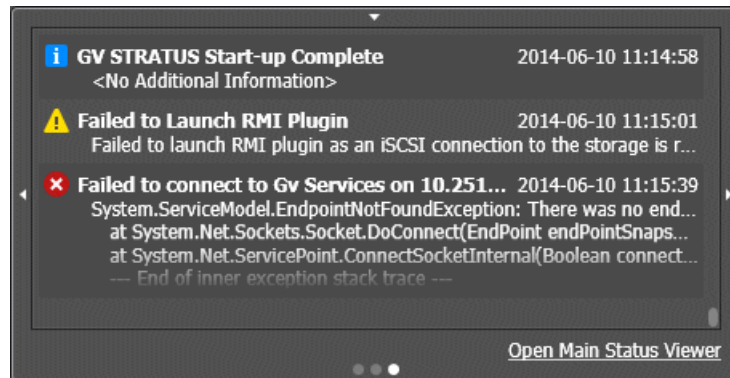
Status Indicator

Displays an alert when a problem occurs that requires your attention.

Notification pop-up panel

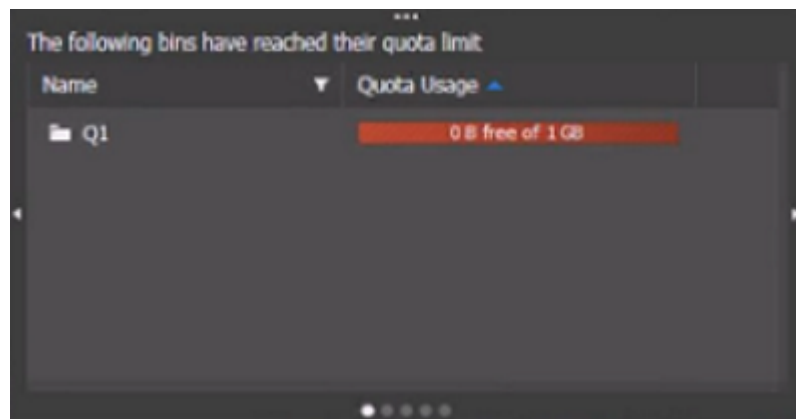
Provides a condensed view of status.

To open the Notification pop-up panel to the Status page, in the lower-right GV STRATUS application Status bar, click the Status indicator. The Status indicator can display the **Error** message icon. 



To open the Status Viewer panel for an expanded view, click **Open Main Status Viewer**.

To view other notifications, click the arrow on the right of the pane. You can view security notification, background tasks, jobs in progress, system status, and bin quota limit, if reached.



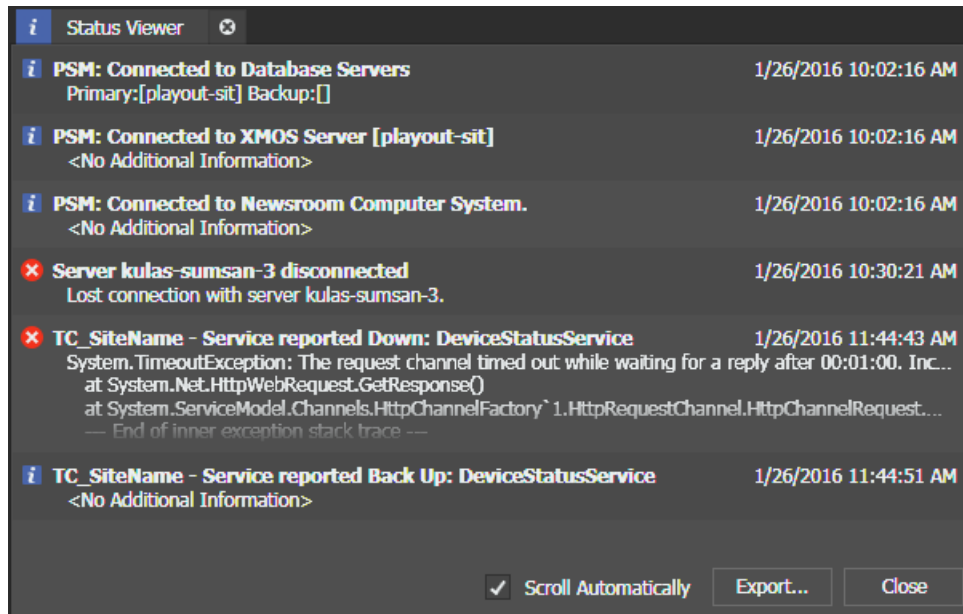
To close the Notification pop-up panel, click the down-arrow on the top edge of the panel or click the Status indicator again.

Status Viewer panel




Allows you to view the status of the application, its components, workspace layout, and any services associated with the application.

To open the Status Viewer panel, do one of the following:

- Click the Status indicator then click **Open Main Status Viewer**.
- Click **Help | Status**.



The Status Viewer panel gives a complete view of information. You can quickly evaluate the system status information by scanning the display icons:

-  **Information:** Indicates an information message.
-  **Warning:** Indicates a warning message.
-  **Error:** Indicates an error message.

By default, the **Scroll Automatically** box is checked.

Viewing and copying version and status information

You can view version information and status information. If necessary, you can also copy the information and send it to Grass Valley support.

- To access version information do the following:
 - a) Click **Help | About**.
The About dialog box opens.
 - b) To copy the detailed system information, click the **Copy Details** button.
 - c) When finished viewing or copying the information, click **Close**.
The dialog box closes.
 - d) Paste the copied information into a text file or email, and send it to Grass Valley support.

- To access status information do the following:
 - a) Click **Help | Status**.
The Status Viewer panel opens.
 - b) To copy status information, double-click a status message.
A message box opens.
 - c) Highlight the message information and press **Ctrl + C**.
 - d) Paste the copied information into a text file or email, and send it to Grass Valley support.

Commissioning checklist

Commissioning checklist

Use the following lists to guide the overall task flow of commissioning the system. This commissioning process assumes you received your system completely set up and configured from Grass Valley.

Test Grass Valley commissioning

1. Rack, cable, and power on, using the *K2 and GV STRATUS System Cabling Guide* that shipped with the system.
2. On a K2 Summit system, open K2 AppCenter and test basic record and play operations.
3. From the control point PC, ping all K2 and GV STRATUS devices to test network connectivity.
If the system has no control point PC, do this test from the GV STRATUS server.
4. In the GV STRATUS application, do the following:
 - a) In the Navigator, verify access to K2 Summit system bins.
 - b) Create a Channel Panel and test record/play operations.
 - c) In the Navigator, select assets on the K2 Summit system.
The assets appear in the Asset List.
 - d) Double-click an asset in the Asset List.
The asset opens in the Inspector.
 - e) In the Inspector, verify that the asset has a proxy association.
5. In the Asset List, right-click the high-resolution asset and select **Regenerate Proxy**.
6. Verify the following behavior:
 - a) In the **Associations** tab of the Inspector, the proxy association is momentarily not visible.
This occurs as the GV STRATUS system deletes the proxy asset.
 - b) In the **Associations** tab of the Inspector, the proxy association shows as recording.
This occurs due to the GV Render Engine is in the process of regenerating the proxy asset.
 - c) In the **Associations** tab of the Inspector, the proxy association is visible again.
This occurs as a result of the GV Render Engine has finished regenerating the proxy asset.

If tests succeed, the system is operating correctly, as it did when it left Grass Valley.

Commission customer site

1. Configure the GV STRATUS server on the corporate LAN.
2. Assign GV STRATUS licenses/operations to groups/users.
3. Verify system requirements on GV STRATUS client PCs
4. If any high-resolution GV STRATUS client PCs, make cable connections to control and media (iSCSI) networks.
5. Install/configure SiteConfig support on GV STRATUS client PCs
6. On the control point PC, open SiteConfig and do the following:
 - a) Add corporate LAN.
 - b) Add GV STRATUS client PCs.
 - c) Install GV STRATUS software on GV STRATUS client PCs.
7. If any high-resolution GV STRATUS client PCs, open K2Config and configure the PCs as iSCSI clients on the K2 SAN.
8. On one of the customer-supplied GV STRATUS client PCs, open the GV STRATUS application and do the following:
 - a) In the Navigator, verify access to K2 Summit system bins.
 - b) Create a Channel Panel and test record/play operations.
 - c) In the Navigator, select assets on the K2 Summit system.

The assets appear in the Asset List.
 - d) Double-click an asset in the Asset List.

The asset opens in the Inspector.
 - e) In the Inspector, verify that the asset has a proxy association.
9. In the Asset List, right-click the high-resolution asset and select **Regenerate Proxy**.
10. Verify the following behavior:
 - a) In the **Associations** tab of the Inspector, the proxy association is momentarily not visible.

This occurs as the GV STRATUS system deletes the proxy asset.
 - b) In the **Associations** tab of the Inspector, the proxy association shows as recording.

This occurs due to the GV Render Engine is in the process of regenerating the proxy asset.
 - c) In the **Associations** tab of the Inspector, the proxy association is visible again.

This occurs as a result of the GV Render Engine has finished regenerating the proxy asset.

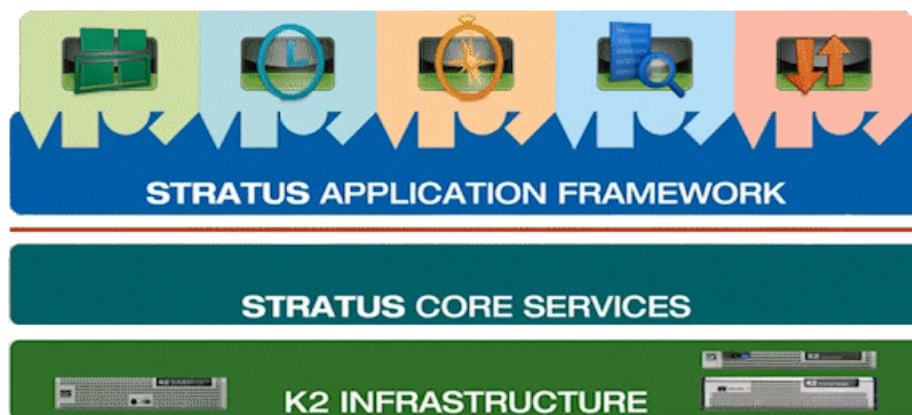
GV STRATUS Operation

Overview of the GV STRATUS application

About the GV STRATUS product

The GV STRATUS® Media Workflow Application Framework is the next generation of Grass Valley application software, designed for the entertainment, on-air operations, and news markets. GV STRATUS includes a powerful asset management solution and all the tools to help you produce your content from all ingests needs, preparation, editing, review and approval, playout and of course, archiving. GV STRATUS uses a common Service Oriented Architecture, to provide a modular, high performance, and highly configurable user experience and does away with the old concept of separate, individual tools which can be hard to configure, and even harder to use. GV STRATUS is built with modules that are added as services to assemble your workspace into an environment tailored specifically to your needs, in an almost infinite number of combinations. This means you have a virtually unlimited and fully integrated tool-set at your command. GV STRATUS is format and resolution independent. Proxies are generated on the fly for any video coming into the system and are fully available to all the users within seconds.

The GV STRATUS product includes the GV STRATUS Application Framework and the GV STRATUS Core Services. These layers provide you with access to the K2 Infrastructure to support your workflow requirements.



The GV STRATUS Application Framework includes the following:

- The GV STRATUS application — This is the primary application for using GV STRATUS tools for your media workflow. It is documented in this Topic Library.
- The GV STRATUS Control Panel application — The GV STRATUS application that provides central configuration of the software components of the GV STRATUS system. It is documented in this Topic Library.
- The GV Event Viewer — This is the application that displays detailed information about significant events on your GV STRATUS server, which is very useful when troubleshooting problems and errors. It is documented in this Topic Library.

These applications run on standard networked PCs.

The GV STRATUS Core Services include software components that run as services on one or more GV STRATUS Core servers. They are documented in this Topic Library.

The K2 Infrastructure includes the devices and software that make up a K2 Summit system at version 8.0 and higher. Depending on the system necessary to support your workflow requirements, this can include K2 clients, servers, RAID storage devices, and network switches. They are documented in this Topic Library and the "Installing and Servicing the K2 SAN" section of the K2 Topic Library.

Logging on

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. From the Windows desktop, do one of the following:


- Open the **GV STRATUS** icon  shortcut.
- Click **Start | All Programs | Grass Valley** and click the **STRATUS** icon. 

A Log On dialog box opens.

2. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

If you have successfully logged on before, select your user name from the drop-down list.

3. Enter your password.
4. Verify that the application is correctly referencing the Control Panel Services Host as follows:
 - a) If not already showing, click the **Options** button  to show settings.
 - b) Verify or enter the hostname (do not enter the IP address) of the GV STRATUS server with the SiteConfig role of GV STRATUS Control Panel Service. This is the Control Panel Services Host. In most systems this is the main GV STRATUS Core server.

If you have successfully logged on before, your hostname is automatically populated. You can select a hostname from the drop-down list if you have previously logged on to multiple hosts in your operation.

5. Click **Log On**.

The application opens.

GV STRATUS features are enabled according to the roles associated with your log on credentials.

When you log on to the application, the settings you make on one PC are available on other PCs when using the same user credentials, including the following:

- Settings from the User Preferences dialog box
- Workspaces




- Channel Panel configurations and Salvos
- Searches

About the GV STRATUS application

The GV STRATUS application allows you to manage digital video production workflows. The GV STRATUS application runs on a networked Windows operating system computer.



The GV STRATUS application provides the following panels for use in most workflows:

-  **Navigator:** The panel that contains the tree-view.
-  **Asset List:** The panel that displays the list for the item currently selected in the Navigator panel or the search results.
-  **Inspector:** The panel that displays details of the asset currently loaded.

The Status bar reports application status and displays status indicators.

In addition, the GV STRATUS application provides tools designed for specific workflows. You can arrange the panels and tools of the GV STRATUS application to create a customized workspace.

Tools and devices within the GV STRATUS application are available according to assigned roles and licensing. If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Related Topics

[About application status](#) on page 758

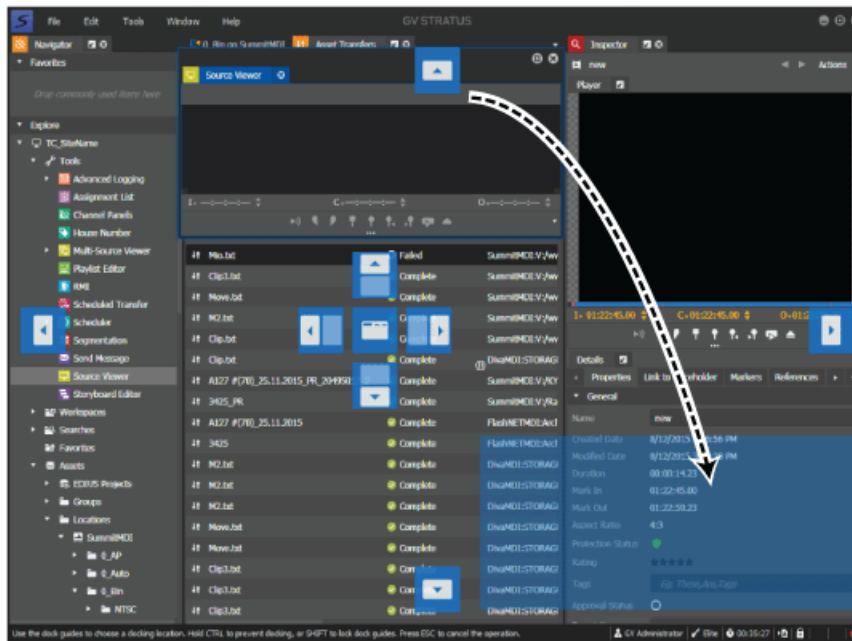
[Customizing the application workspace](#) on page 1117

[Arranging control tray buttons](#) on page 766

[About Newsroom Basic](#) on page 394

About customizing the application workspace

You can rearrange the panels of the application to best suit your workflow needs.



Features for customizing the workspace are as follows:


- Undock panels and move them to another location within the application window, within another panel, or to their own location on the Windows desktop.
- Hide panels so that they show only as a tab.
- Close panels.
- Resize panels.
- Save an arrangement of docked and undocked panels as a uniquely named workspace.
- Load a workspace to automatically arrange panels.

Related Topics

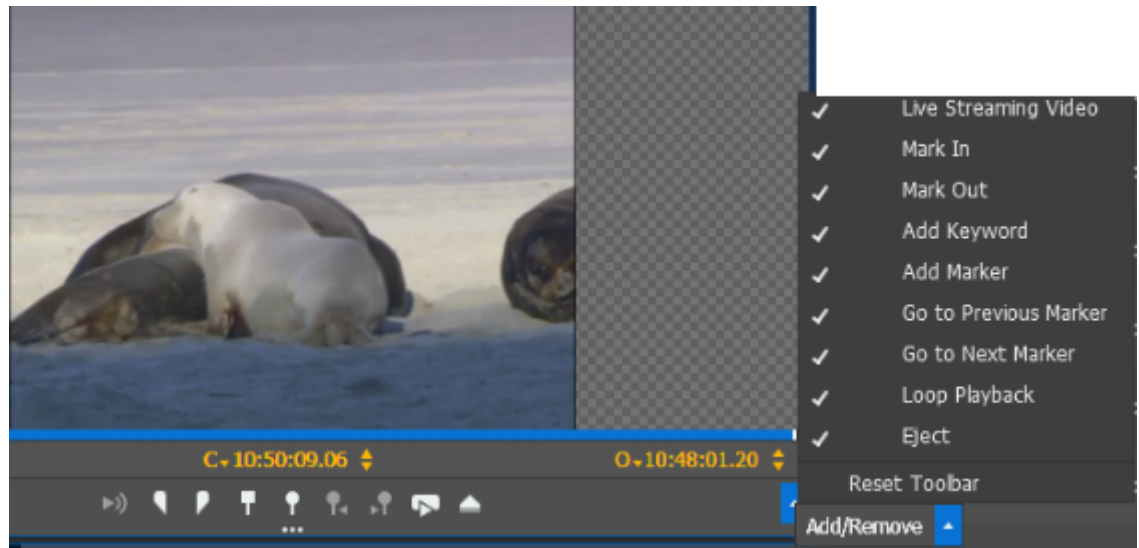
[Customizing the application workspace](#) on page 1117

Arranging control tray buttons

Viewers and players have a control tray that provides access to buttons. As you resize a panel smaller and the buttons do not all fit in the control tray, the buttons overflow onto a drop-down menu. You can configure buttons to show and to overflow as the panel is resized.

1. To show/hide the control tray, click the **Show/Hide Control Tray** button. 

- Click the drop-down arrow on the far right of the control tray.



The overflow menu displays hidden buttons.

- Click **Add/Remove**.
A menu of buttons opens.
- Select the buttons to display.
- If desired, select **Reset Toolbar** to return the buttons to their default display.

Your button configuration is saved with your GV STRATUS user preferences and propagated as follows:

- When you select buttons to display in a Channel Panel, all channels of the same type (player/recorder or recorder-only) and view mode size in that Channel Panel display your selection of buttons. Similarly, all gangs of the same type (containing at least one player/recorder or all recorder-only) display your selection of buttons.
- When you select buttons to display in a Playlist Editor, any channel in the Playlist Editor displays your selection of buttons.

Viewing the application window in full screen

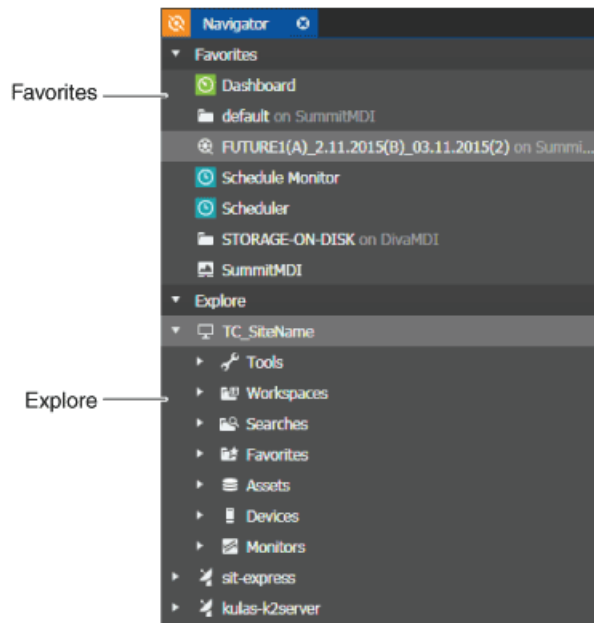
The following applies to the GV STRATUS application and the GV STRATUS Control Panel application.

Click **Window | Full Screen**. (⌘ Ctrl + Alt + 0)

The application window expands and displays without the Windows titlebar.

The Navigator panel












The Navigator panel functions as the starting point for workflows using the GV STRATUS application. For most of the items in the Navigator, if you select the item it is displayed in the active Asset List panel.



The Navigator panel contains the following sections:

- **Favorites** — A list of shortcuts to GV STRATUS items.
- **Explore** — A tree-based hierarchy with which you can browse your system.

From the Explore section, you can access the following:

-  **Tools:** Expands to display the tools that support the various workflows available in the STRATUS application.
-  **Workspaces:** Expands to display default and saved workspaces.
-  **Searches:** Expands to display searches that can be reused and shared.
-  **Favorites:** Expands to display a list of favorites.
-  **Assets:** Expands to display a view of groups and assets based on the information available in the STRATUS database. Any assets can be grouped together, regardless of their actual location in K2 system storage.
-  **Devices:** Expands to display the devices that the STRATUS application accesses or controls.
-  **Monitors:** Expands to display tools for monitoring transfers and web pages. The **Jobs** icon  and the **Dashboard** icon  appear here.
-  **Access Restricted:** Indicates the asset or bin has restricted access.
-  **Offline:** Indicates the K2 Summit system is offline. The red "X" overlay disappears automatically if the K2 Summit is back online.

The Navigator panel displays all items under the node for your local site.

If you have remote sites configured in your system, the Navigator panel displays nodes for those sites. Only the **Assets** node is displayed under remote sites. Asset indicators identify assets on remote sites.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

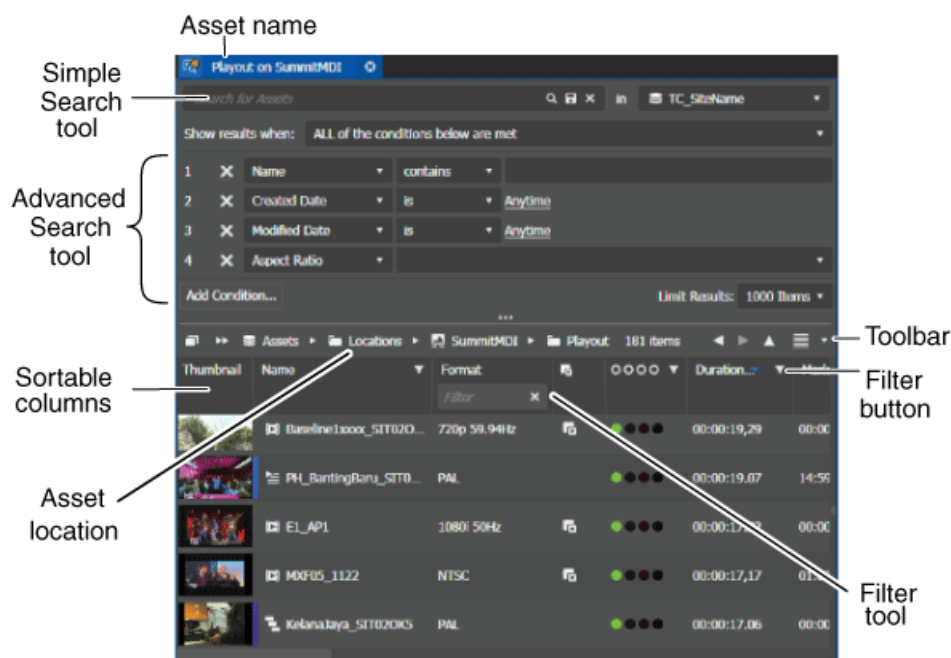
Related Topics

[About the GV STRATUS Assets view](#) on page 349

[Asset indicators](#) on page 783


The Asset List panel

The Asset List panel displays the contents of the item selected in the Navigator panel, such as a tool, bin, or search. Each time you select an item in the Navigator panel, an updated view of its contents is displayed. The Asset List panel typically appears on the middle of the GV STRATUS application window.



The Asset List panel features are as follows:

- **Asset name** — The name of the item that has its contents displayed in the Asset List panel. The name is displayed in the title bar and in the toolbar.
- **Simple Search tool** — Searches on asset names, asset Descriptions, asset Tags, asset Comments, and custom Text fields.
- **Advanced Search tool** — Searches on asset metadata and other properties. The Advanced Search tool opens when you click the **Advanced Search Toggle** button. ...
- **Sortable columns** — Sorts the list when you click the column head.
- **Asset location** — Displays the location of the asset, relative to the Navigator hierarchy, when you hover over the asset name in the toolbar.
- **Toolbar** — Provides buttons for navigating and displaying asset lists.

- **Filter tool** — Filters the list based on criteria you enter. The Filter tool opens when you click the **Enable Filter** button. 

You can open multiple Asset List panels and compare them side by side. Only one Asset List panel is active at a time. The active panel dynamically updates when you select an item in the Navigator panel. You can click on a panel to make it the active Asset List panel.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.









Related Topics

[About searches](#) on page 794

[Customizing the display of list items](#) on page 787

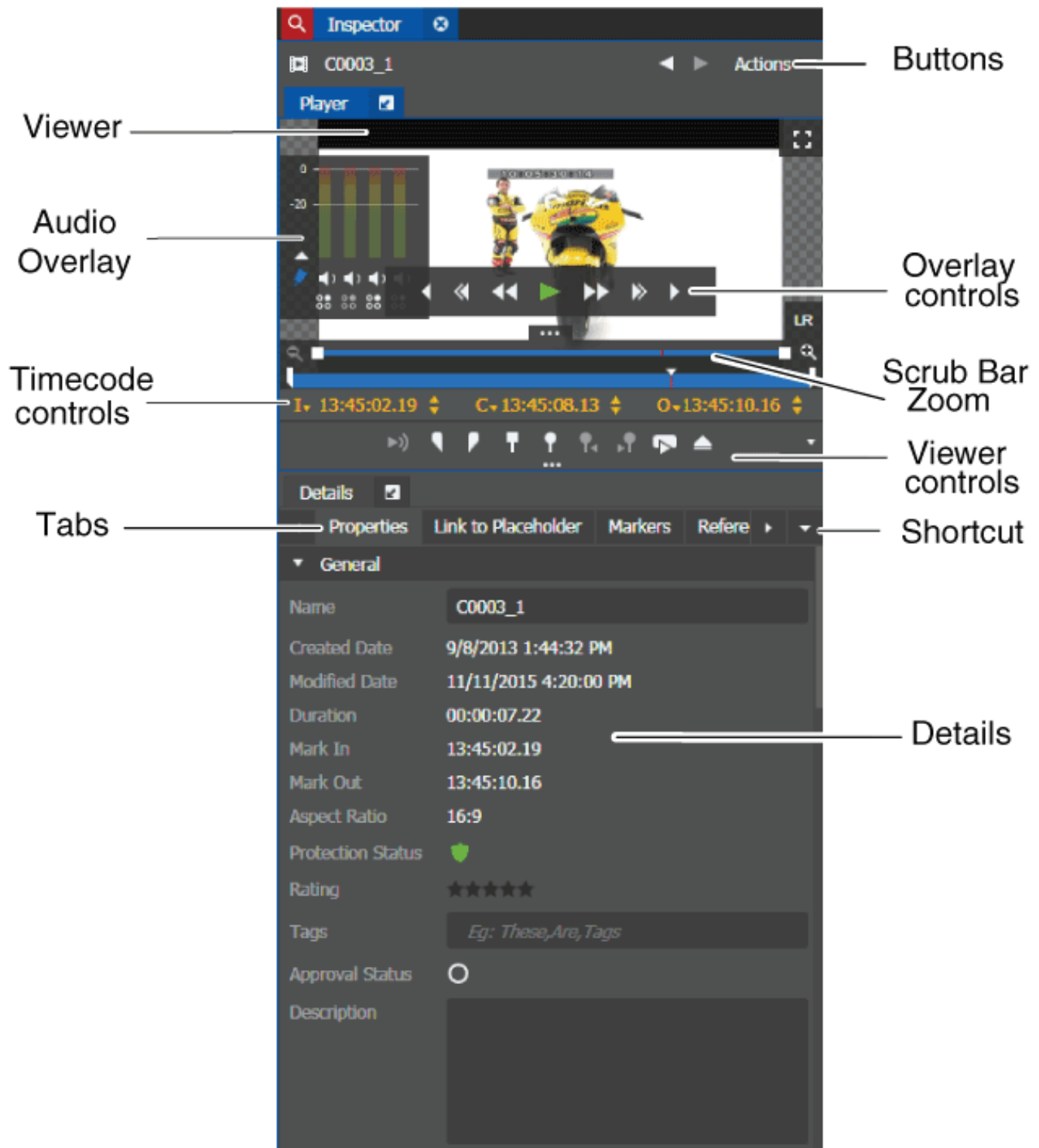
Asset List panel buttons

These buttons located on the Asset List panel toolbar let you perform various functions:

-  **Start Search:** Initiates a search for the specified items.
-  **Save Search:** Saves this search for future use.
-  **Delete:** Deletes the selected item or items. Disabled if delete rights denied in GV STRATUS Control Panel.
-  **Advanced Search Toggle:** Toggles display of the advanced search parameters for the current provider
-  **Navigate Asset Lists:** Goes to previous, to next, and up.
-  **Open New Panel:** Opens a new panel.
-  **View Mode:** Controls the display and size of the items in a list or panel.
-  **Enable Filter:** Enables the list to be filtered by the values in the column.

The Inspector panel

The Inspector panel allows you to mark up, manage, and view detailed information for an asset. The Inspector panel typically appears on the right side of the GV STRATUS application window.



The Inspector panel features are as follows:

- **Viewer** — Allows you to view and mark up an asset. You can show and hide viewer controls to accommodate resizing the Inspector panel.
- **Audio Overlay** — Allows you to manage audio of the asset. You can mute or isolate specific audio channels on the audio overlay.
- **Buttons** — Provides a menu of actions for managing the asset and navigation buttons to view previous/next objects.
- **Overlay Controls** — Transport controls navigate through the asset. Visible when you hover the mouse pointer over the asset. Movable with drag-and-drop. Not all controls are displayed when the panel is not fully expanded.
- **Viewer controls** — Allows you to mark up the asset.
- **Scrub Bar Zoom** — Allows you to zoom on the scrub bar.
- **Timecode Controls** — Allows you to select the mark in/out and other timecode types to display. Also lets you navigate through the clip to a specific timecode. If desired, the timecode controls can also be resized in the panel.
- **Details** — Provides tabs with sections for viewing properties, metadata, placeholders, markers, and relationships. You can create custom metadata sections in GV STRATUS Control Panel to organize settings on tabs.
- **Tabs** — Allows you to view asset details in separate sections. On some tabs you can make changes, such as modifying metadata, linking assets to placeholders, and setting recurring events. Standard Asset List features, such as sortable columns, are available on tabs with a list display. You can click the shortcut to display a drop-down list of tabs, and quickly select a tab display.

The features in the Inspector panel can change dynamically, depending on the tool that launches the Inspector panel, the roles assigned, and the type of asset that is displayed. The Viewer controls are the same as those in the Source Viewer.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Related Topics

[Viewer buttons](#) on page 933

[Identify high and low resolution while viewing](#) on page 802

[Using the scrub bar zoom to navigate](#) on page 803

[Using the Audio Overlay](#) on page 934


[Identifying and selecting the timecode type](#) on page 888


[Toggling between camera angles in Inspector and Channel Panel](#) on page 806


About GV STRATUS tools


The GV STRATUS application contains the following tools. You can find the tools in the Navigator panel under the **Tools** node.


 **Advanced Logging**: The tool that creates and customizes logging of assets.

 **Assignment List:** The tool that creates placeholders for clips and coordinates with rundown stories on the Newsroom Computer System and with GV STRATUS Rundown.


 **Channel Panel :** The tool that includes channels and channel gangs for controlling one or more K2 channels.


 **House Number:** The panel that populates the house number list and links assets to house numbers from the traffic system.


 **Playlist Editor:** The tool that creates and modifies playlists. This tool uses a K2 channel.


 **RMI:** RMI is the acronym for Removable Media Interface. It is the tool that populates and ingests files from multiple removable media devices such as P2 and XDCAM. The RMI tool requires a GV STRATUS client with access to high-resolution assets.


 **Scheduled Transfer:** The tool that schedules events to be transferred into a repository.

 **Scheduler:** The tool that schedules events to be recorded.

 **Segmentation Tool:** The tool that creates segments from assets.

 **Send Message:** The tool that sends and receives messages and attachments between users logged on to GV STRATUS applications.

 **Source Viewer:** The tool that plays assets and provides controls for adding markers, keywords, and other features.

 **Storyboard Editor:** The tool that creates and modifies sequences. This tool does not use a K2 channel.

Related Topics

[The Advanced Logging tool](#) on page 1023

[The Assignment List tool](#) on page 1049

[The Channel Panel tool](#) on page 866

[The House Number panel](#) on page 1112

[The RMI tool](#) on page 854

[The Playlist Editor tool](#) on page 891

[The Scheduler tool](#) on page 822

[The Segmentation tool](#) on page 1102

[The Source Viewer](#) on page 932

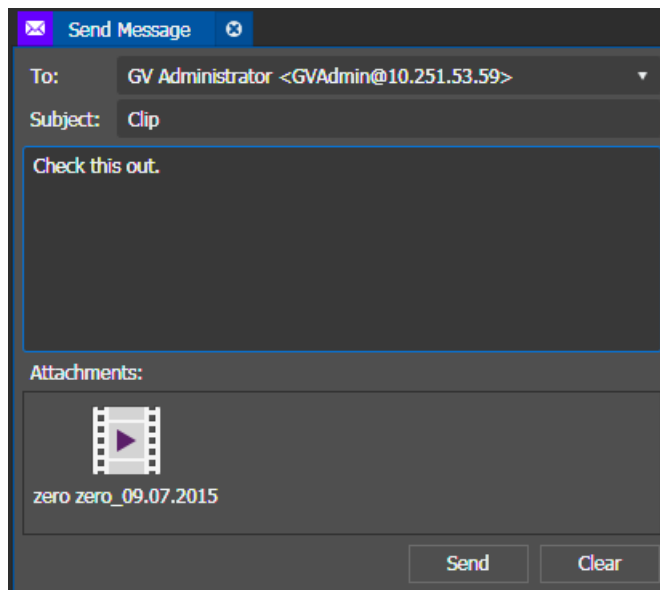
[The Storyboard Editor tool](#) on page 931

[The Send Message tool](#) on page 341

[The Director tool](#)

The Send Message tool

The Send Message tool allows you to send and receive messages with attachments. If you are logged on to a GV STRATUS application you can send a message to another person that is currently logged on to a GV STRATUS application and on the same network subnet. The Send Message tool appears in the GV STRATUS application and in the GV STRATUS Control Panel application when you launch it from the Navigator panel.



Send Message tool features are as follows:

- To field — Specifies the GV STRATUS user to whom the message is sent. Select a user from the drop-down list.
- Subject field — Contains the title of the message.
- Message field — Contains the message.
- Attachments field — Provides a field to which you drag attachments.
- Send button — Sends the message.
- Clear button — Clears all fields in the Send Message panel.

You can attach the following:

- Clips
- Playlists
- Saved searches
- Workspaces
- Bins
- Logging buttons
- Button Panels
- Advanced Logging Tool composite panel
- Tools
- Devices
- Locations
- Monitors
- Channel Panels
- Drives

When you send an attachment, you are actually sending a link to the attachment, rather than the attachment itself.

When you receive a message, a Message dialog box opens and displays the message. If the message has an attachment, you can do the following:

- Open the attachment by double-clicking it.
- Create a copy of the attachment in the Navigator panel or drag it to other panels in the GV STRATUS application. Consider the size of the attachment before creating a copy.

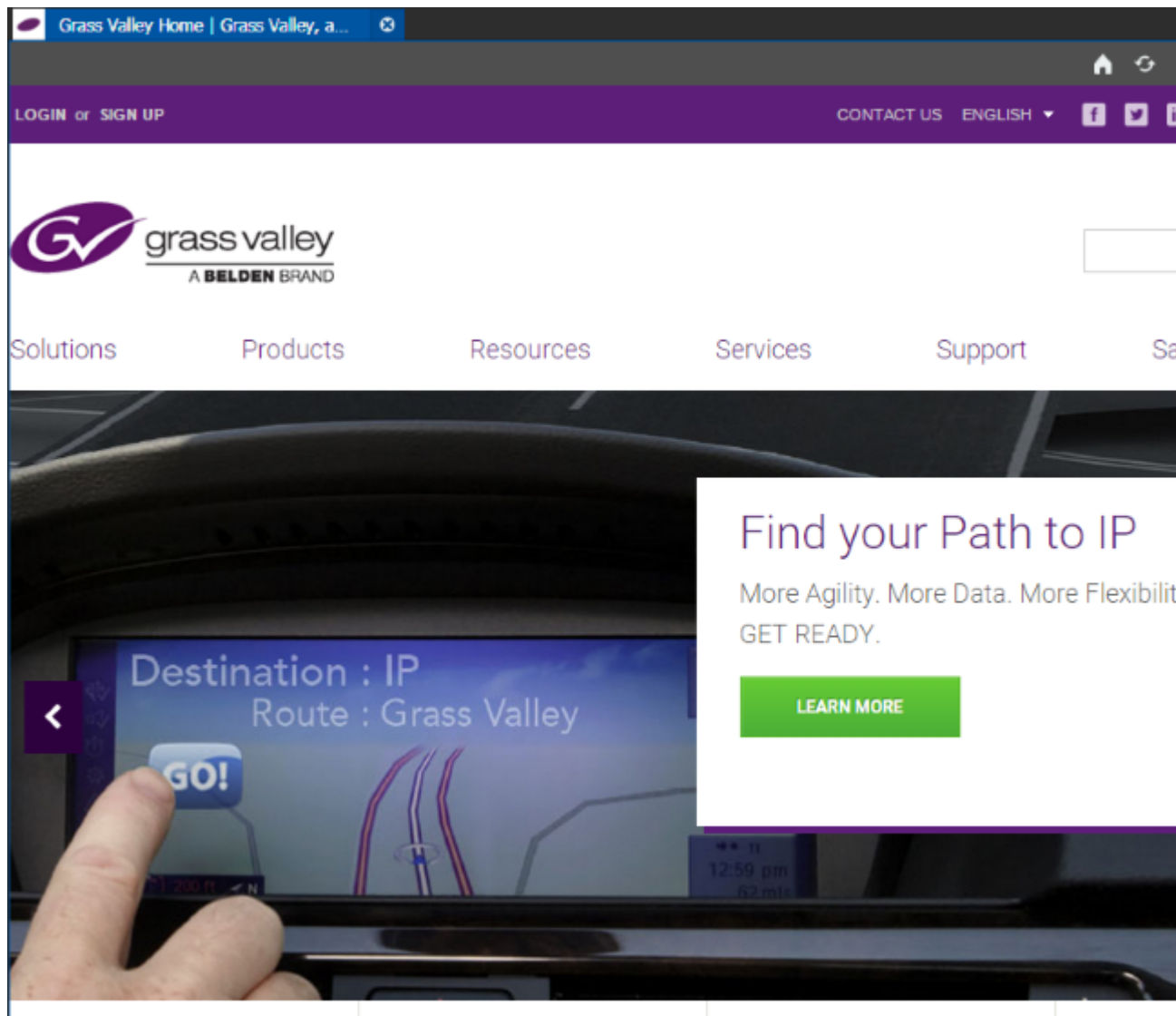
The Send Message tool is more similar to Instant Messaging than it is to E-mail, as there is no Outbox or Inbox functionality to store messages. If a person is not logged on to a GV STRATUS application you can not send them a message. Likewise, if you are not logged on to a GV STRATUS application you can not receive a message.

The Web Monitor

The Web Monitor allows you to view a web page in a GV STRATUS application panel. You configure the web page address in GV STRATUS Control Panel. You can configure multiple web pages.

The Web Monitor displays the name of each configured web page in the GV STRATUS application Navigator panel, from which you can launch each web page as a separate Web Monitor panel. When you hover your cursor near the side borders of the Web Monitor panel, forward and back browse buttons appear.

You can also drag and drop any web page under the Web Monitor node into the **Favorites** panel to easily access a frequently used web page in your operation.



The Dashboard tool

The Dashboard tool allows you to view information about the current activity on the GV STRATUS system.

You can launch the Dashboard tool in the GV STRATUS application and in the GV STRATUS Control Panel from the Navigator panel under the Monitors node.


You can also drag and drop the Dashboard tool into the **Favorites** panel to easily access your Dashboard status.

The Storage tab reports storage capacity available on K2 devices and on the local GV STRATUS PC. You can right-click on the **Used** report to explore storage levels further.

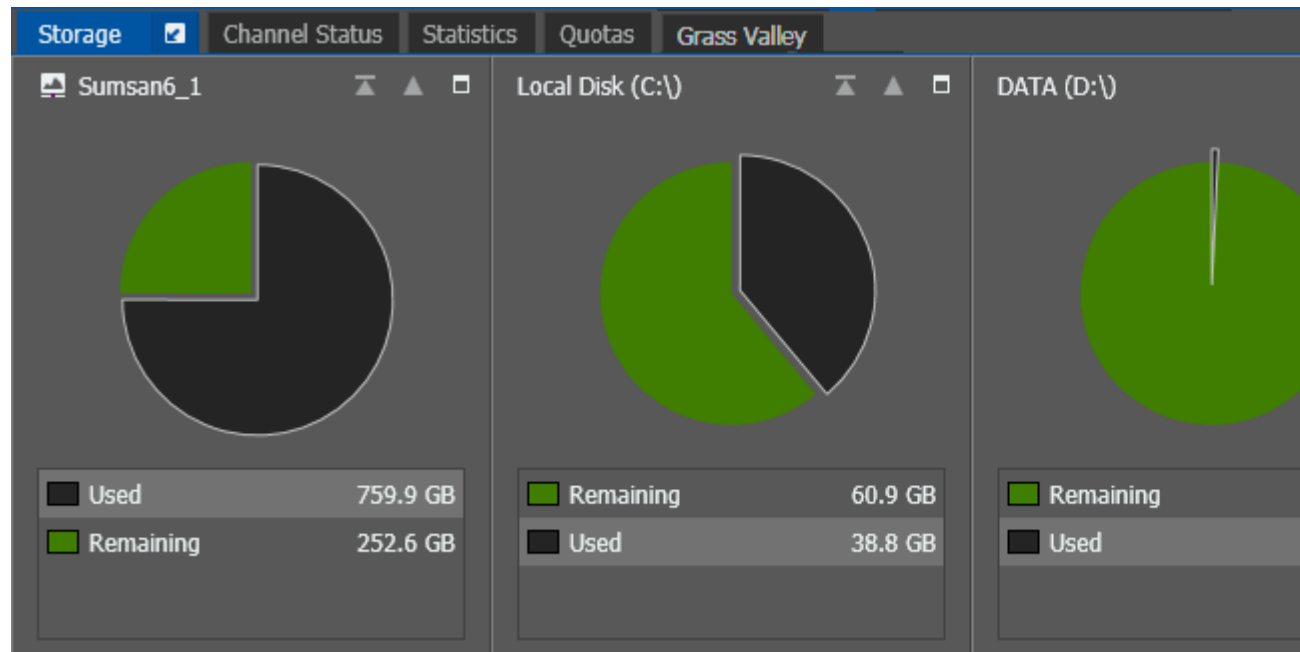
The Channel Status tab displays channel state and usage information. You can customize the display of list items, similar to Asset List items, with features such as sort, filter, and add/remove columns.

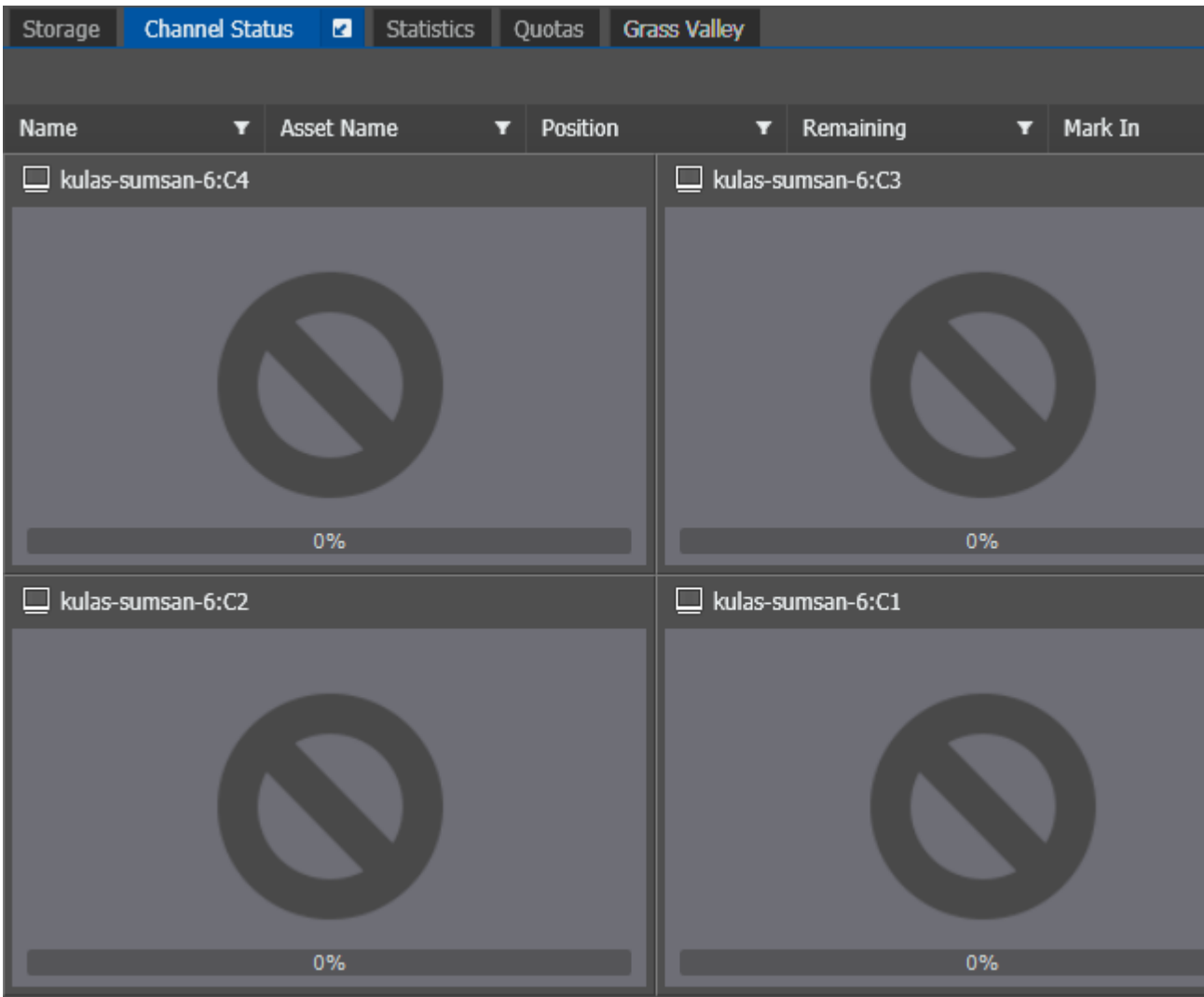
When a channel has an asset loaded, the asset details display in an expandable, separate line below the channel. You can also view the status of each channel whether it's idle, recording, or cueing assets.

The Statistics tab displays data in graphical form for change notices, asset count, user sessions, system sessions, and top 5 of assets per bin in the GV STRATUS system. Those statistics can also be viewed via an internet browser at: <http://<coreservername>/webapps/statistics/>

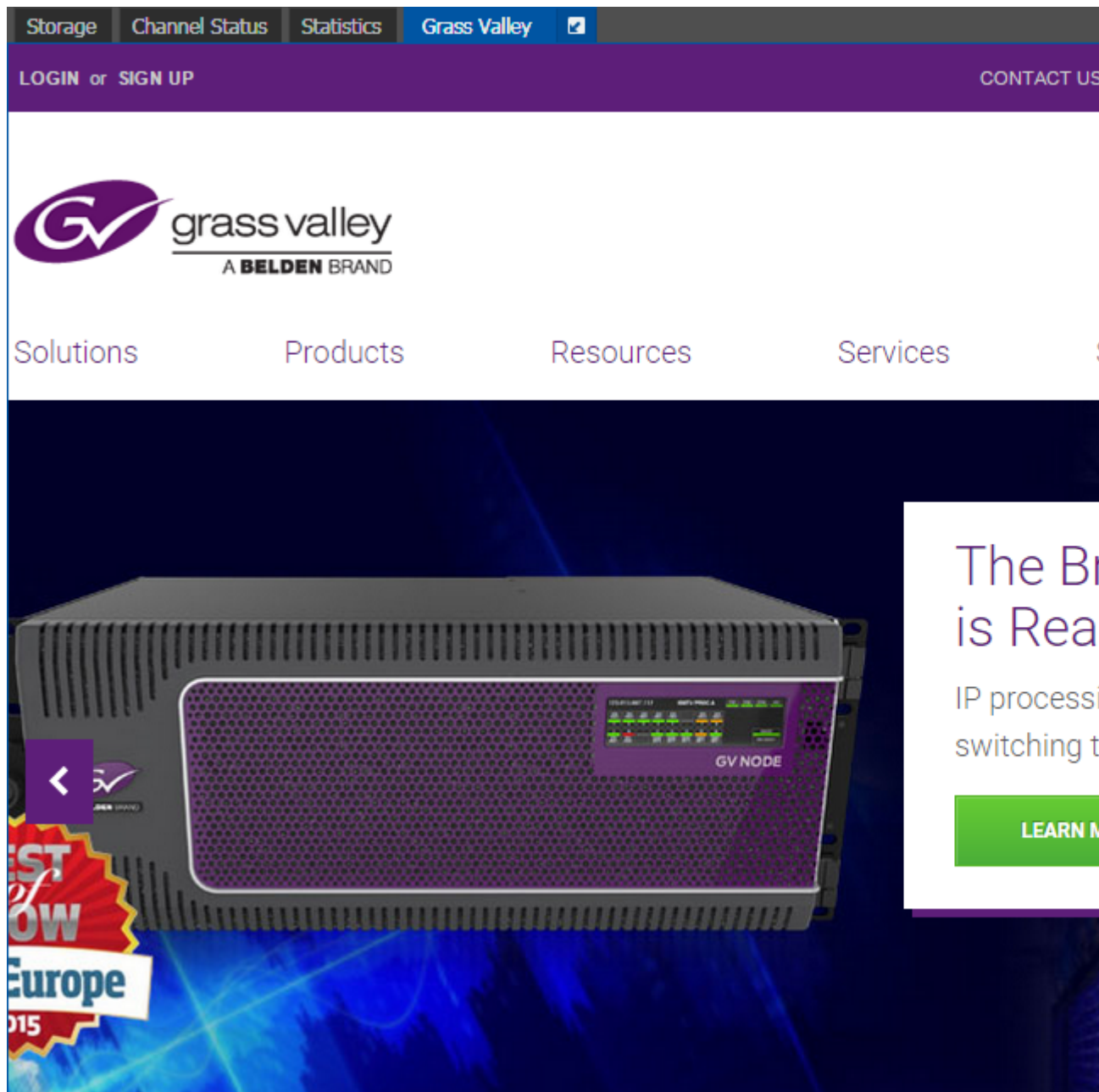
The Quotas tab displays the amount of disk space that the GV STRATUS system reserved for specific bins and the current quota usage. The quota of each bin is configurable via the StorNext Administration application on K2 Summits. The quota display turns orange when the disk space is less than 100MB of the limit, and turns red when it reaches the limit. The Quota Status  icon displays on the status bar when the quota limit is reached. You can click the icon to launch the status viewer panel and view the quota limit.

If a webpage is configured in GV STRATUS Control Panel for display in the Dashboard tool, you can see the webpage display on the next tab.










Related Topics

[Web Monitor Add/Modify settings](#) on page 313


Previewing a live streaming video

You can preview live video input of K2 Summit channels.


1. Click the **Live Streaming Video** button  on a Channel Panel, Playlist Editor, Source Viewer, or Scheduler tool.

The live streaming video is displayed as follows:

- If a Playlist Editor or Channel Panel, the video is displayed in the K2 channel.
- If a Source Viewer or Scheduler tool, the video is displayed in Source Viewer.

2. Click the **Live Streaming Audio** button  to isolate the selected audio for a live video stream.

When enabled, audio from all other live video streams is automatically muted.

The **Live Streaming Audio** button  is disabled by default when the channel first opens.

The audio can only be enabled one channel at a time.


Related Topics

[Using the Audio Overlay](#) on page 934

Managing assets

Using the Explore section

The Explore section of the Navigator panel lets you browse the various items in the application.

1. In the Navigator panel, expand the Explore section by clicking on the **Show/Hide** button. 
- The Explore section expands.

2. Select the node that you want to explore.

The Asset List panel displays the contents of the selected node.

About the GV STRATUS Assets view

In the Navigator panel, the Assets node provides a view that is based on the information available in the GV STRATUS Database. This allows the GV STRATUS application to provide you with flexibility for viewing and organizing your assets. You can configure bins and folders based on users, projects, events, or other parameters to suit your particular workflows.

Under the Assets node are the following nodes:

- **Groups** — Provides a view of folders that can contain assets from any location in the GV STRATUS system. This allows you to create folders and group assets without being constrained by the locations of the assets. The folders you create are visible and accessible by everyone on the GV STRATUS system. The folders exist in the GV STRATUS Database but not in K2 Summit/SAN storage. In previous Grass Valley products, Groups were known as "Collections".

- **Locations** — Provides a view of bins in K2 Summit/SAN storage. When you create a bin, it is created in K2 Summit/SAN storage.

The Navigator panel also provides a **Devices** node. Under the **Devices** node you find the local computer on which the GV STRATUS application is installed. Archive servers configured in GV STRATUS Control Panel are also shown under the **Devices** node if you have the **Archive Rights** or **Restore Rights** roles.

If you have the role of **Media Manager**, as configured in GV STRATUS Control Panel, the Navigator panel also provides the following:

- The **Groups** view includes the **Lost and Found** folder, which you can check for assets that do not have a location or that might not be otherwise accessible in the **Assets** view.
- Permission is granted to move assets from an archive system to the GV STRATUS system. Without this permission, assets may be copied but not moved.

The GV STRATUS Database controls both the **Assets** view and the **Devices** view. The database keeps the operations you perform in synchronization with the GV STRATUS/K2 system overall. The GV STRATUS Database also associates extended metadata with each of your assets, as well as keeps track of relationships between assets. You can use this metadata as search criteria with the advanced search tool.

Related Topics

[About the Lost and Found folder](#) on page 397

Browsing assets

From the Navigator panel, you can access bins and sub-bins of assets.

1. In the Navigator panel, select the bin, group or location you want to browse.

The list of sub-bins and top-level assets or files displays in the **Asset List** panel.

Asset enumeration is limited to 2500 per page in the GV STRATUS 32-bit application, and 10,000 per page in the 64-bit application.

If the limit is reached, a warning displays in the **Asset List** panel. You can click **More** to load the next batch of assets, or click **Search Here** to decrease the number of asset display.



There are too many items to reliably display at once.
Click 'More' to load the next set of items, or 'Search Here' to search this location.

2. To expand a bin, click the arrow next to the bin name in the Navigator panel. To minimize the bin, click the arrow next to the bin name a second time.
3. Use the scroll bar to move up and down the list of bins and sub-bins.

NOTE: *Offline K2 Summits are indicated by a red "X" overlay on K2 Summit icons and bins in the Navigator.*

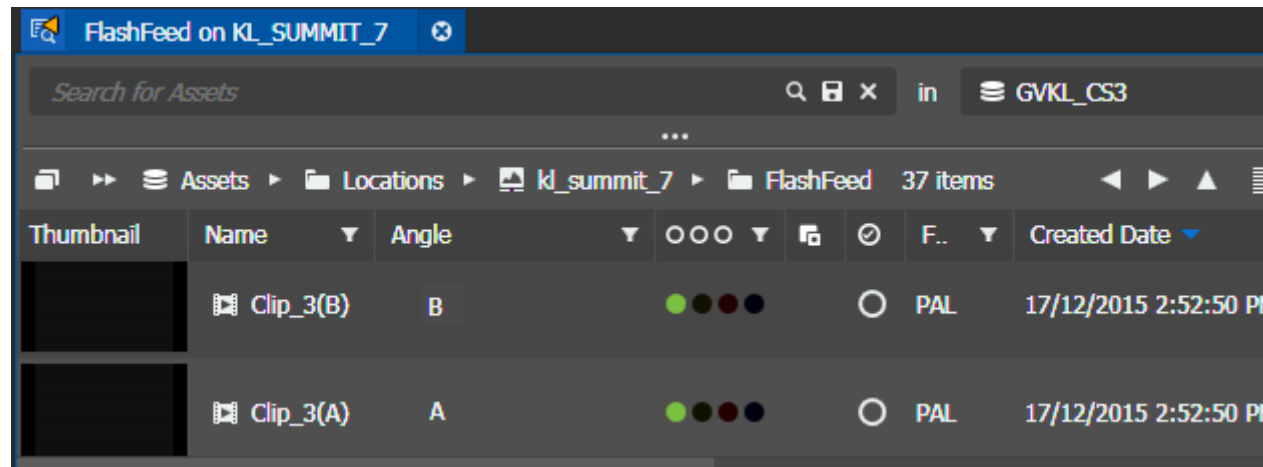
Browsing camera angles

From the **Asset List** panel, you can view an asset's associated camera angles. If a clip is recorded with gang record, each clip recorded in the gang is considered an angle.

This feature is typically used to integrate with a K2 Dyno Replay Controller workflow.















In the Asset List panel, right-click a gang-recorded clip and select **View Related | Camera Angles**.

The list displays all of the clips in the gang record as camera angles.





Asset indicators

These icons indicate the type of asset.

-  **3D Clip**: Identifies the asset as a 3D clip.
-  **Clip**: Identifies the asset as a clip.
-  **Clip Transfer**: Identifies the asset status as in progress for import or transfer.
-  **Key and Fill**: Identifies the asset as a key and fill.
-  **Multimedia**: Identifies the asset as multimedia.
-  **Placeholder**: Identifies the asset as a placeholder.
-  **Playlist**: Identifies the asset as a playlist.
-  **Recording Clip**: Identifies the asset as a recording clip.
-  **Sequence**: Identifies the asset as a sequence.
-  **Subclip**: Identifies the asset as a subclip or any single clip that references a parent clip.
-  **Archived Clip**: Identifies the asset as type archived clip.
-  **Archived Multimedia**: Identifies the asset as type archived multimedia.
-  **Proxy**: Indicates that the high-resolution asset has proxy.
-  **Remote asset**: Identifies the asset as type remote clip.

These colors provide additional indicators.

-  **Asset with no content**: Identifies the asset as type with no content.
-  **Clip**: Identifies the asset as type clip.



Playlist: Identifies the asset as a playlist.








Subclip: Identifies the asset as a subclip or any single clip that references a parent clip.



Sequence: Identifies the asset as a sequence.

These indicators report the status of the high resolution asset.

			
Online	Archived	Unavailable	Remote
Identifies that the asset has high-resolution material on the K2 Summit/SAN system.	Identifies that the high-resolution material of the asset is archived.	Identifies that the high-resolution material of the asset is unavailable.	Identifies that the high-resolution material of the asset is on a remote GV STRATUS system.

 **Status not indicated:** Identifies that the indicator is not reporting the relevant status. For example, if a particular colored indicator reports that an asset is "Remote", this dark indicator reports that the asset is "Not Remote".

This icon indicates that GV STRATUS security settings are applied to the asset or bin.



Access Restricted: Indicates the asset or bin has restricted access.

These buttons provide the ability to toggle the Protection Status of assets in the Asset List and Inspector.



Unprotected: Indicates that the asset's Protection Status is Unprotected and available for public use.



Protected: Indicates that the asset's Protection Status is Protected.

These buttons allow the change of an asset's approval status in the Inspector.



None: Identifies the approval status of the clip as none.



Approved: Identifies the approval status of the clip as approved.



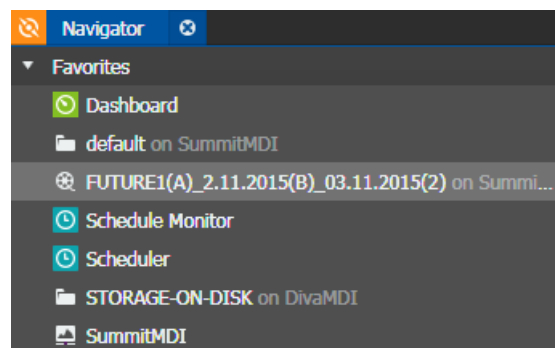
Rejected: Identifies the approval status of the clip as rejected.

Adding a favorite

You can drag and drop any type of GV STRATUS item to the Navigator panel and save it there as a shortcut.

1. In the Navigator panel, expand the Favorites section by clicking on the **Favorites** Show/Hide control. ▼

The Favorites section expands.



2. Identify the item that you want to make a favorite.
3. Drag and drop the item to the Favorites section.

A shortcut to the item is displayed in the Favorites section.

Removing or deleting a favorite

1. To remove a favorite from the Favorites section, right-click on the favorite and select **Delete**.
2. Depending on the type of favorite selected, either a **Confirm Remove** or a **Delete or Remove** dialog box opens. Select **Remove** or **Remove from Favorites**.

The favorite is removed from the Favorites section. The item itself is not deleted from its original location.

3. To delete the item itself, select **Delete** in the **Delete or Remove** dialog box.

The item is deleted from its original location.

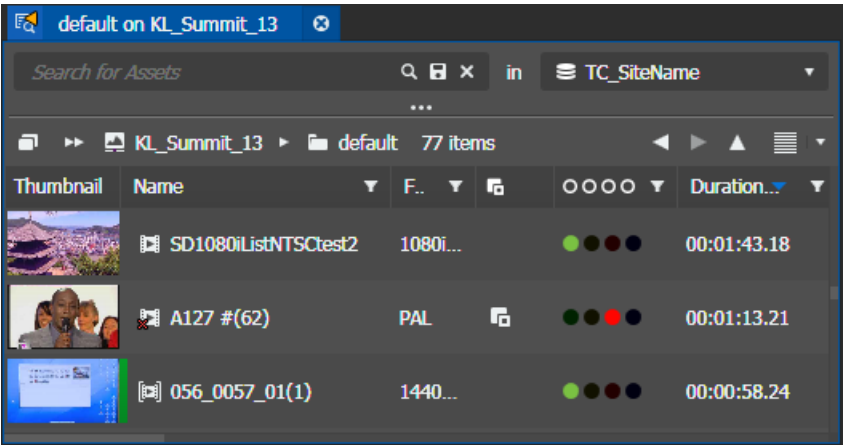
Managing Asset Lists

The topics in this section describe features for managing Asset Lists.

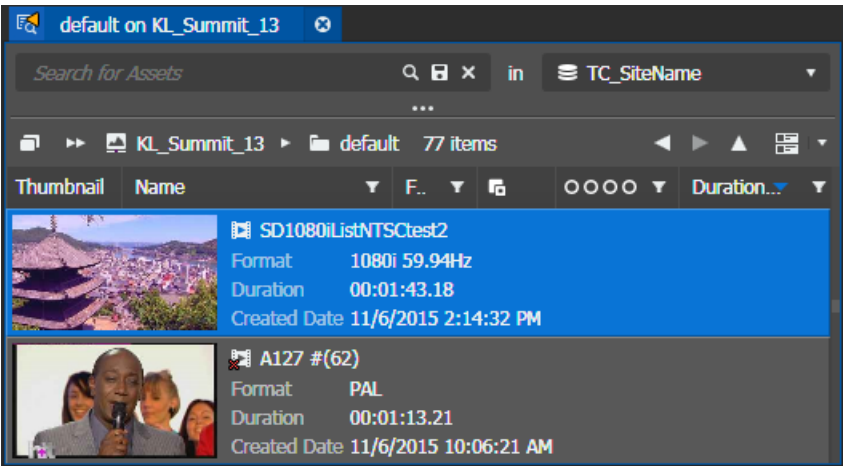
About view modes

You can customize the arrangement of items in a list in the Asset List panel. View modes can be selected as follows:

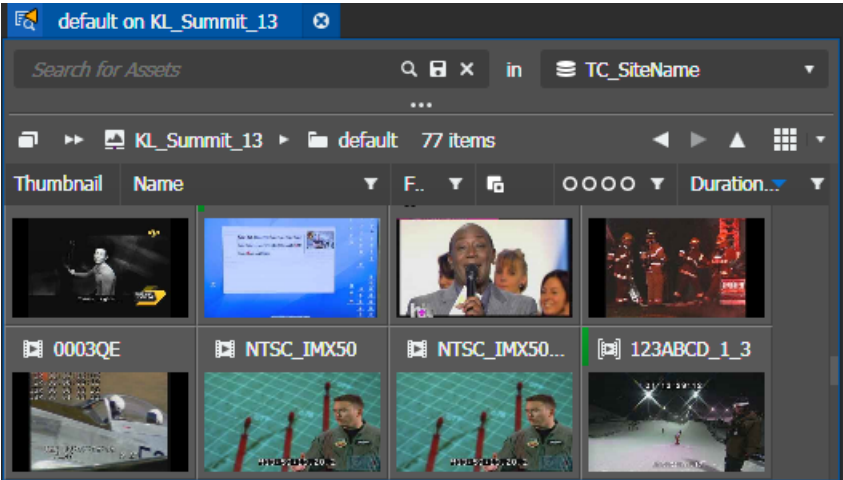
Details view



Tiles view





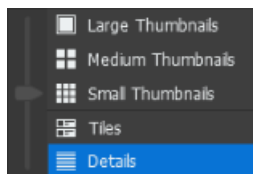
Thumbnails view



Customizing the display of list items

To customize the arrangement of items in a list, do one of the following:

- Either right-click in the list and click **View Mode** or click the **View Mode** down-arrow and select your preferred view.
- Click the **View Mode** button  multiple times to toggle between sizes.
- You can shrink or enlarge the Thumbnails view mode as follows:
 - a) Right-click in the list and select **View Mode**, or click the **View Mode** button  down-arrow.



- b) To adjust the size, use the Slider bar.
- You can select the order of properties displayed in the Tiles view mode as follows:
 - a) Right-click in the list and select **View Mode** and **Tiles**.
 - b) Right-click in the list and select **Tile Properties**

The Property Order dialog box displays the top three properties.
 - c) Highlight a property and use the up/down arrows to move the property up or down in the display.
 - d) Click **OK**.

The property is displayed in the desired order.
 - In Details mode, you can add or remove columns as follows:
 - a) Right-click a column head.
 - b) Select **Columns**.
 - c) Select or de-select the columns to display.
 - In Details mode, you can change the size of thumbnail display by resizing the thumbnail column.

Once the changes have been made, the customized display is saved only in your last Workspace. The changes are not applied by the **Save Workspace** command or under User Preferences.

Related Topics

[The Asset List panel](#) on page 769

Sorting a list view

1. You can do the following:
 - a) Click a column head.
Items are sorted based on the entries in that column.
 - b) To reverse the sort order, click the column head again.
2. To sort items in a list, do the following:
 - a) Right-click an item.
 - b) Select **Arrange By**.
A list of categories is displayed.
 - c) Select the category on which to sort.
The items are sorted based on the selected category.
 - d) To reverse the sort order, select the category again.

Adding and removing columns in a list

You can configure the columns displayed in an Asset List to support your specific workflow.


1. Right-click a column head and select **Columns**.
A menu of columns opens.
2. Select or clear check marks to arrange the columns displayed in your list.
Custom metadata fields, as configured in GV STRATUS Control Panel, are displayed at the bottom of the menu.

Related Topics

[Using custom metadata in Inspector](#) on page 818

Opening multiple Asset List panels

When you open a new Asset List panel, it displays as a tab in the original Asset List panel. The new panel can be undocked or moved to another location within the application window or to its own location on the Windows desktop. For example, if you are ingesting files on two different servers, you could compare the contents of their bins by viewing two adjacent Asset List panels.

To open a new Asset List panel, click the **Open New Panel** button. 

The new Asset List panel has the same view mode as the original Asset List panel and is automatically set as active; when you click on a bin in the Navigator panel, or create a new search, the results are displayed in this active panel even if it is hidden beneath other panels.

To compare multiple Asset List panels

You can easily compare searches or the contents of different bins by creating multiple Asset List panels.

1. Open a new Asset List panel.
The newly created Asset List panel is automatically made active.


2. Dock the newly created Asset List panel next to the original Asset List panel.
3. To populate the active Asset List panel, click on the desired item in the Navigator panel or perform a search.
4. To populate the other Asset List panel, first make it active.
5. Populate the other Asset List panel by clicking on the desired item in the Navigator panel or performing another search.



Managing multiple tabs in a panel

If you have more tabs than the application can display at one time, you can use the following:

- Left/right arrows at the top left and right corners of the panel let you scroll the displayed tabs in a panel.
- Hovering the mouse over a tab allows you to preview the contents of that tab.
- A drop-down arrow lets you select from a list of all the tabs open in the panel.
- Pressing **CTRL + Tab** allows you to switch between all open tabs in every panel.


Protecting an asset using Inspector

1. In the Asset List, double-click on the asset.
The asset is loaded into the Inspector panel.
2. On the General tab, for the **Protection Status** property, click the **Unprotected** button. 
The button toggles between protected and unprotected to set the status.

The asset is now protected. To verify this, you can hover over the **Protected** button  and view the property.
3. To unprotect the asset, click the **Protected** button. 

NOTE: *Protected assets cannot be renamed, deleted, or modified in any way.*


Protecting multiple assets in Asset List

1. In the Asset List, if it is not already displayed, display the Protection Status column.
2. In the row for each asset you are locking, click the **Unprotected** button. 

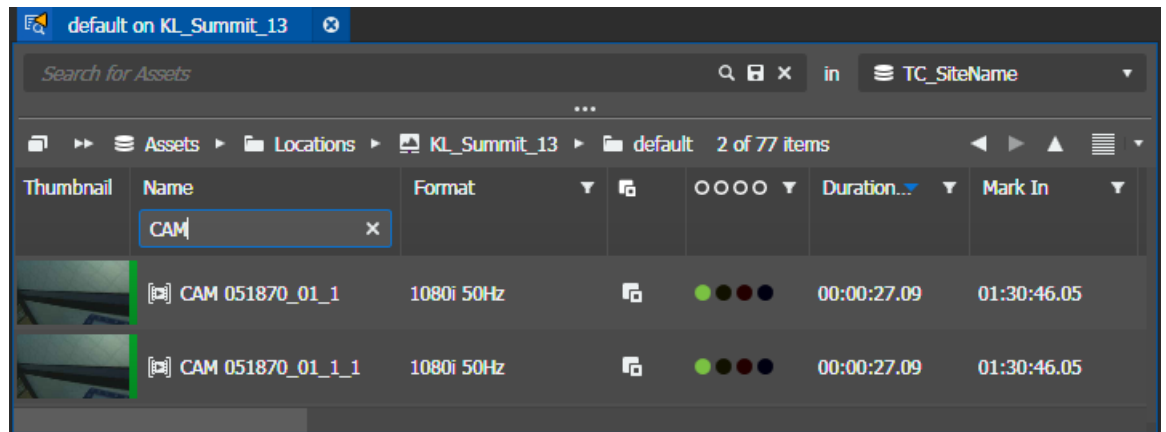
Assets toggle from unprotected to protected.

Filtering assets

You can filter a list of assets in the Asset List panel.

1. In the Navigator panel, select the bin or group that you want to filter. You can also filter search results.
The assets are displayed in the Asset List panel.
2. Identify the column by which to filter assets. Next to the column heading, click the **Enable Filter** button. 
A text field opens in the column heading cell.
3. Enter the filter criteria. As you enter each character, the list displays results accordingly.


4. To filter by multiple criteria, click the **Enable Filter** button  in multiple columns and enter filter criteria. The list displays only results that match all criteria.



5. To remove a filter, click the **X** button in the field.

Renaming assets

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to change the name of an asset, you must be assigned with write permission for the **Name** property in Metadata | Permissions settings of GV STRATUS Control Panel.

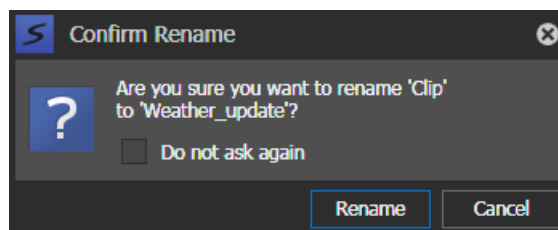
1. Select an asset that you want to rename on the Asset List.
2. Do one of the following:
 - Press the  **F2** key
 - Right-click and select **Rename**.

3. Enter the new name for the asset.

The name must conform to asset and bin name limitations.

The name change must not be a change in capitalization only.

The Confirm Rename dialog appears.



4. Click **Rename** to confirm the change.

The asset name changes to the new name.

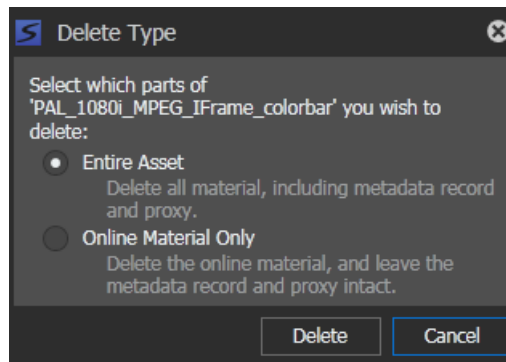
Deleting assets

Your delete operations depend on how your user account is configured in GV STRATUS Control Panel. Delete buttons, menu items, and keyboard shortcuts are disabled if delete rights are denied. An asset with a child association (shallow copy) cannot be deleted. Deleting an asset with multiple high-resolution associations (deep copy) deletes the entire asset from multiple locations. A Media Manager has additional options to delete parts of an asset. If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins and assets that do not allow read permissions are not visible.

1. In an Asset List panel, right-click the asset you are deleting and select **Delete**.

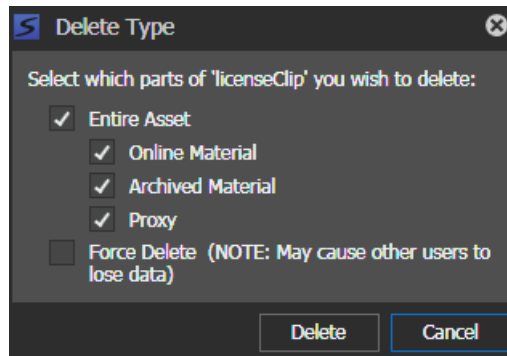
A Delete Type dialog box opens. The dialog box for Media Managers offers additional options.

2. If you are not a Media Manager, select your options as follows:



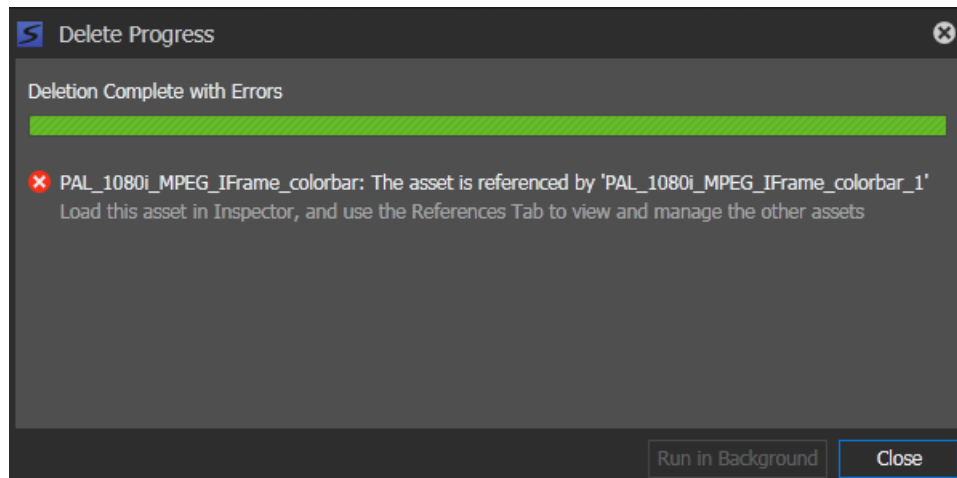
- Entire Asset — Select this to delete the entire asset including online material and proxy. Archived material is not deleted.
- Online Material Only— Select this to only delete online material. Metadata, proxy, and archived material is not deleted.

3. If you are a Media Manager, select your options as follows:



- Entire Asset — Select this to delete the entire asset including online material, archived material, and proxy. If one part of the asset is in use or blocked from deletion, no part of the asset will be deleted.
 - Online Material — Select this to only delete online material of the asset on the K2 Summit/SAN system.
 - Archived Material — Select this to only delete archived material of the asset on the archived system.
 - Proxy — Select this to only delete the proxy of the asset.
 - Force Delete — Select this to delete the entire asset even if one part of the asset is in used by other users.
4. Click **Delete**.

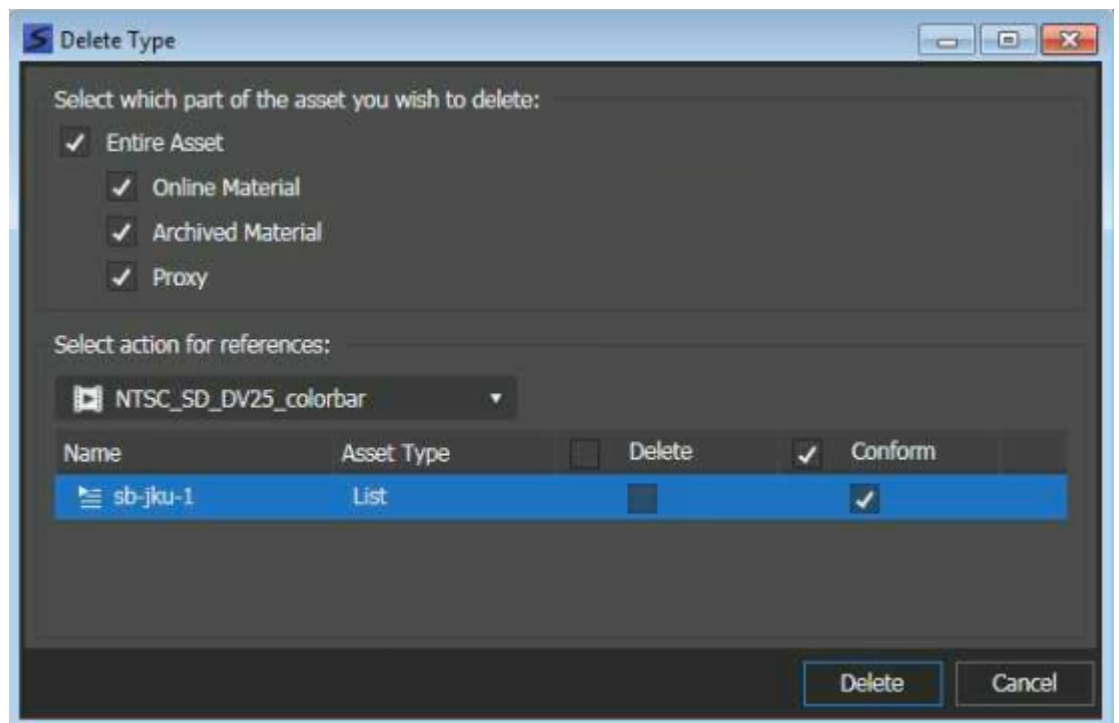
5. If one or more of the assets you are deleting have child associations, the **Delete Progress** dialog box displays "...The asset is referenced...".



Proceed as follows to continue with the delete operation:

- a) Click **Resolve Errors**.


The **Delete Type** dialog box opens.



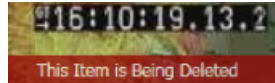
- b) Select the asset you are deleting in the **References** drop-down list.
- c) For each item that references the asset, select either **Delete** or **Conform** check box as follows:
- **Delete**: Deletes the sub-clip or sequence that references the asset.
 - **Conform**: Confirms and saves the sub-clip or sequence that references the asset. Original sub-clips and sequences are deleted after the conform is complete.

You can also select the top check box to select all references that need to be deleted or conformed.

6. Click **Delete**.

A red icon displays on the Asset List to indicate that the asset is being deleted. 

If the asset is dragged into the Inspector while being deleted, the viewer displays the message:
This Item is Being Deleted



The asset is deleted according to your selection. However, online material can only be deleted if the asset is not in use.

Related Topics

[Asset copies and deletions](#) on page 374

[Asset copies and deletions](#) on page 374


Searching assets

The topics in this section describe search features.

About searches

You can search assets using the Simple Search tool at the top of the Asset List panel. When you type in text, specify the remote or local GV STRATUS system to search (the search provider), and press Enter. Results are displayed in a search results asset list.

For a simple search you can enter text with advanced query syntax. Assets with names, tags, descriptions, comments, marker text, or custom text data that match the search are returned.

Use the the **Advanced Search Toggle** button  next to the Search text field to use additional criteria and conditions.

You can save a search and re-use it later on. Searches are saved in the Navigator panel. When you click on a search, the search runs and results are displayed.

These search features apply to searching the GV STRATUS system. If you search outside the GV STRATUS system, GV STRATUS search features do not apply.

Related Topics

[The Asset List panel](#) on page 769

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

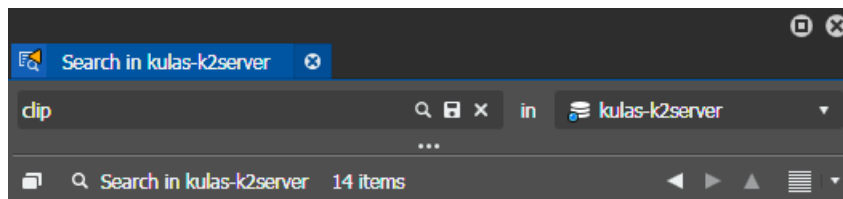
Searching assets with the Simple Search tool

1. In an Asset List panel Location drop-down list, select the GV STRATUS system you want to search.

2. In the Simple Search tool, enter your search.

For a simple search you can enter text with advanced query syntax. Assets with names, tags, descriptions, comments, marker text, or custom text data that match the search are returned.

3. To start the search, press **Enter**.



Assets matching the search criteria are displayed in a search results asset list.

If it is not apparent why some assets were returned for your search, add columns to the search results asset list or view assets in Inspector.

Related Topics

[About searches](#) on page 794

[Search constraints and considerations](#) on page 797

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

About advanced query syntax, advanced searches and custom expressions

A combination of search features provide flexibility in creating GV STRATUS searches. Entering text with advanced query syntax is available in both the Simple Search tool and the Advanced Search tool. The Advanced Search tool provides additional capabilities.

The advanced query syntax available when you enter text is as follows:

- If you search on one or more words (with no search syntax), the search returns assets that match all the words in any order. This is the Boolean "AND" operator. This is a change from previous versions, where this was a phrase search.
- Search syntax is as follows:
 - If you enter words surrounded by quotation marks, the search returns assets that match that exact phrase, with the words in the exact order.
 - Text surrounded by quotation marks is searched literally. Any search syntax or operators within the quotation marks are interpreted as plain text instead.
 - Simple boolean operators AND, OR and NOT are supported. Enter these operators in all capital letters.
 - Parenthesis control the precedence of the boolean operations.

The following are advanced query syntax examples. Each example is followed by the steps the GV STRATUS system goes through as it processes the search:

- “the quick brown” (fox OR dog) jumped over the NOT lazy cat
 1. Contains the phrase “the quick brown” AND
 2. Contains ‘fox’ or ‘dog’ AND
 3. Contains ‘jumped’ AND
 4. Contains ‘over’ AND
 5. Contains ‘the’ AND
 6. Does not contain ‘lazy’ AND
 7. Contains ‘cat’
- abc AND (def OR ghi)
 1. Contains ‘abc’ AND
 2. Contains ‘def’ OR ‘ghi’
- abc AND def OR ghi
 1. Contains ‘abc’ AND ‘def’ OR
 2. Contains ‘ghi’

The **Advanced Search Toggle** button  next to the Simple Search tool provides additional capabilities to the search tool.



You can search using multiple conditions. You define the type of search as follows:

- ALL of the conditions below are met — This is the Boolean "AND" operator. The search returns assets that match all conditions. Only conditions with values (conditions that are not blank) are included in the search.
- ANY of the conditions below are met — This is the Boolean "OR" operator. The search returns assets that match any of the conditions. Only conditions with values (conditions that are not blank) are included in the search.

- Custom — You can enter text to create a custom expression using Boolean operators.

In your custom expression, you use the condition numbers (1, 2, 3, 4, etc) to represent the condition on which you are searching. For example, if you have configured condition 1 as "Asset Name is basketball" and condition 2 as "Asset Created is Today", then entering custom expression "1 AND 2" finds assets named basketball created today.

The "OR" and "AND" operators are at the same precedence, so for complex expression you use parentheses to group relationships. The following are examples of complex expressions:

- (1 AND 2) OR (1 AND 3)
- ((1 AND 4) OR 3) AND ((2 OR 4) AND 3)

The screenshot shows the 'Show results when:' dropdown set to 'Custom...'. Below it, the 'Custom Expression:' field contains '(1 AND 2) AND (3 OR 4)'. There are four conditions listed:

Condition Number	Field	Operator	Value
1	Created Date	is between	1/1/1990 and Today
2	Rating	is greater than	★★★★★
3	Name	contains	edge
4	Name	contains	grass

At the bottom left is an 'Add Condition...' button, and at the bottom right is a 'Limit Results:' dropdown set to '1000 Items'.

You can use advanced query syntax in the Advanced Search tool. When you create a "contains" condition that searches a text field, you can enter text with advanced query syntax to search that field. The following is an example of this type of condition:

- Name | contains | guitar NOT rock

In this way a search in the Simple Search tool is equivalent to a "contains" search that searches multiple text fields by default. For a simple search you can enter text with advanced query syntax. Assets with names, tags, descriptions, comments, marker text, or custom text data that match the search are returned.

You can also search for custom metadata in the Advanced Search tool. In addition, the custom metadata search allows you to search for an empty field.

For an extended application of boolean logic in the Advanced Search tool, you can create multiple conditions that search text fields, each of which use advanced query syntax. Then you can combine those conditions as a custom expression.

Related Topics

[Searching assets with the advanced search tool](#) on page 798

Search constraints and considerations

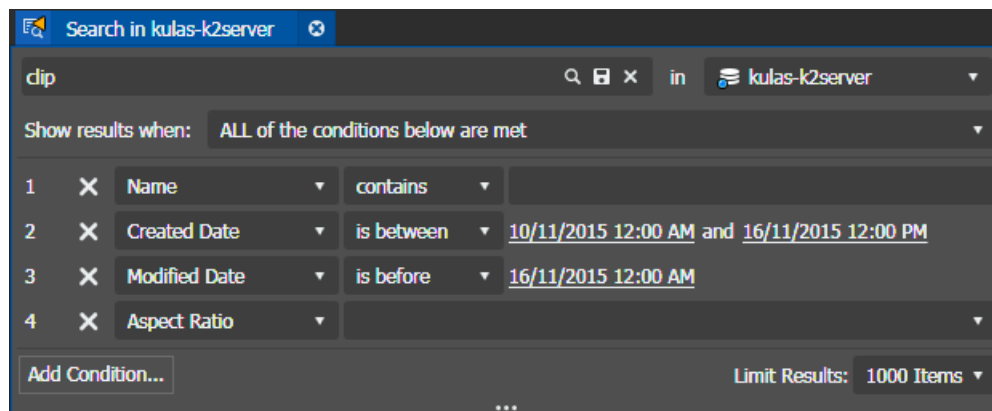
By default, search results are limited to 2000 items in the 32-bit application, and 5000 items in the 64-bit application. In the advanced search section, you can define the limit, from 50 to 5000 items.

To increase the success of your search, do the following:

- With the exceptions explained below, non-alphanumeric characters, such as !, -, _, @, #, %, etc., are interpreted as breaks and are searched the same as a space between words in the search string. Do not form a search using these characters alone. The exception is the asterisk character (*), which is not interpreted as a break.
- Non-alphanumeric characters that are a part of common conventions such as dates, times, decimals, fractions, timecode, email addresses, IP addresses, etc., are not interpreted as a break in the convention. If a word has an @ character in the middle, it is interpreted as an email address and the @ character is not searched as a space between words.
- To include non-alphanumeric characters in your search, surrounded your search word or words with quotation marks.

Searching assets with the advanced search tool

1. In an Asset List panel, clear the Simple Search field.
2. Click the **Advanced Search Toggle** button **...** at the bottom of the Simple Search tool.
The advanced search options open.



3. In the Location drop-down list, select the location (search provider) you want to search.
4. Configure search conditions as follows:
 - For each condition (1, 2, 3, 4, etc) select from lists or enter text to define the condition.
A **Marker** search includes marker name, marker description, and marker tags. While a custom metadata field search also allows you to search for an empty field.
 - Click the **Add Condition** button or the **X** button to add or remove conditions from the list.
 - When you create a "contains" condition that searches a text field, you can enter text with advanced query syntax to search that field.
 - When you create an "is between" condition, you can enter dates and times to specify a time range for the search.
 - When you create the "is Empty" condition, you can search for empty fields including rating, tags, and Boolean custom metadata.

5. In the **Show results when** drop-down list, select the type of search you are doing:
 - **ALL of the conditions below are met** — The search returns assets that match all conditions.
 - **ANY of the conditions below are met** — The search returns assets that match any condition.
 - **Custom** — A Custom Expression field opens in which you can enter a custom search expression.
 6. In the **Limit Results** drop-down list, select the maximum number of assets in your search results.
 7. To start the search, press **Enter**.
- Assets matching the search criteria are displayed in a search results asset list.

If it is not apparent why some assets were returned for your search, add columns to the search results asset list or view assets in Inspector.

Related Topics

[Search constraints and considerations](#) on page 797

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

Determining the location of a search result asset

If a location of an asset is not displayed in the search result asset list **Path** column, you can find all of the asset's locations in the **Associations** tab of the Inspector panel.

1. From the search result list, select the asset that needs its location path determined.
2. Open the asset in the Inspector panel.

The asset displays in the Inspector. The location of the asset displays under the **Path** column in the **Associations** tab.

Related Topics

[Adding and removing columns in a list](#) on page 788

Stopping a search or stopping refreshing a bin


To stop a search or a refresh in progress, click the red X in the Progress indicator



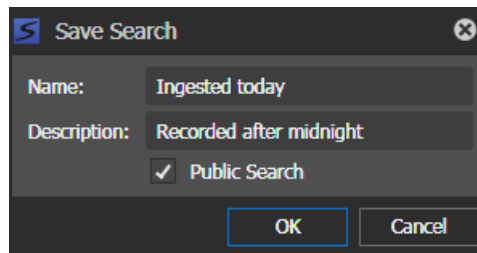
The application stops the search or refresh, and the Progress indicator disappears.

Saving searches

Searches that you create can be saved in the Navigator panel and reused later.

1. To save a search, click the **Save** button  next to the **Search** text field.

The Save Search dialog box displays.

A screenshot of the 'Save Search' dialog box. It has a title bar with a blue 'S' icon and the text 'Save Search'. Inside, there are two text input fields: 'Name:' with the value 'Ingested today' and 'Description:' with the value 'Recorded after midnight'. Below these is a checkbox labeled 'Public Search' which is checked. At the bottom right are two buttons: 'OK' and 'Cancel'.

2. Enter the name of the search and, if desired, a description.
3. If you have the role of Media Manager, you can make the search available to all GV STRATUS system users by selecting **Public Search**.
4. Click **OK**.

Using a saved search

1. In the Navigator panel, expand the **Searches** node.
2. Find saved searches, organized as follows:
 - Public Searches: Searches saved as public by GV STRATUS system users with the role of Media Manager.
 - Saved Searches: Searches saved by you.
3. Select a saved search.

The search is re-run. The Asset List panel displays the latest results.

Creating and modifying bins and groups

- To create bins, you must be logged on to the GV STRATUS application user account with the assigned role of **Bin Creation Rights**.

Use this procedure to create or modify a bin in your K2 Summit/SAN system storage.

Creating or modifying a bin under the Locations node in Navigator affects a corresponding bin in K2 storage. Groups created under the Groups node in Navigator create shortcut folders in the STRATUS database, which do not correspond directly to K2 bins.

1. Do one of the following to create a bin:

- In the Navigator panel, right-click a K2 Summit/SAN system or a bin.
- Right-click in an Asset List panel for a K2 Summit/SAN system bin.

NOTE: *To prevent corrupting the K2 database, do not exceed 8 nested bins levels when creating bins.*

2. Select **New | Bin**.

A New Bin dialog box opens.

3. Enter a name for your bin and click **OK**.

4. If GV STRATUS security settings are enforced, load the bin into Inspector and verify bin ownership.

If the parent bin has Owner Hint security settings configured, the created bin automatically inherits the configured owner or owners, regardless of the user account creating the bin.

5. To change a bin name, right-click a bin and select **Rename**.

You must be assigned **Rename Bin Rights** in GV STRATUS Control Panel. If GV STRATUS security settings are enforced, you must have adequate permissions. If not, menu selections are disabled.

Rename bins with care. A bin containing a large number of assets can consume system resources for an extended period of time while the rename operation is applied.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

Asset copies and deletions

When you copy an asset, different types of associations are created, depending on the K2 storage location and the type of asset copy, as follows:

- **Shallow copy** — When you copy assets and both copies are in the same K2 storage location, shallow copies are created. With a shallow copy, the high-resolution media files are not copied. Rather, the K2 media database and the GV STRATUS database contain a record for each shallow copy, and each record references the same media files. In the GV STRATUS system, this results in an asset with multiple references, similar to a subclip.
- **Deep copy** — When you copy assets and the copies are in different K2 storage locations, deep copies are created. With a deep copy, the high-resolution media files are copied. The K2 media database on each K2 system references its own media files. The GV STRATUS database references all the media files on all the different K2 storage locations and archive locations. In the GV STRATUS system, this results in an asset with multiple high-resolution associations.

When deleting assets, the following occurs:

- Assets with shallow copies — When the GV STRATUS system attempts to delete the shallow copy, the asset is not deleted. You must delete the referenced copy before you can delete the asset.
- Assets with deep copies — When you delete any one of the associated high-resolution assets, in any K2 storage or archive location, by default the GV STRATUS system deletes all the high-resolutions assets in all locations. Since it is one asset with multiple high-resolutions associations, the entire asset with all its associations is deleted. If you only want to delete a high-resolution association, you can do so on the **Associations** tab in the Inspector.

Take care when creating copies, considering your workflow in which copied assets are deleted. The GV STRATUS roles of **Delete Rights** and **Media Manager** can be assigned to user accounts to implement the desired workflow. As part of the delete operation, Media Managers can specify online/archive deletion and choose whether to delete or conform referenced copy of assets.

Related Topics

[Deleting assets](#) on page 791

[Deleting assets](#) on page 791

Viewing a video asset

1. Do one of the following:
 - Double-click an asset in the Asset List.
 - Drag an asset from the Asset List and drop it on the Inspector video player area.
 - Right-click on an asset in the Asset List, select **Open With | Inspector**.

The asset displays in the Inspector.

2. View the video displayed in the upper area of the Inspector.
3. If desired, expand the video to full-screen view.


Related Topics

[Using the Audio Overlay](#) on page 934

Identify high and low resolution while viewing

The following applies to viewing a video asset in the Source Viewer, Sequence Viewer, and viewers in Inspector, Advanced Logging, and Segmentation tools.

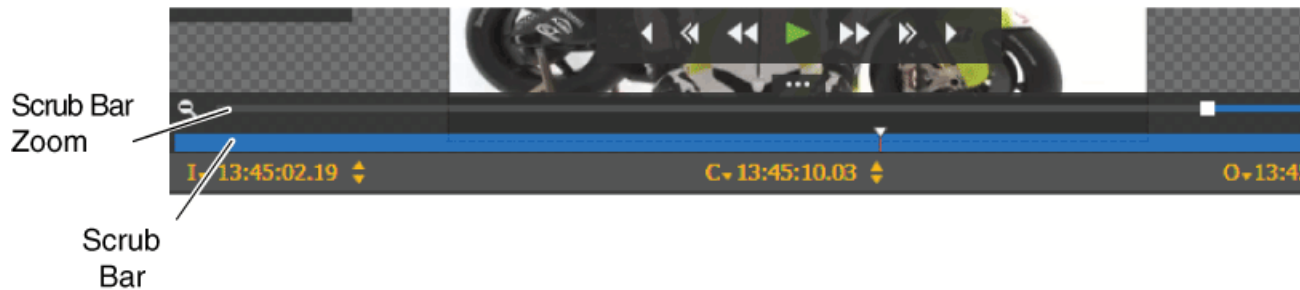
1. Load a video asset into the viewer.
2. Hover the cursor over the player as necessary so that overlay controls appear.
3. Identify the indicator in the lower right of the viewer as follows:




 **Proxy Playback:** Identifies currently loaded asset as low-resolution proxy.

 **High-Res Playback:** Identifies currently loaded asset as high-resolution.

Using the scrub bar zoom to navigate

You can use the scrub bar zoom on specific part of the asset by zooming on the scrub bar itself. This is particularly useful for assets with long duration. You can easily zoom on the scrub bar to get to a segment on the timeline.



- Drag the scrub bar slider to navigate through the clip.
- Click at any point along the scrub bar to jump the slider to that location in the clip.
- Select the **Toggle Zoom Controls**  button, and do as follows:
 - Click the **Zoom In** button  to zoom in the scrub bar display. The scrub bar zooms in for users to navigate.
 - Click the **Zoom Out** button  to zoom out the scrub bar display. The scrub bar zooms out for users to navigate.
- In zoomed in position, you can also drag the **Scrub Bar Zoom** to a different position on the timeline. The Scrub Bar moves synchronously with the **Scrub Bar Zoom** so you can zoom at a different position on the timeline.
- By default, the **Scrub Bar Zoom** collapses automatically if the viewer is left idle. For the **Scrub Bar Zoom** to remain fixed on the viewer, you need to set the **Scrub bar Size** setting to **Fixed Size** in the Player tab of User Preferences setting.

Related Topics

[Configuring Source User Preference](#)

Viewing a video asset in full screen

The following applies to viewing video asset in the Source Viewer, Sequence Viewer, and viewers in Inspector, Advanced Logging, and Segmentation tools.


Click the **Full Screen** button  on the upper right of the viewer.

The viewer expands and displays in full screen.

The overlay transport controls, timecode controls, scrub bar, and keyboard shortcuts can still be used to navigate through the asset in full screen mode.

If desired, the timecode controls can also be expanded and resized in full screen view.

Restoring viewer to normal size

Click the **Restore** button  on the upper right of the viewer.

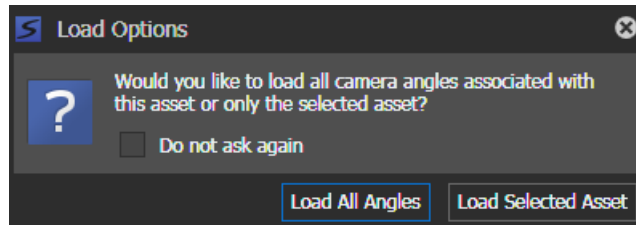
The viewer restores to its normal size.

Viewing asset with multiple angles

The following only applies to viewing video asset with multiple angles.

1. Load the asset into the Inspector panel.

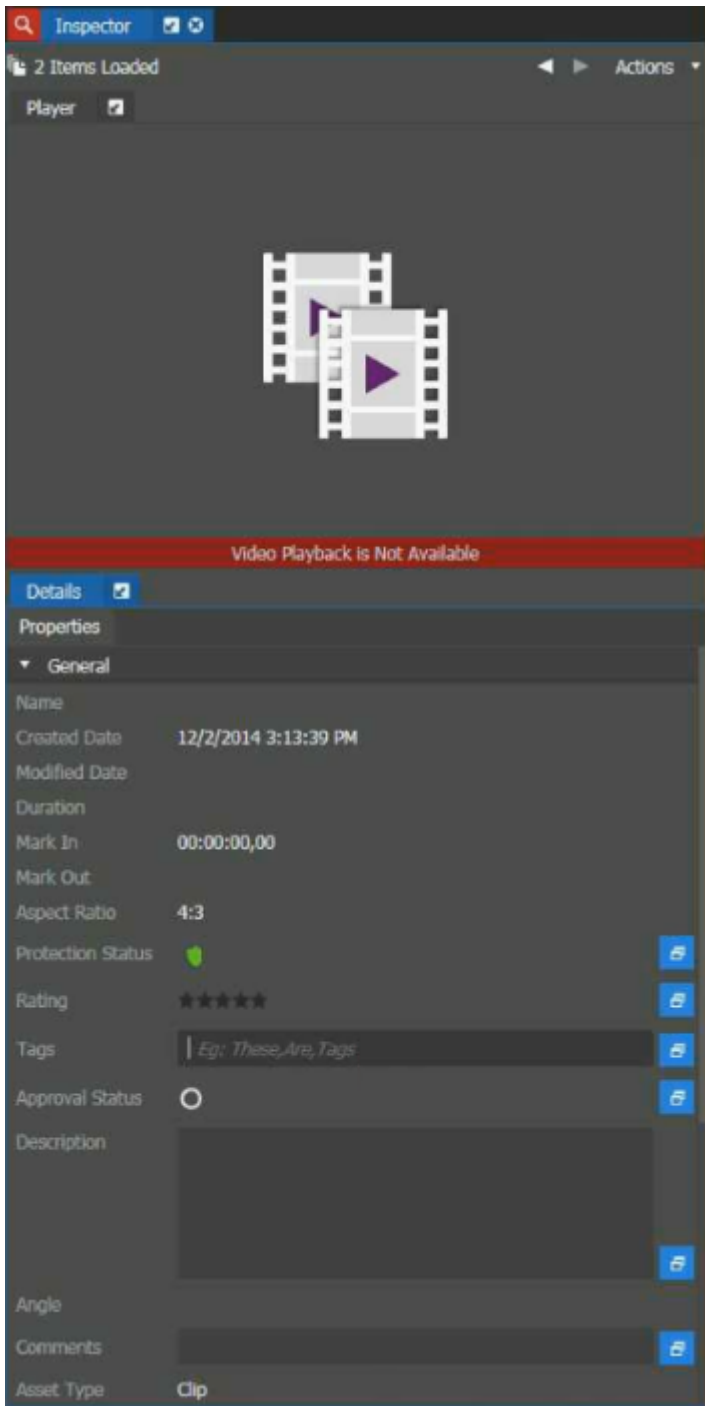
The **Load Options** dialog appears.



2. Select **Load all angles** to view assets with multiple angles.
3. Select the **Do not ask again** checkbox to load all angles each time you view an asset with multiple angles, if desired.

If the checkbox is not selected, the **Load Options** dialog displays each time you load an asset with multiple angles.

The asset displays in the Inspector panel.



Toggling between camera angles in Inspector and Channel Panel

If a clip is a part of a K2 Dyno camera angle set or a GV STRATUS gang record set, in Inspector player and in Channel Panel player you can toggle between the associated clips in the set.

1. On the player, hover your mouse pointer on the top right of the asset.

The **Camera Angle** selector overlay displays.

NOTE: *You can only toggle between angles for playback of ganged recorded assets or K2 Dyno camera angle assets.*

2. Select the desired angle on the overlay display.

The clip of the selected angle displays.

You can also toggle camera angles of audio only assets. The player displays thumbnail of the audio only asset, and the **Camera Angle** selector overlay displays available angles that you can select.

Related Topics

[Browsing camera angles](#) on page 782

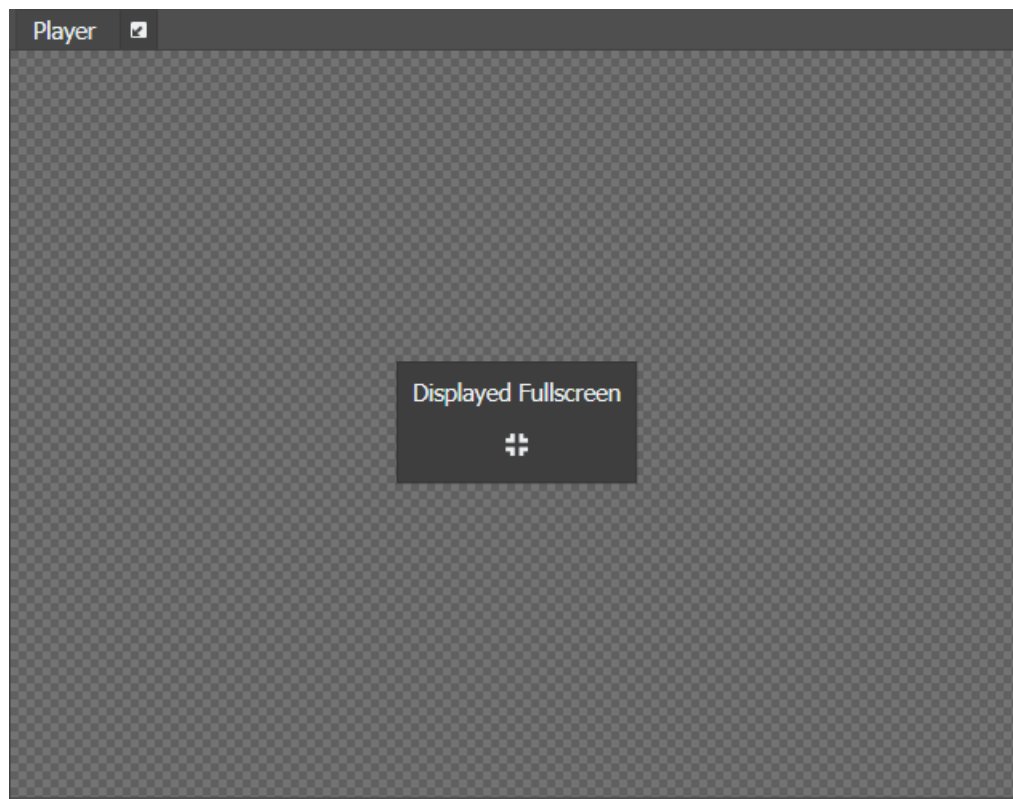
Sending video asset to the next display monitor



The video asset needs to be in full screen mode before you can enable the next display control.

1. Click the **Next Display** button  on the upper right of the viewer.

The video asset displays on the next display monitor.

The viewer in GV STRATUS application shows the **Displayed Fullscreen** dialog.



2. To view the asset in both next display monitor and GV STRATUS viewer, load the same asset in the Inspector panel and click the **Full Screen** button. 
3. To restore the playback from the next display monitor to the GV STRATUS viewer, click the **Restore** button. 

Access to multiple GV STRATUS sites

You can access assets on remote GV STRATUS sites.

If you have remote sites configured in your system, the Navigator panel displays nodes for those sites. Only the **Assets** node is displayed under remote sites. Asset indicators identify assets on remote sites.

When you access multiple GV STRATUS sites, you do so from the context of your local site. Both local and remote GV STRATUS client PCs must be able to resolve the hostnames of local GV

system servers, such as Core Server, Proxy Server, and K2 system. This local site is your primary site, where you do your normal workflow tasks, such as ingesting, editing, and playing out on channels. When you access a remote site, you can search and browse the remote assets, but you cannot edit or do other operations on remote assets. You must transfer the remote asset to your local site in order to apply the full range of GV STRATUS operations to the asset. Asset transfers are allowed both ways between your local and remote sites.

The GV STRATUS system uses progressive download to display low-resolution proxy video of assets from remote sites. This minimizes the effect of a slower load time when you load an asset into Inspector or some other GV STRATUS viewer. Progressive download selectively downloads and caches the portion of the low-resolution proxy video asset just before and after the current scrub bar position in the video player, until finally the entire proxy file asset is downloaded. As long as the GV STRATUS application remains open, the downloaded proxy asset remains locally available. If you load the proxy asset into the video player again, the GV STRATUS application uses the locally cached proxy file asset. In the GV STRATUS viewer, a spinning progress indicator displays caching and shaded indicators on the scrub bar display the portion of the proxy asset cached. You can also edit Player User Preferences to control when progressive download occurs.

Related Topics

[Asset indicators](#) on page 783

Configuring Player User Preferences

You can configure the audio meter display in the Player User Preferences setting.

When remote assets are slow to open in a GV STRATUS video player, you can configure how the GV STRATUS application handles the download to the video player.

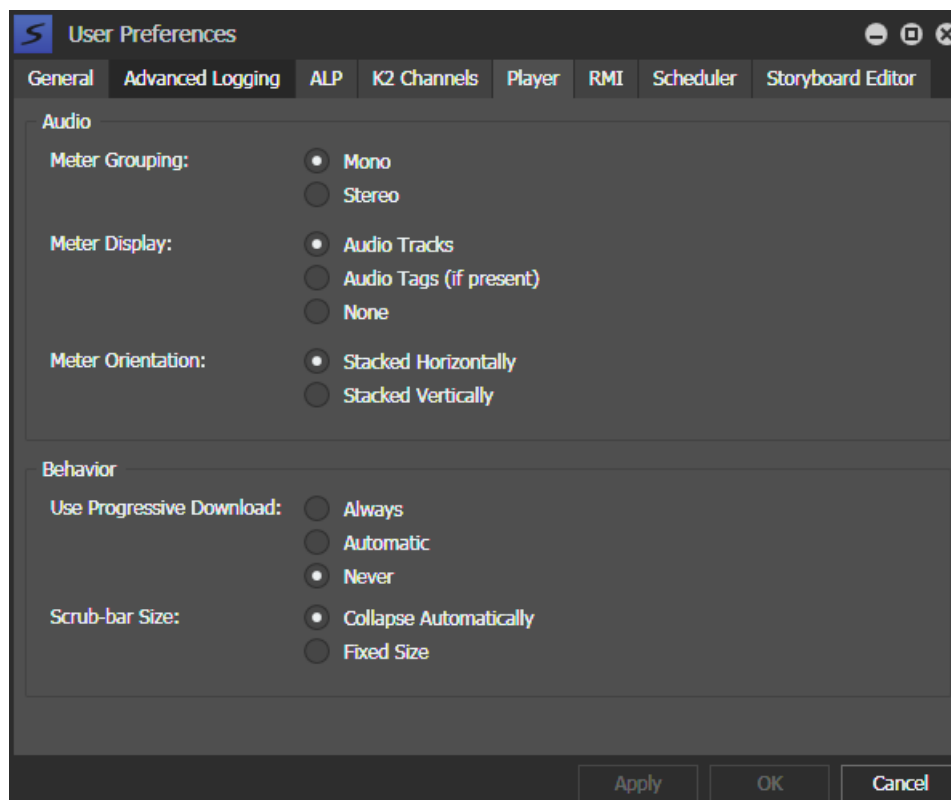
Scrub bar and scrub bar zoom position in the Inspector and other viewers can also be configured on this tab.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. Select the **Player** tab.



3. Select from the following Audio options:
 - **Meter Grouping:** For audio meter grouping setting, select one from below.
 - **Mono:** Audio Overlay displays Mono audio tracks, with 1 channel per audio bar. This is the default setting.
 - **Stereo:** Audio Overlay displays Stereo audio tracks, with 2 channels combined per audio bar.
 - **Meter Display:** For the audio meter label display, select one from below.
 - **Audio Tracks:** Displays track number on the audio bar, which is the default setting.
 - **Audio Tags:** Displays audio tags on the audio bar. You can configure audio tags for audio channels on the K2 AppCenter configuration manager, as per asset basis.
 - **None:** No audio label display if this option is selected.
 - **Meter Orientation:** For the audio meter orientation display, select one from below.
 - **Stacked Horizontally:** Audio Overlay displays audio meter stacked horizontally, which is the default setting.
 - **Stacked Vertically:** Audio Overlay displays audio meter stacked vertically.

4. Select one of the following progressive download options:

- **Always:** If you only access remote GV STRATUS sites, select this option. The GV STRATUS application uses progressive download for all assets on all sites.
- **Automatic:** If you access both local and remote sites, or if your network access is sometimes slow, select this option. If a remote site, the GV STRATUS application uses progressive download. If a local site, the GV STRATUS application tests each asset's download speed and if slow, the application tries to download it three times. If the speed is still slow, the GV STRATUS application switches to progressive download for all assets from all sites. The GV STRATUS application continues to use progressive download until it is restarted.
- **Never:** If you never access remote sites and you do not want to use progressive download, select this option. The GV STRATUS application does not test an asset's download speed. If an asset's download speed is too slow, performance of other GV STRATUS operations can be affected.

Progressive download selectively downloads and caches the portion of the low-resolution proxy video asset just before and after the current scrub bar position in the video player, until finally the entire proxy file asset is downloaded. As long as the GV STRATUS application remains open, the downloaded proxy asset remains locally available. If you load the proxy asset into the video player again, the GV STRATUS application uses the locally cached proxy file asset.

5. Select one of the following scrub-bar size options:

- **Collapse Automatically:** The scrub bar and scrub bar zoom collapse automatically when the viewer is left idle, which is the default setting.
- **Fixed Size:** If selected, the scrub bar and scrub bar zoom remain fixed on the viewer always.

6. To apply a change and continue editing user preferences settings, click **Apply**.

7. To accept any changes and close the dialog box, click **OK**.

The dialog box closes.

Changing the thumbnail of an asset

If you are assigned with the **Change Thumbnail Rights** role, you can change the thumbnail of an asset.

1. Load the asset into the Inspector to view the asset.
2. In the asset, identify the image to use as the new thumbnail.
3. Then do one of the following:
 - Click the **Actions** menu on the Inspector, and select **Set Asset Thumbnail**.
 - Right-click on the asset and select **Set Asset Thumbnail**.
 - Press these shortcut keys: **Ctrl + B**

The new thumbnail replaces the previous thumbnail on the Asset List.

Importing image file as thumbnail of an asset

- You must be assigned with **Change Thumbnail Rights** role to change the thumbnail of an asset.
- The image file must not exceed 128KB in size.

- Image file formats such as JPG, PNG, TIF, and GIF are supported.

You can import an external image and set it as the thumbnail of an asset.

1. Select an asset in the Asset List.
2. Right-click on the asset and select **Upload Thumbnail**.






The **Select Thumbnail File** dialog opens.

3. Browse and select an image to import as the new thumbnail.
4. Click **Open**.

The new thumbnail replaces the previous thumbnail of the asset.

Adding or modifying metadata

1. To add or modify metadata in the Inspector panel, do the following:
 - a) Open an asset in the Inspector panel.

- b) On the Properties tab, click the **Show/Hide** button  of the **General** or **Other** (if displayed) section to display metadata.
 - c) Add star ratings, tags, descriptions, comments and other information.
Tags are comma delimited, so you can enter multiple tags.
 - d) To add a keyword, click the **Add Keyword** button.  ()
 - e) To add a marker, click the **Add Marker** button.  ( **Insert**)
2. To add or modify metadata in an Asset List, do the following:
- a) Display assets in an Asset List.
 - b) View the Asset List in the Details view.
 - c) Display the desired columns.
 - d) Use **ALT + Click** to modify text.

Related Topics

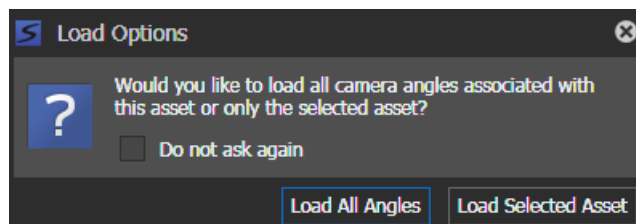
[Limitations for creating and naming assets and bins](#) on page 1146

Adding metadata to assets with angles

The following only applies to assets associated with multiple angles.

1. Drag the asset from the Asset List into the Inspector panel.

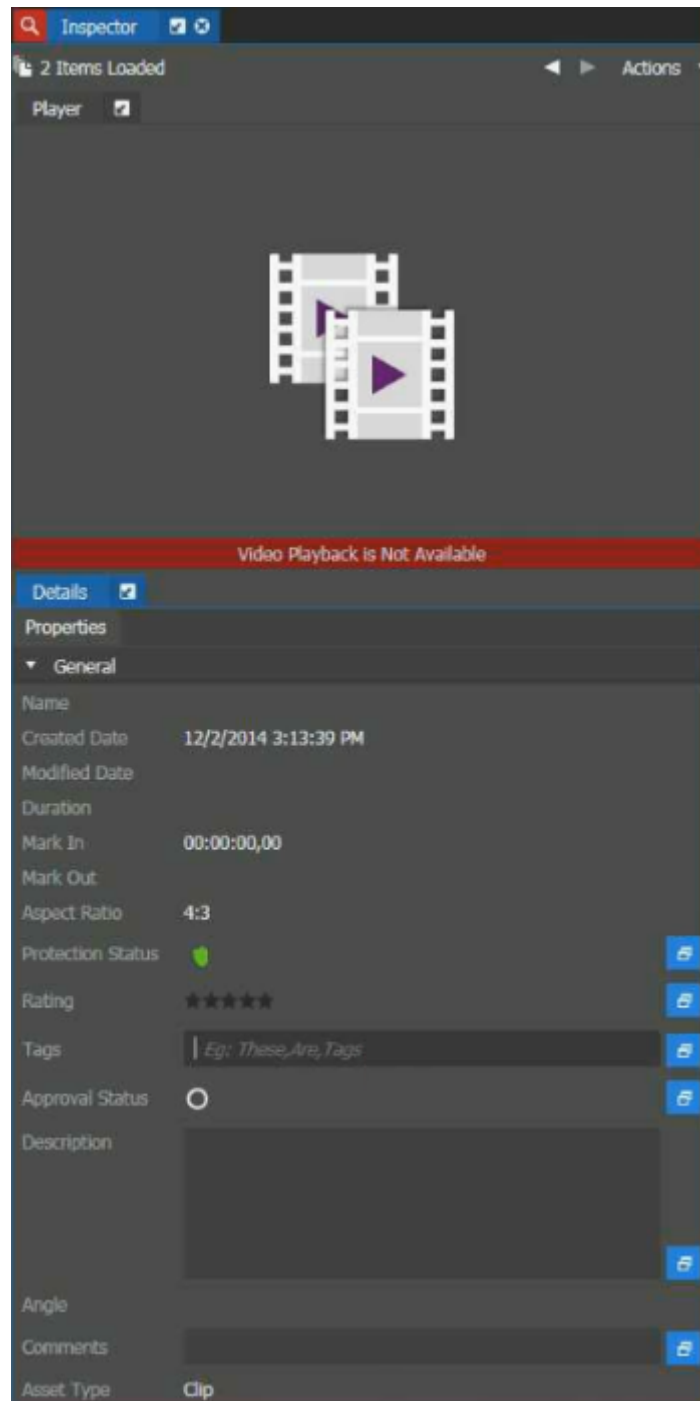
The **Load Options** dialog appears.



2. Select **Load all angles** to load all assets with associated angles.

Select the **Do not ask again** checkbox to load all angles each time you view an asset with multiple angles, if desired.

Assets load into the Inspector panel.





3. Add or modify asset metadata such as tags, description, or comments in the **General** section of the Inspector panel.

The metadata is applicable to all loaded assets with multiple angles.

If you added a description in the Inspector panel, the same description appears for all associated assets in the Asset List.


Name	Path	Description	Created Date	Modified Date	Type
asf	V:/default		12/17/2014 3:24:18 PM	1/23/2015 1:23:28 PM	Clip
NTSC_SD_DV25_...	V:/Sources		12/28/2010 11:33:30...	1/23/2015 1:24:58 PM	Clip
Clip	V:/default		11/4/2014 3:49:50 PM	1/23/2015 8:51:15 AM	Clip
Clip_1(A)	V:/default	excellent	12/2/2014 3:13:39 PM	1/23/2015 6:19:27 PM	Clip
Clip_1(B)	V:/default	excellent	12/2/2014 3:13:39 PM	1/23/2015 6:19:27 PM	Clip

4. To only add metadata to a specific asset, click the **Property Options** button  next to a specific field in the Inspector panel.

The **Property Options** button  is deselected, and the button color changes from blue to gray.


The newly added metadata is not applicable to all associated assets.

Clip_1(A)	V:/default	excellent - angle 2	12/2/2014 3:13:39 PM	1/23/2015 6:19:27 PM	Clip
Clip_1(B)	V:/default	excellent	12/2/2014 3:13:39 PM	1/23/2015 6:19:27 PM	Clip

5. Click the **Property Options** button  again if you want the metadata to be applicable to those assets with multiple angles.

Copying asset metadata

- If GV STRATUS security is enforced, your credentials must give you full permissions on bins, assets, and metadata.
- You must be assigned with the **Copy Metadata** role in GV STRATUS Control Panel.

1. Select an asset that you want to copy on the Asset List.
2. Do one of the following:
 - Press  **Ctrl + C** keys
 - Right-click and select **Copy**
3. Select another asset on the Asset List to paste the metadata into.
4. Right-click on the asset and select **Paste Metadata**.

Metadata, markers, segments, and segmentations from the copied asset now display in the destination asset.

NOTE: *Markers, segments, and segmentations are copied only if their marks are contained within the Mark In/Out values of the destination asset(s).*

Copied metadata includes:

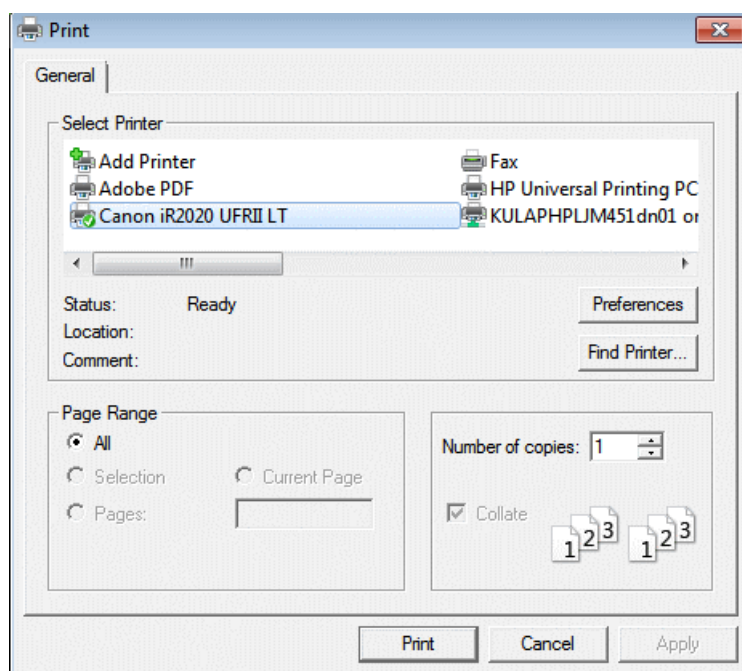
- Rating

- Description
- Extended Comments
- Linked House Number
- Keywords
- Locked status
- Metadata Expiry Date
- Custom Metadata

Printing asset metadata

1. Right-click on an asset in the Asset List and select **Print**. (🖨️ **Ctrl + P**)

The Print dialog appears.




2. Select your printer and click **Print**.

Asset metadata prints on the selected printer in the same order of appearance as in the Inspector.

NOTE: Custom metadata with Text-Unlimited fields are not included in the printout.

Using custom metadata in Inspector

You can use custom metadata fields, as configured in GV STRATUS Control Panel, to support your workflow.

1. From the Inspector panel, do the following to use custom metadata:
 - a) Open an asset in the Inspector panel.
 - b) On the Properties tab, click the **Show/Hide** button  of the **General** section.
 - c) View or modify your custom metadata as desired.

When the selected custom metadata type is unlimited text, the large metadata is not loaded with the asset in Inspector panel. Click the **Click to View** link to display metadata. You can also right-click on the metadata display and select **Expand for Editing** to edit the metadata in a larger window.

NOTE: *For Number field types, the example value displays in gray to easily distinguish numbers only metadata in the Inspector panel.*

2. From an Asset list, do the following to use custom metadata:
 - a) Right-click to select **Columns** and add the column or columns to the Asset List that correspond to your custom metadata.
 - b) Use **ALT + Click** to modify text, numbers and dates.

Related Topics

[Adding and removing columns in a list](#) on page 788

[Custom Metadata Add/Modify Field settings](#) on page 269

Viewing relationships

You can view lists of related assets, based on the type of relationship.

In the Asset List identify the asset whose relationships you want to view and do one of the following:

- Open the asset in the Inspector panel and select a tab from several relationship tabs.
- Right-click the asset and select **View Related**. A menu of relationship types is displayed. Select a relationship type. Relationships are displayed in the Asset List.

Viewing the properties of an item

You can view the properties of an item in several locations in the application.

- To view basic asset properties as a tooltip, hover the mouse pointer over an item in the Asset List panel.
- To view more asset properties, open the asset in the Inspector panel and view the General section.
- To view properties of a playlist or sequence event, right-click on the event in the Editor Panel and select **Properties**, or drag the event to the Inspector panel.

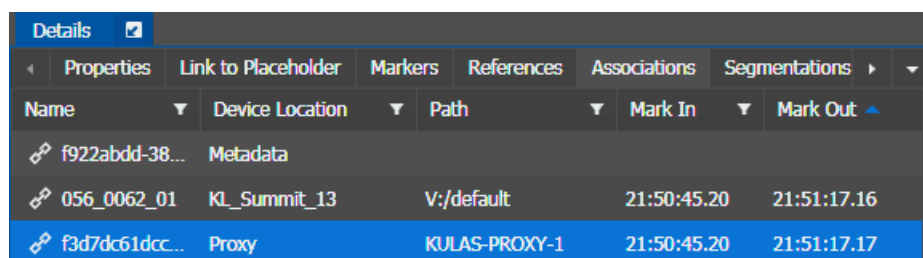
The event's properties display in the Inspector panel.

- To modify the display of properties in Tiles view, right-click on the Asset List panel, select **Tile Properties**, and reorder the top three items as desired.
- To view the properties associated with a keyword or marker, hover the mouse pointer over the symbol associated with that keyword or marker.


The thumbnail and properties associated with the keyword or marker appear as an overlay tooltip.

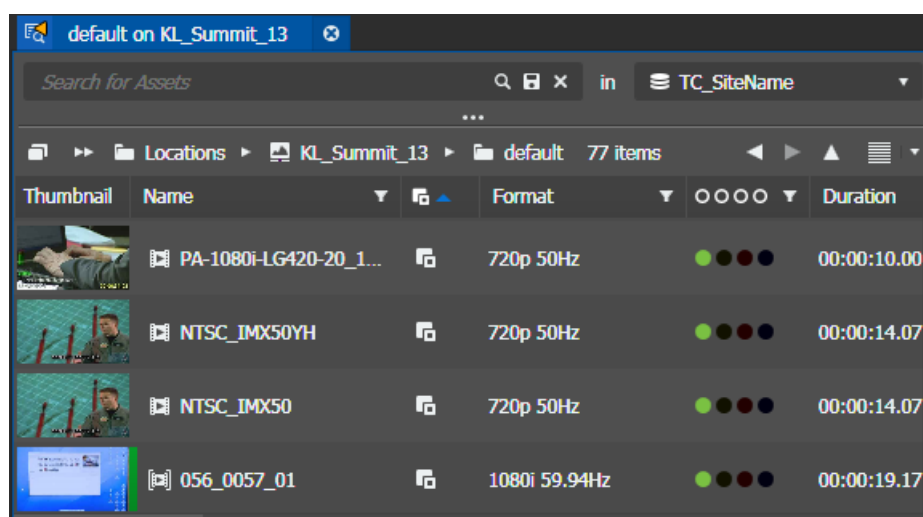
Verifying proxy association









1. To verify the proxy association of a single asset using the Inspector panel, do the following:
 - a) In the GV STRATUS application Asset List, double-click an asset.
The asset is displayed in the Inspector.
 - b) In the Details panel of the Inspector, click the **Associations** tab.
 - c) Verify that there is a row that reports **Proxy** in the **Device Location** column.



Name	Device Location	Path	Mark In	Mark Out
f922abdd-38...	Metadata			
056_0062_01	KL_Summit_13	V:/default	21:50:45.20	21:51:17.16
f3d7dc61dcc...	Proxy	KULAS-PROXY-1	21:50:45.20	21:51:17.17

2. To verify the proxy association of multiple assets in an Asset List, do the following:
 - a) Add the **Has Proxy** column to the Asset List, if it is not already added.
 - b) Identify assets with the **Proxy** asset type icon  in the column.
 - c) Sort the list on the **Has Proxy** column.



Thumbnail	Name	Format	Has Proxy	Duration
	PA-1080i-LG420-20_1...	720p 50Hz		00:00:10.00
	NTSC_IMX50YH	720p 50Hz		00:00:14.07
	NTSC_IMX50	720p 50Hz		00:00:14.07
	056_0057_01	1080i 59.94Hz		00:00:19.17

Related Topics

[Regenerating proxy](#) on page 822

[Adding and removing columns in a list](#) on page 788

[Sorting a list view](#) on page 788

Regenerating proxy

If configured in GV STRATUS Control Panel Proxy Config settings, a Render Engine automatically generates low-resolution proxy for a high-resolution asset. You can also manually regenerate the proxy for an asset.

You cannot generate proxy for a growing clip. You must allow the recording of the high-resolution asset to complete before generating proxy.

1. If the asset is currently loaded in the Inspector panel, eject it before generating proxy for it.
2. In the GV STRATUS application Asset List, right-click the asset and select **Regenerate Proxy**.

The Render Engine creates the proxy asset.

In the **Associations** tab of the Inspector, the proxy association shows as recording until the proxy has been successfully regenerated.

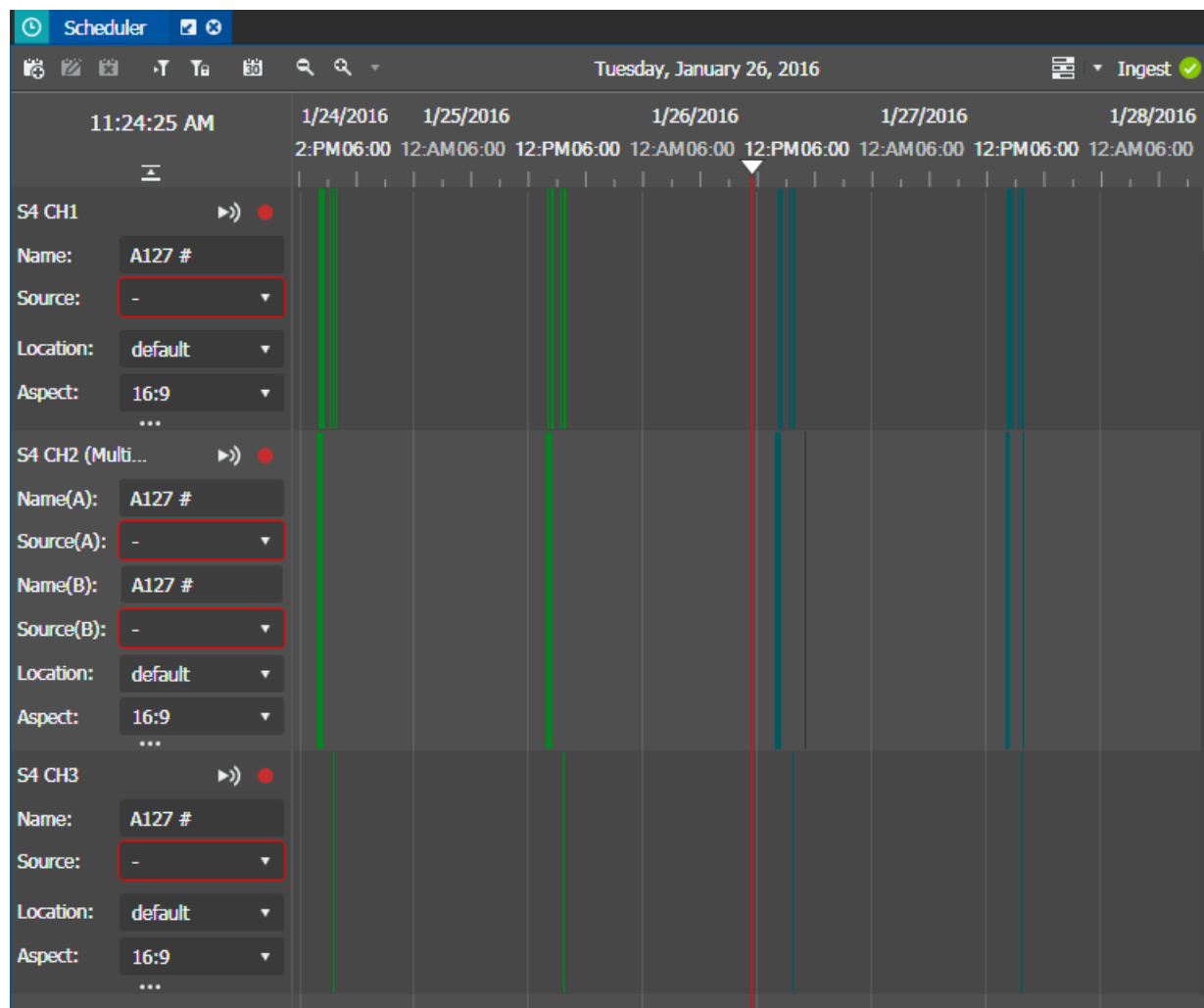
Related Topics

[Verifying proxy association](#) on page 821



Ingesting assets

The Scheduler tool

The Scheduler tool allows you to view configured channels and schedule events to be recorded for later use. The Scheduler tool appears in the application as a panel that can be accessed from the Window menu or the tools section of the Navigator panel. In the Navigator panel, the parent Scheduler tool contains all displayed channels. Channel groups under the parent Scheduler tool contain a sub-set of channels, as configured in GV STRATUS Control Panel.



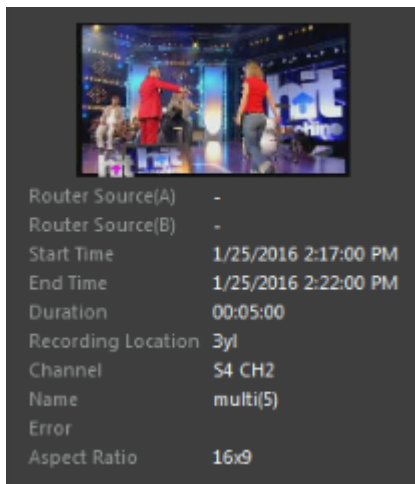
The Scheduler tool features are as follows:

- Clock — Shows current time according to the system time of the Ingest Service server. If the client PC time is in a different timezone than the server, the server time is converted to the client PC timezone.
- Timeline — Shows dates and hours to guide event scheduling.
- Available channels — Shows channels that are configured to record events.
- Scheduler toolbar — Consists of buttons for scheduling and viewing events.
- Current time indicator — Moves along the timeline according to the current time.
- Scheduled events — Shows events that have been added to the Scheduler tool.
- Ingest Service status indicator — Shows the connection status between Ingest core service and the Scheduler tool.
 -  — Connected
 -  — Disconnected

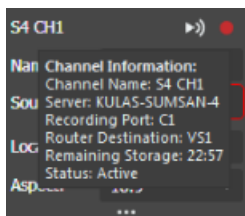
With the tool, you can schedule events to record in advance, by specifying the date, time, and duration of the recording. You can also choose whether to schedule a single event, main and backup events, recurring events, open ended events, or crash record an event.

By default, the Scheduler tool opens to the current day, date, and time according to your system time.

If you hover on an event on the Scheduler tool, a tooltip appears to show the event name, video thumbnail, router source, recording location, channel, time information, duration of the event, and error description if available.



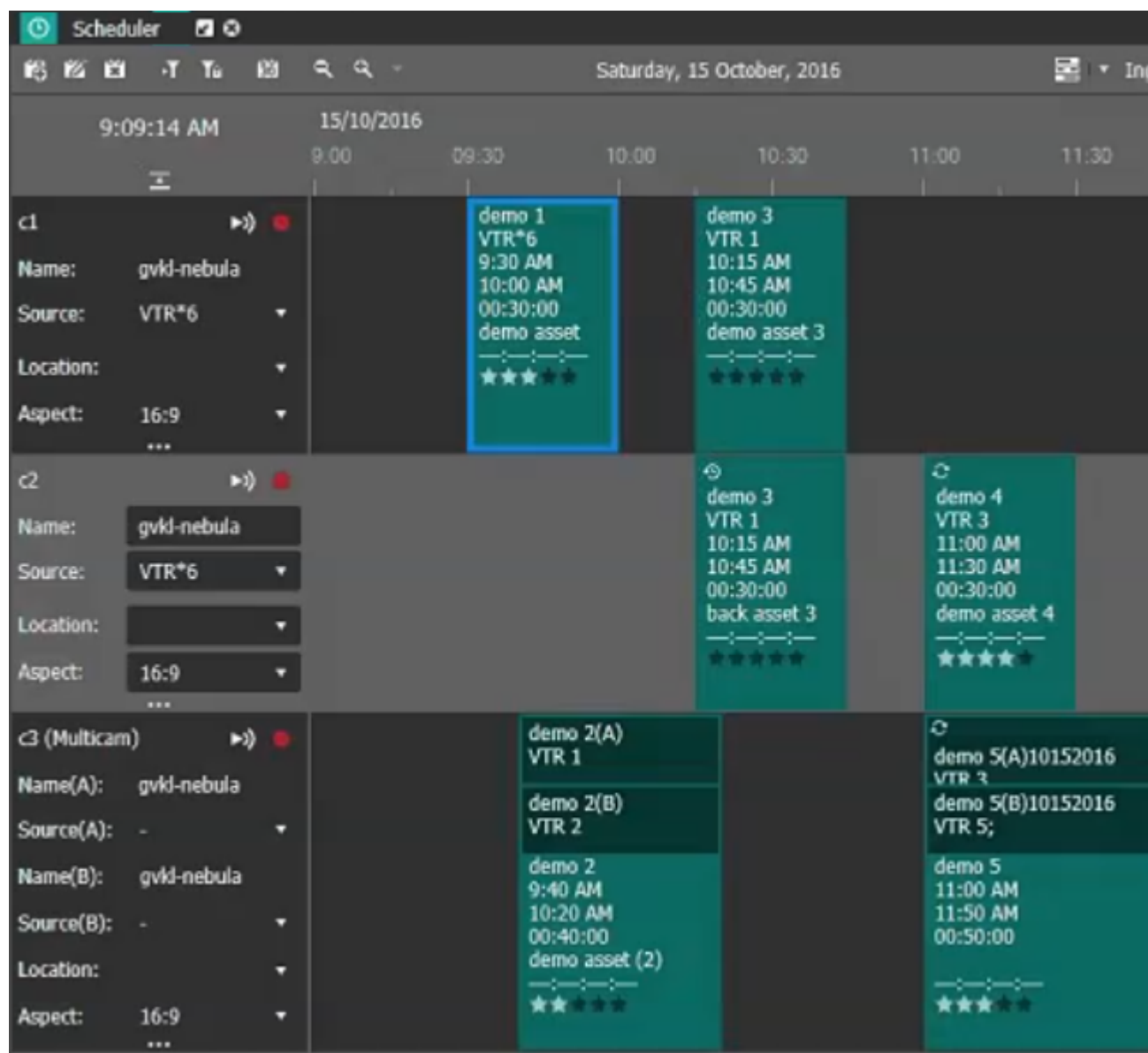
If you hover on a channel, a tooltip appears to show the channel name, server name, recording port, router destination, remaining storage and status of the channel. When the channel is down, the font color of the channel name changes from white to orange.



You can also configure a Multicam channel that can record two incoming video feeds in the Scheduler tool. An event recorded via the Multicam channel creates two assets, nominally referred to as _(A) and _(B). Since those assets are created together, the record and stop commands to the channel affect both assets simultaneously.

NOTE: Recording will not proceed if there is insufficient storage on the K2 system. The recording button is disabled when remaining storage is less than the default crash duration as set in the GV STRATUS Control Panel application.











If desired, you can configure event properties to display on the Track View timeline of the Scheduler tool. The configuration can be done on the Timeline Information tab of Ingest settings in GV STRATUS Control Panel







If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Scheduler buttons

These buttons located on the Scheduler toolbar let you perform various functions.

-  **Add Event:** Adds a scheduled event.
-  **Modify Event:** Modifies the selected event.
-  **Delete Event:** Deletes the selected event.
-  **Go to Current:** Goes to the current time of day in the timeline.
-  **Toggle Timelock:** Goes to the current time of the day in the timeline and turns on the timelock mode.
-  **Go to Date:** Goes to the current day in a calendar.
-  **Zoom In:** Zooms in the view of the timeline. The slider between **Zoom In** and **Zoom Out** also zooms the view of the timeline.
-  **Zoom Out:** Zooms out the view of the timeline. The slider between **Zoom In** and **Zoom Out** also zooms the view of the timeline.
-  **Record details toggle:** Toggles display of the record details for all channels.
-  **View Mode:** Controls the display and size of the items in a list or panel.

These buttons located on each channel window in the Scheduler let you record an event immediately.

-  **Record:** Starts recording. Toggles with Stop button.
-  **Stop:** Stops recording. Toggles with Record button.
-  **Expand:** Shows/hides settings and lists.
-  **Live Streaming Video:** Enables/disables the display of the live video stream.

About view modes

You can customize event display in the Scheduler tool. There are 6 types of view modes that can be selected as follows:

Details view

Scheduler

10:57:02 AM

S4 CH1

Name: A127 #

Source: -

Location: default

Aspect: 16:9

...

S4 CH2 (Multi...

Name(A): A127 #

Source(A): -

Name(B): A127 #

Source(B): -

Location: default

Aspect: 16:9

...







S4 CH3

Name: A127 #

Source: -

Location: default

Tuesday, January 26, 2016

Thumbnail	Name	Router Source	Router Source
	multi	-	
	multi(2)	-	
	multi(3)	-	
	single	-	
	multi(4)	-	
	single(2)	-	

Tiles view

Scheduler

10:57:35 AM

S4 CH1

Name: A127 #

Source: -

Location: default

Aspect: 16:9

S4 CH2 (Multi...

Name(A): A127 #

Source(A): -

Name(B): A127 #

Source(B): -

Location: default

Aspect: 16:9

S4 CH3

Name: A127 #

Source: -

Location: default

Thumbnail

multi

Duration 00:02:30

Router Source(A) -

Router Source(B) -

multi(2)

Duration 00:03:30

Router Source(A) -

Router Source(B) -

multi(3)

Duration 00:03:30

Router Source(A) -

Router Source(B) -

single

Duration 00:02:30

Router Source -

Start Time 1/26/2016 2:03:00 PM

multi(4)

Duration 00:05:00

Router Source(A) -

Router Source(B) -

single(2)

Duration 00:02:30

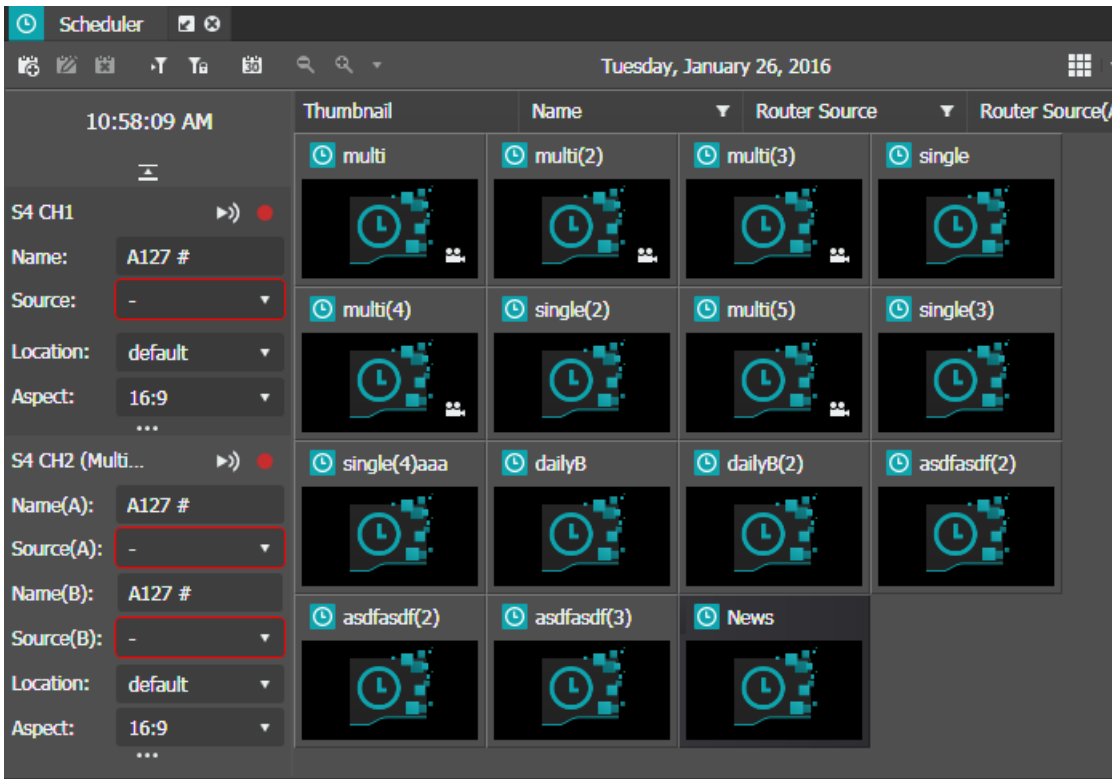
Router Source -

Start Time 1/26/2016 2:15:00 PM

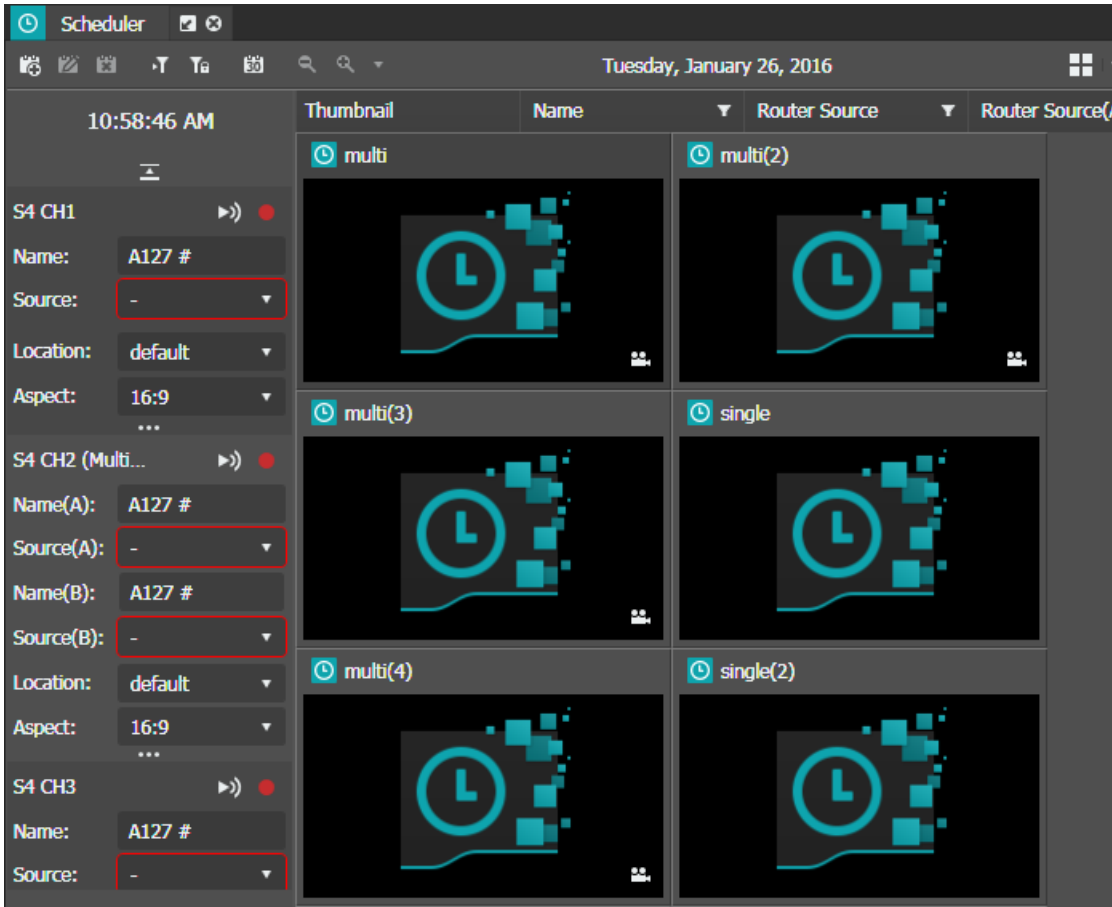
multi(5)

Duration 00:05:00

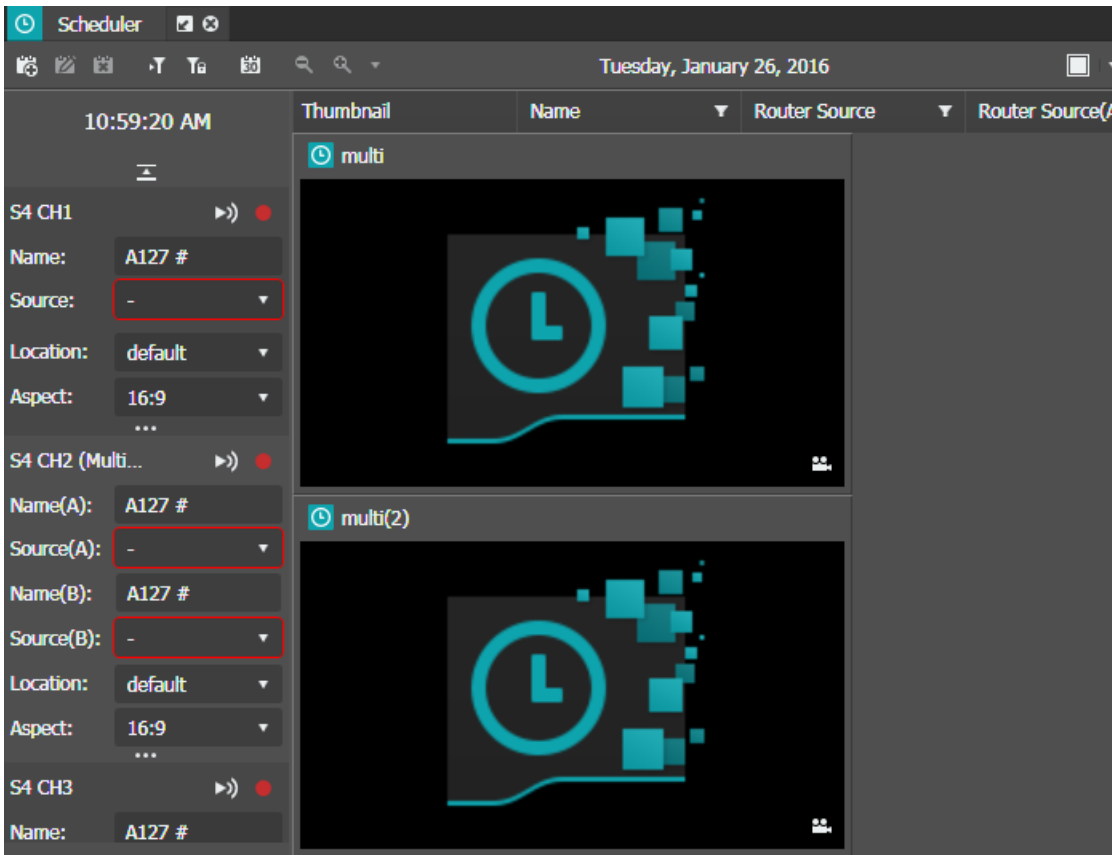
Small
Thumbnails
view



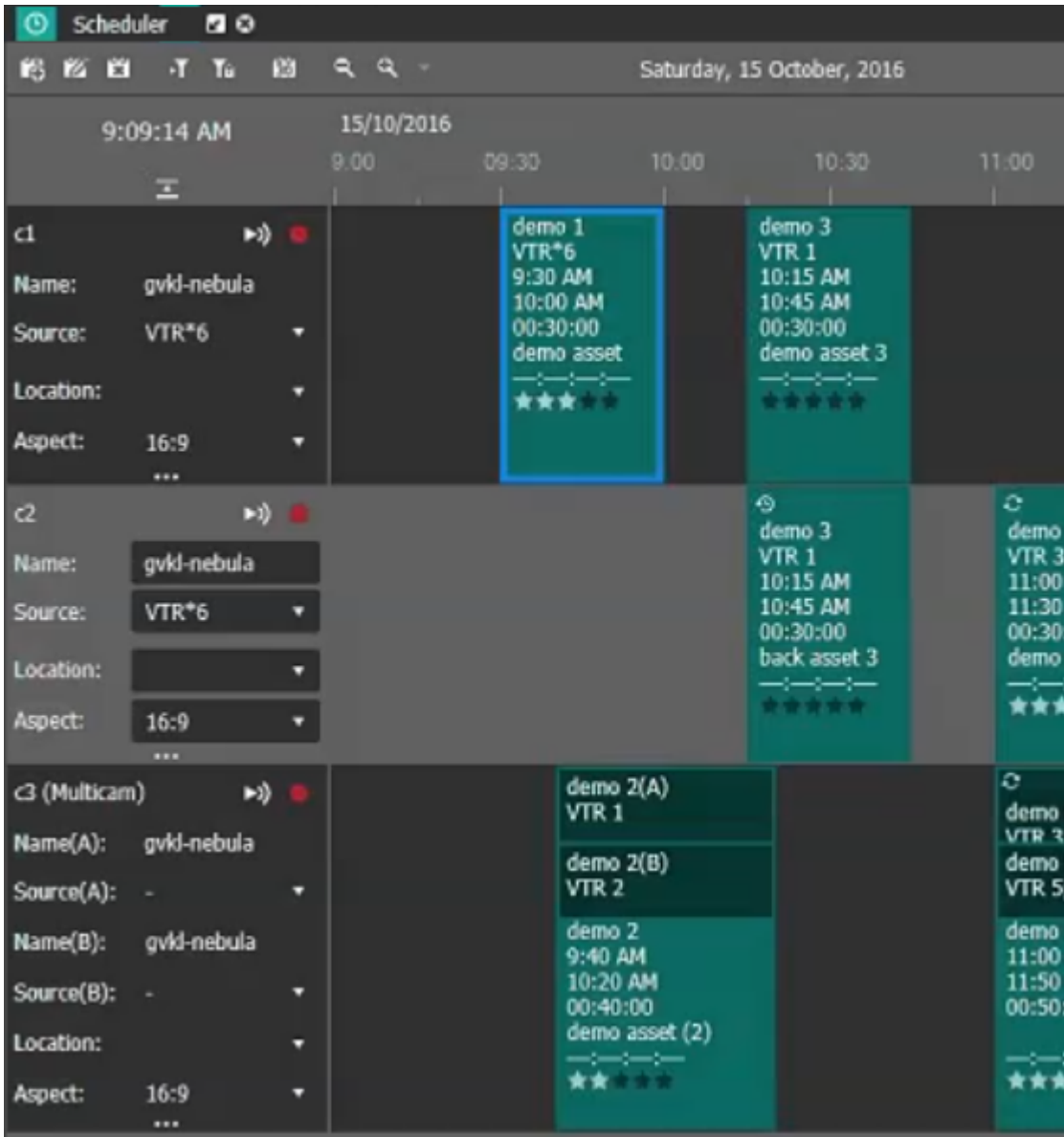
Medium
Thumbnails
view



Large
Thumbnails
view



Track view



You can configure event properties to be displayed on the Track View timeline. The configuration can be done on the Timeline Information tab of Ingest settings in GV STRATUS Control Panel

Related Topics

[Customizing the display of list items](#) on page 787

Event status colors

Each event displays in a color that identifies its status in the Scheduler.

Event Color	Event Status
Blue	READY


Event Color	Event Status
Black	RESERVED CHANNEL FOR SPECIFIC RECORDING
Yellow	CUEING
Orange	CUED
Red	RECORDING
Green	RECORDED SUCCESSFULLY
Purple	ERROR IN RECORDING

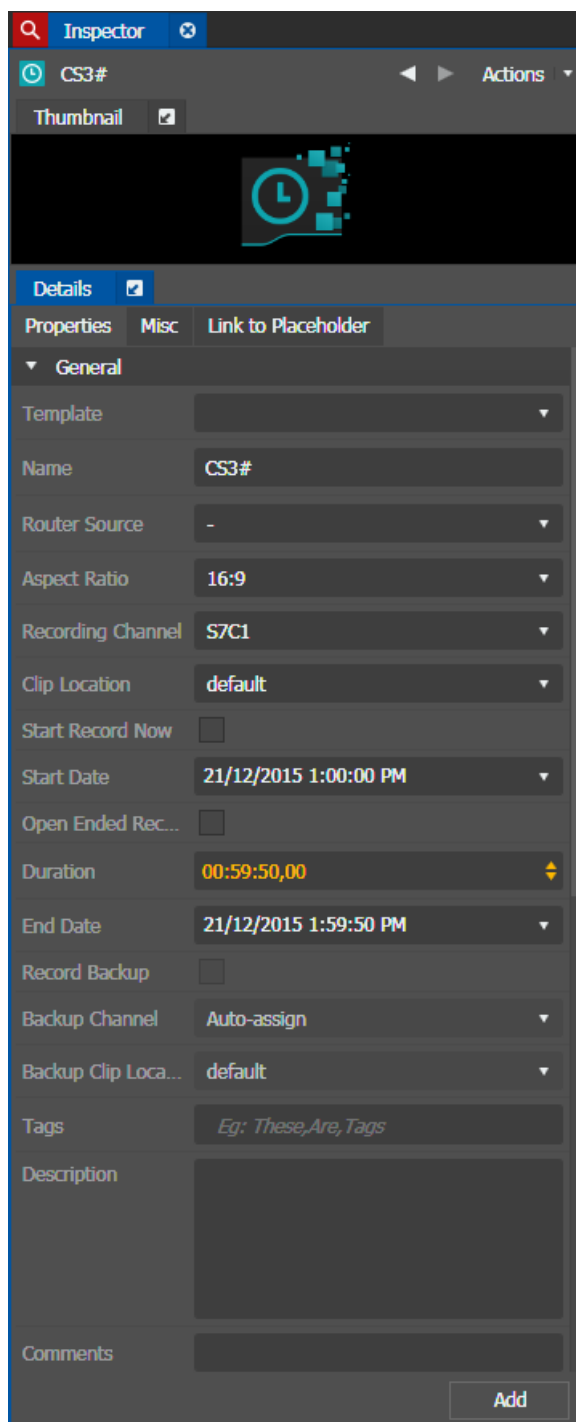
Adding an event

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.


- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

To ingest feeds, add an event in the Scheduler tool for each feed that you want to record.

1. Click the **Add Event** button.  (A)
The Inspector panel loads event properties.



The screenshot shows the 'Inspector' panel in the GV STRATUS interface. At the top, there's a search bar and a 'Thumbnail' checkbox. Below is a large area with a clock icon. The 'Details' tab is active, showing a 'Properties' section with sub-tabs: 'Properties', 'Misc', and 'Link to Placeholder'. Under 'General', various fields are listed: Template (dropdown), Name (CS3#), Router Source (-), Aspect Ratio (16:9), Recording Channel (S7C1), Clip Location (default), Start Record Now (checkbox), Start Date (21/12/2015 1:00:00 PM), Open Ended Rec... (checkbox), Duration (00:59:50,00), End Date (21/12/2015 1:59:50 PM), Record Backup (checkbox), Backup Channel (Auto-assign), Backup Clip Loca... (default), Tags (Eg: These,Are,Tags), Description (text area), and Comments (text area). An 'Add' button is at the bottom right.

 **Tip:** You can also right-click anywhere on the Scheduler's track view and select **Add Event** from the context menu. The Inspector panel automatically shows the channel and start time based on the location of your mouse on the Scheduler interface.

2. Fill in properties of your event according to the following:

- a) Template — Select a template from the drop-down list, if it's already configured.
- b) Name — Enter a name for the scheduled event.

NOTE: *If you reached the character limit, the Name field will be disabled and a red cross indicator displayed. Shorten the event name to enable the field again.*

- c) Router Source — If a router is configured as part of the system, select router source for the event from the drop-down list. If configured as a Multicam channel in GV STRATUS Control Panel, two router sources are available. If configured in the **Router | Connection** settings of the GV STRATUS Control Panel, router sources are displayed in alphabetical order.
- d) Recording Channel — Channel availability depends on the configuration in your system. You can only see and select channels that have been configured for the Scheduler tool. Make sure that the channel is not in Continuous Record mode.
- e) Clip Location — Select a record location bin for the event from the drop-down list.

If the bin has security access permissions configured, the recorded clip inherits those permissions.

- f) Start Record Now — Check this box to start recording immediately after you click the **Add** button. If you don't enter the end time of the event, the default is set to 1 hour. You can also set the default duration in the Ingest panel of the GV STRATUS Control Panel application.
- g) Start Date — Enter the date and time you want the recording to start. The default date is the current date. You can also select your start date from the calendar when you click the drop-down arrow. Enter the time using the format **hour:minutes:seconds**.

NOTE: *When scheduling two events back to back, a space of 10 seconds is required from the stop of the first record to the start of the second record. In order to compensate this, it is recommended that the default record duration reflect a stop time 10 seconds prior to the rounded duration (e.g., 00:59:50 for a 1 hour record).*

- h) Open Ended Record — Check this box if you want the recording to continue until you manually stop it. With this record, you only need to provide the start time.
- i) Duration — Enter the duration of the event. The default duration can be set in the Ingest panel of the GV STRATUS Control Panel application. The maximum duration that can be set for an event is 23:59:59.
- j) End Date — Enter the date and time you want the recording to end. You can also select your end date from the calendar when you click the drop-down arrow.
- k) Record Backup — Check this box if you want to record a backup of the feed.
- l) Backup Channel — Select a backup channel from the drop-down list.

NOTE: *You cannot select the same channel for both main and backup recordings. Backup channel is disabled when only one channel is configured for the Scheduler.*

- m) Backup Clip Location — Select a record location for the backup clip.
- n) Tags — Enter a tag, or tags for the event.
- o) Description — Enter the description of the event.
- p) Comments — Enter any comments that you have on the event.

By default, the Scheduler tool opens to the current day, date, and time according to your system time. The time of day format within the Scheduler is directly from the current time of day format of your machine.

To set the 24 hour format to your Scheduler, change the time format of your Windows client by selecting **Start | Control Panel | Clock, Language and Region**, and change the time format accordingly.

NOTE: *Changes to the Scheduler's time format can only be seen after a restart of the GV STRATUS application.*

3. You can also check other properties of the asset under the **Other** section.




4. In the **Misc** tab of the Inspector, you can select the **Recurring Event** check box if you want the scheduled event to occur more than once.
5. In the **Link to Placeholder** tab of the Inspector, you can select a placeholder if you want to link it to your event, and click the **Link** button.

The placeholder name and ID fill in to replace the name of the event, and the placeholder row color changes to light blue to signify it as Being Edited in the Assignment List tool. You can also configure the **Being Edited** status color in the **ALP** tab of user preferences settings.

NOTE: *For playout via GV STRATUS Rundown, ensure the clip record location is the same as the configured send destination in GV STRATUS Control Panel.*

6. Click the **Add** button in the Inspector panel.
The event is added to the Scheduler tool with a **Ready** status.
7. To add another event, in the Inspector panel, fill in properties and other information as in the steps earlier in this procedure, then click the **Add** button.

It is not necessary to click the **Add Event** button. 

Related Topics


[Limitations for creating and naming assets and bins](#) on page 1146


Adding an event using Quick Schedule

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

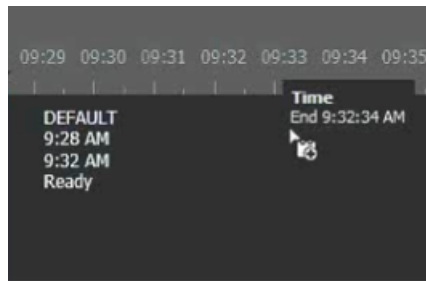
With Quick Schedule, you can add events directly on the scheduling interface.

NOTE: *Quick Schedule is only supported on the Track view mode of the Scheduler tool.*

1. Right-click on a channel timeline and select **Quick Schedule**. ( **Q**)

Once you are in the Quick Schedule mode, your mouse pointer turns into the **Add Event** icon  with time tooltip for your reference.

2. Click to select the start time, and drag your mouse to the right to select the end time.



3. Release the mouse after the end time is selected.
The event displays on the timeline of the Scheduler tool.
4. Right-click on the event, and select **Modify Event** to add other properties to the event.

The Inspector loads the event properties.

If the event is created on a Multicam channel, two router sources appear for the event in the Inspector.

5. Edit properties of the event.
6. Click the **Modify** button to commit your changes.

The event adds to the Scheduler tool with a **Ready** status.

Adding a recurring event

If you want to schedule an event to record on more than one occasion, such as every day, every week, or once a month, you can create a recurring event.

Recurring events can be scheduled on single or multi-cam channels.

Scheduling a recurring event is the same as scheduling a one-time recording except that you enter information about how the event recurs throughout time. You can schedule the event to recur up to three years in advance.

1. Add a new event.
The Inspector panel loads new event properties that need to be filled in.
2. Click on the **Misc** tab.

3. Select the **Recurring Event** check box.
The Recurring Event section opens.

The screenshot shows a software interface with a 'Details' tab selected. Under the 'Details' tab, there are three sub-tabs: 'Properties', 'Misc', and 'Link to Placeholder'. The 'Recurring Event' checkbox is checked. Below this, the 'Recurring Event' section is expanded, showing three radio button options: 'Daily', 'Weekly', and 'Monthly'. The 'Daily' option is selected, and the frequency is set to 'Every 1 day(s)'. Below this, the 'Range of Recurrence' section is visible, showing 'Start Date' as '1/26/2016' and 'End By' as '1/26/2017'.

4. Select how you want the event to recur:
 - Daily - Enter the number of days for the event to recur or select **Every Weekday**.
 - Weekly - Enter the number of weeks for the event to recur and check the boxes for the day or days you want the event to record.
 - Monthly - Select a specific date of the month or a specific day of the month to record.
5. Select the range of recurrence, by selecting a Start date, and either an End by date or an End after a certain number of occurrences.

NOTE: *If your range of recurrence includes the start or end time of the Daylight Saving Time, a dialog pops up to warn the possibility of time change in your scheduled recording.*

Click **OK** to close the dialog.

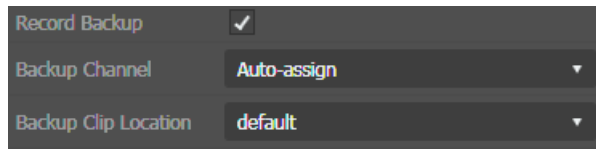
6. Click **Add**.
Recurring events appear on the Scheduler tool.

Adding a backup event

You can create a backup event simultaneously with the main event, to avoid unexpected loss of a recording. You can also set a backup event if you want to record multiple volumes with different front end K2 systems.

1. Add a new event.

2. Select the **Record Backup** checkbox.



3. Select the **Backup Channel** from the drop-down list.

Available channels are listed depending on channel setup within Ingest setting in the Control Panel application.

4. Select the **Backup Clip Location** from the drop-down list.

It is highly recommended that you select a separate bin or server for the location of the backup.

NOTE: *If the clip location for main and backup events are the same, the title of the backup event will be appended with '_b' to differentiate it from the main event.*

5. Click **Add**.

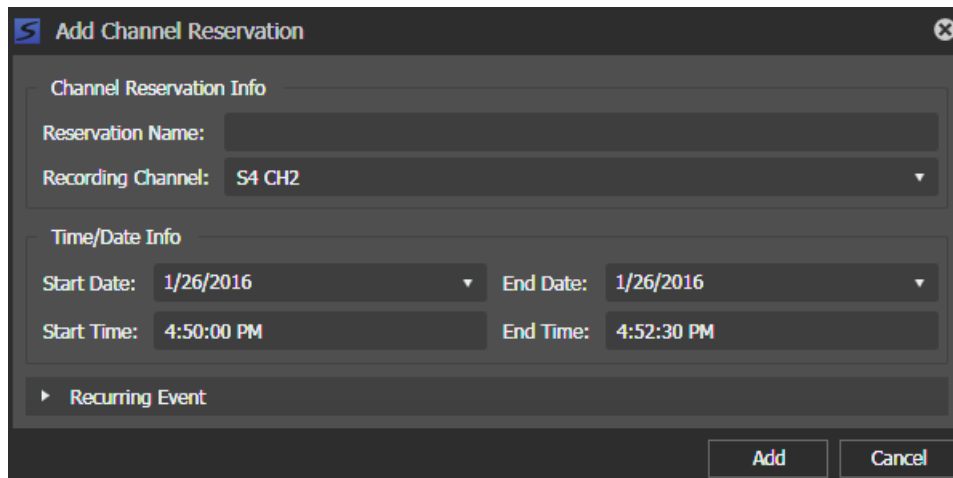
Both main and backup events appear on the Scheduler tool.

Adding a channel reservation

Channel reservation allows you to reserve a channel for future events and crash records. This ensures that the channel is reserved for a specific recording and cannot be used to schedule any other events.

1. Right-click and select **Add Channel Reservation**.

The Add Channel Reservation dialog opens.



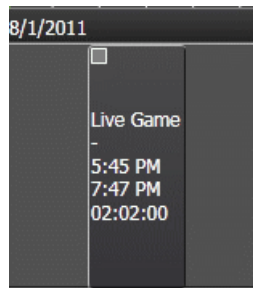
2. Specify the name of the reservation.
3. Select the recording channel from the drop-down list.
4. Select the start date, start time, end date, and end time in the Time/Date Info section.

5. Click the **Recurring Event** Show/Hide control ☐ if you want to reserve the channel for a recurring event.

Select how you want the event to recur by filling up the Recurring Event section.

6. Click **Add**.

The channel reservation appears as a black event on the Scheduler tool.



You cannot quick-schedule other events or extend other events to overlap with a channel reservation, but you are allowed to crash record.

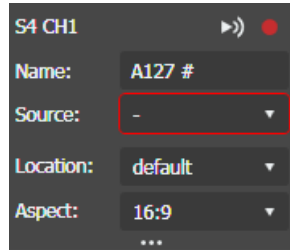
Starting a crash record event

You can crash record when you want to record an event immediately. You can also configure a default duration for all crash record events in the GV STRATUS Control Panel application.

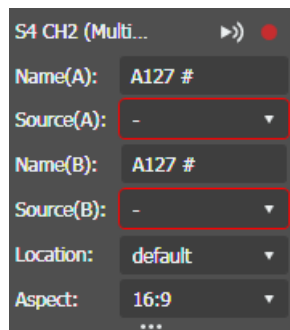
NOTE: Ensure that you have sufficient storage before proceeding with crash record. If the remaining storage on the K2 system is less than the default crash duration that was set in the GV STRATUS Control Panel, the Record button is disabled.

1. Enter name and source as follows:

- If configured as a Player/Recorder channel in GV STRATUS Control Panel, enter the name of the clip in the **Name** field and select the router source for the recording from the **Source** drop-down list, if available.




- If configured as a Multicam channel in GV STRATUS Control Panel, enter a name in both **Name** fields and select two router sources for the recording from the **Source** drop-down list, if available.




If configured in the **Router | Connection** settings of the GV STRATUS Control Panel, router sources are displayed in alphabetical order.

NOTE: If you do not enter a name prior to the crash record, the application sets a default feed name according to your Ingest settings in the GV STRATUS Control Panel with a default suffix. If a clip already exists with the same name, the application uses the next available default suffix. Once the event name is entered in the panel, the default feed name will not be used.


2. Select the bin for the clip to be recorded into from the **Location** drop-down list. If you do not enter a location prior to the crash record, the clip is recorded into the channel's default bin.
3. Select the **Aspect ratio** if recording to an SD channel.
4. Click the **Record** button. 

The event cues and begins recording. While recording, the channel and event display red.

5. If you want to change the event duration while recording, right-click on the event and select **Modify Event**, or click the **Modify Event** button.  (Ⓜ)


Event properties display in the Inspector panel.

You can also double-click the recording event to launch event properties in the Inspector.


6. Enter the new **End Time** for the event and click **Modify**.
The crash record event updates to the new end time.
7. If you want to stop the recording at any time, click the **Stop** button.  (Ⓢ)
Recording stops and the event status changes to Done.

Locating an event


To locate an event in the Scheduler tool, you can scroll along the timeline and use navigation buttons on the toolbar.

1. Scroll to the date and time of the event on the timeline if you know the starting date and time of the recording.
2. Click the **Zoom In** button.  (⬆ Up Arrow)

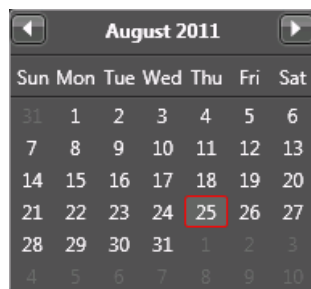
The Scheduler window zooms in to show the timeline in detail. You can keep zooming in until it shows one-minute increments on the timeline.



3. Scroll along the timeline to find your event.
4. To zoom out the Scheduler window, click the **Zoom Out** button.  (⬆ Down Arrow)

You can keep zooming out until it shows six-hour increments on the timeline.

5. You can go to the previous day (Ⓜ G) or the next day (Ⓜ H) by scrolling the timeline or pressing those shortcut keys.
6. To find other events on different dates, click the **Go to Date** button.  (Ⓜ D)

A calendar opens for you to select a specific date to view on the Scheduler. You can select a day of any month from the calendar and go to that date in the Scheduler.



7. To automatically get to the current time of the day in the Scheduler's track view mode, choose one of these steps below:
 - Click the **Go to Current** button. 
 - Click the **Toggle Timelock** button.  The timelock turns on and the current time indicator is locked to the center of the Scheduler tool. The timeline moves accordingly but the Scheduler locks the current time display at the center of the scheduling track all the time.

This is useful if you want to check the event that is currently recording.

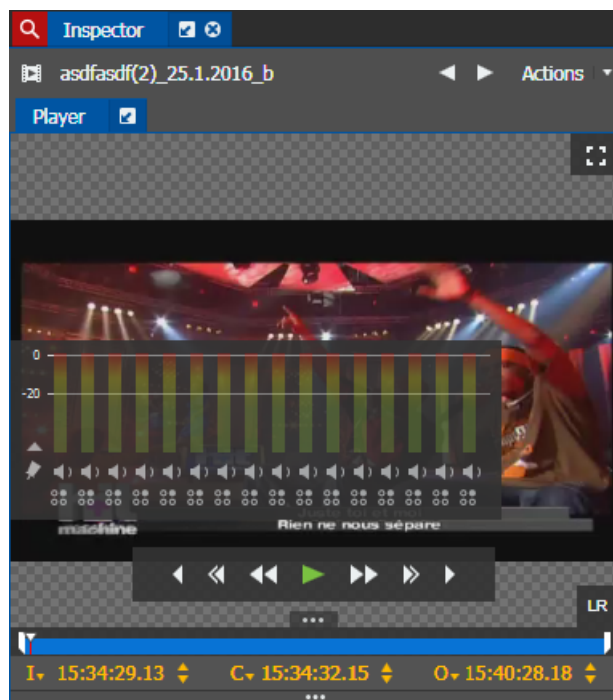
The timelock turns off if you scroll along the track again.

Previewing an event

You can preview a currently recording event or a recorded event of the Scheduler tool. The event can be previewed either on the Inspector or Source Viewer panel.

1. Select a currently recording event or a recorded event.
2. Load the event for preview as follows:
 - If a Multicam channel, double-click either of the two available clips to load it into the Inspector panel.
 - If not a Multicam channel:
 - Double-click the event to load it into the Inspector panel.
 - Drag the event and drop it into the Inspector or the Source Viewer panel.

The clip loads.



3. You can use transport control buttons within the panel to view the clip.

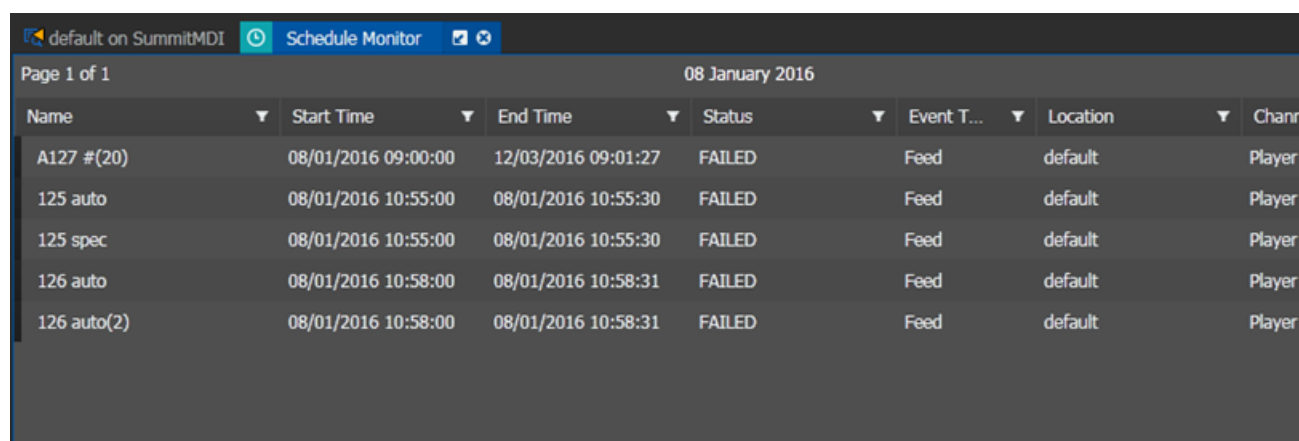
Related Topics

[Previewing a live streaming video](#) on page 781

Monitoring Ingest Schedule on a large screen

The Schedule Monitor allows you to view Ingest Schedule on a separate panel than the Scheduler. You can configure the panel to be displayed on a large screen so ingest events can easily be monitored.

To launch the Schedule Monitor panel, click the **Monitors** node in the Navigator panel and select **Schedule Monitor**.



The screenshot shows the 'Schedule Monitor' panel with a title bar containing 'default on SummitMDI', a play button, and a refresh button. Below the title bar, it says 'Page 1 of 1' and '08 January 2016'. The main area is a table with the following columns: Name, Start Time, End Time, Status, Event T..., Location, and Channr. The table contains five rows of data, all with a status of 'FAILED'.

Name	Start Time	End Time	Status	Event T...	Location	Channr
A127 #(20)	08/01/2016 09:00:00	12/03/2016 09:01:27	FAILED	Feed	default	Player
125 auto	08/01/2016 10:55:00	08/01/2016 10:55:30	FAILED	Feed	default	Player
125 spec	08/01/2016 10:55:00	08/01/2016 10:55:30	FAILED	Feed	default	Player
126 auto	08/01/2016 10:58:00	08/01/2016 10:58:31	FAILED	Feed	default	Player
126 auto(2)	08/01/2016 10:58:00	08/01/2016 10:58:31	FAILED	Feed	default	Player

Events display in multiple pages according to the size of **Schedule Monitor** panel. Each page advances automatically and the page number displays on the upper-left of the panel.

The text field and slider at the bottom of the **Schedule Monitor** panel adjusts font size.



You can configure the Schedule Monitor settings in Scheduler User Preferences.

Related Topics

[Event status colors](#) on page 832


[Configuring Scheduler User Preferences](#) on page 852

Renaming an event

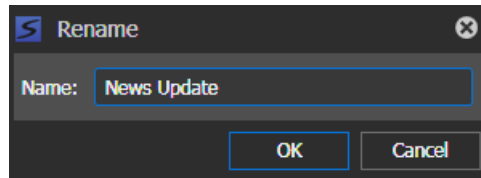
- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to change the name of an event, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

1. Select the event that you want to rename.

2. Do one of the following:

- Press the  **F2** key
- Right-click and select **Rename Event**.

The Rename dialog appears.



3. Enter the new name for the event.

The name must conform to asset and bin name limitations.

The name change must not be a change in capitalization only.

NOTE: *If you reached the character limit, the Name field will be disabled and a red cross indicator displayed. Shorten the event name to enable the field again.*

4. Click **OK**.

The event name changes to the new name.

Renaming an event via double-click is also supported subject to these conditions below:

- Double-click to rename event from Inspector is different from the right-click to modify event.
- Double-click to rename event from Inspector is only supported for single event, recurring event is not supported.
- Double-click to rename event from Inspector will only take effect on the selected event, regardless of main or backup event.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146


Modifying an event

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can modify an event by changing the event name, date, recording channel, clip location, router source, duration, timing information, adding a backup for the existing event, or linking the event to a placeholder.

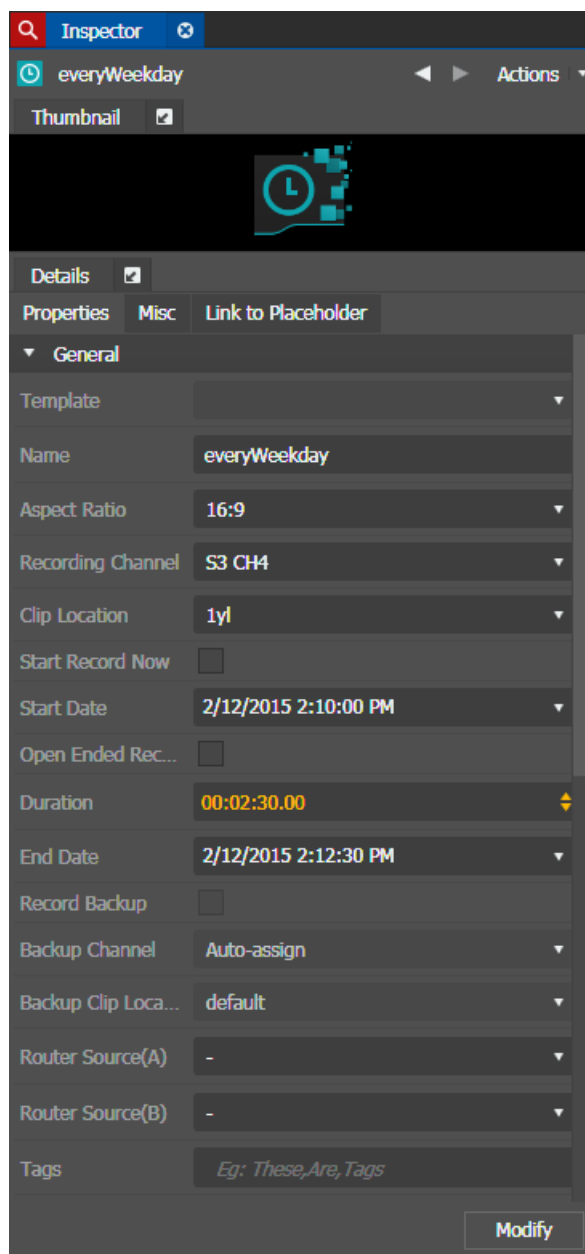
1. Select the event you want to modify on the Scheduler tool.

2. Do one of the following:

- Click the **Modify Event** button.  (M)
- Right-click and select **Modify Event**

The event opens in the Inspector panel.

NOTE: Double-clicking an event is not supported when you want to modify a scheduled event. Make sure you follow exact steps in this topic to modify event in the Inspector.



The screenshot shows the 'Inspector' panel in a software application. At the top, there's a search bar and a close button. Below that, the event name 'everyWeekday' is displayed with navigation arrows and an 'Actions' dropdown. A 'Thumbnail' section shows a clock icon. The main area is divided into tabs: 'Details' (selected), 'Properties', 'Misc', and 'Link to Placeholder'. Under the 'Details' tab, there's a 'General' section with various settings:

- Template: (dropdown)
- Name: everyWeekday
- Aspect Ratio: 16:9
- Recording Channel: S3 CH4
- Clip Location: 1yl
- Start Record Now: ☐
- Start Date: 2/12/2015 2:10:00 PM
- Open Ended Rec...: ☐
- Duration: 00:02:30.00
- End Date: 2/12/2015 2:12:30 PM
- Record Backup: ☐
- Backup Channel: Auto-assign
- Backup Clip Loca...: default
- Router Source(A): -
- Router Source(B): -
- Tags: Eg: These,Are,Tags

A 'Modify' button is located at the bottom right of the panel.

3. If the event is part of a series, a dialog box pops up asking if you want to modify this occurrence or the entire series. Select the one you want to modify and click **OK**.

Event properties display in the **Properties** tab of the Inspector.

If the event is created on a Multicam channel, two router sources appear for the event in the Inspector.

4. Modify the event properties.

NOTE: *If you reached the character limit, the Name field will be disabled and a red cross indicator displayed. Shorten the event name to enable the field again.*

5. To set as a recurring event, click on the **Misc** tab and edit event properties.
6. To link the event to a placeholder, select a placeholder on the **Link to Placeholder** tab and click the **Link** button.

NOTE: *If an event is double-clicked then linked to a placeholder, the clip will not be renamed according to the placeholder's title. Make sure that you follow exact steps in this topic to modify event in the Inspector and link to a placeholder. In addition, linking to a placeholder is not supported for recurring events.*

7. Click the **Modify** button on the **Properties** tab.

The event updates with those changes on the Scheduler tool.

Viewing and modifying metadata of events

You can view and modify metadata of an event in the Inspector panel. The inserted metadata can then be used as the search criteria to easily search assets in the Asset List panel.


1. To view or modify metadata of an event, do one of the following below:
 - Drag and drop the event into the Inspector panel.
 - Double-click the event.


The event metadata loads into the Inspector panel.

2. On the **Properties** tab, you can view or modify metadata of the event.

If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions. You can only view metadata with read permissions, and modify metadata with write permissions. If read or write permissions are denied, your metadata fields will be disabled.

You can also change the order of metadata display via **Metadata | Inspector Sections** in the GV STRATUS Control Panel. However, it is only applicable to **Tag, Comment, Description** and custom metadata.

3. To lock the status of the event, click the **Unprotected** button. 

The event is now protected. To unprotect, click the **Protected** button. 

4. To add a star rating, click the star or stars next to Rating.

When you add a star, it retains the color fill even when the mouse is no longer hovering over it.

5. To view list of placeholders and related assets, see other tabs of the Inspector panel.

Related Topics

[Viewing relationships](#) on page 820

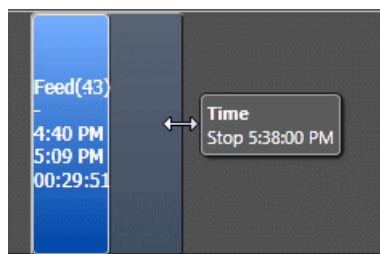
[Verifying proxy association](#) on page 821

Extending an event

You can extend the start and end time of an event on the scheduling interface itself.

NOTE: *This feature is only supported in the Scheduler's track view mode.*

1. Select the event that you want to extend within the Scheduler tool.
2. Point your mouse at the edge of the event so that the mouse pointer turns into a double-sided arrow.
3. Click and drag to extend the start or end time of the event.



You can see the time tooltip and event shadow indicating the time change.

4. Release your mouse at the new time.

A dialog box opens for you to confirm the change.

5. Click **Yes**.

The Scheduler tool updates the event to a new start time or end time.

Moving an event

You can move a scheduled event within the same channel or to a different channel. This is useful when the current channel is not available or another event needs to be scheduled into the channel at the same time.

NOTE: *This feature is only supported in the Scheduler's track view mode.*

1. Select the event you want to move on the Scheduler tool.
2. Press the **Ctrl** button and drag the event to another time or another channel.

Once you drag the event, a tooltip appears to help you decide the start time of the event.

3. Drop the event to the new location and release the **Ctrl** button.

A dialog box opens for you to confirm the move of the event.

4. Click **Yes**.

The Scheduler tool updates the event change.



Deleting an event

You can delete events that have been scheduled if you need to.

1. Select an event or multiple events that you want to delete.

To select multiple events, hold the **Shift** key down and select all events between two selected events; or hold the **Ctrl** key down and select events randomly.

2. Do one of the following:



- Click the **Delete Event** button.  ( **Delete**)
- Press the **Delete** key on your keyboard.
- Right-click on the event and select **Delete** from the context menu.

3. When prompted **Delete this event?**, click **Yes**.

Events are deleted from the tool.

Deleting a recurring event

When you want to delete a recurring event, you can choose either to delete a single occurrence of the recurring event or the whole series.

1. Select the recurring event that you want to delete.
2. Click the **Delete Event** button.  ( **Delete**)
3. When prompted **Do you want to delete this occurrence or the entire series?**, select the option that you want.
4. Click **OK**.

The recurring event is deleted from the Scheduler tool.

Creating a template

A template saves time by storing information that can be used for future events.

A template can be created in two ways:

- Create a template from an existing event
- Create a template from the user preferences setting

Saving event as a template

You can save an existing event as a template in the Scheduler tool.

1. Select the event you want to use as a template.
2. Right-click and select **Save As Template**.

The Add Template dialog opens.

3. Fill in the information that you want included in the template.

- a) Template — Enter the name of the template.
 - b) Clip Title — Enter a different clip title if needed. By default, the clip title of the selected event is automatically entered in this field.
 - c) Router Source — Select a different router source to record from in the drop-down list if needed. By default, the router source of the selected event is automatically entered in this field.
 - d) Aspect ratio — Select the aspect ratio if recording to an SD channel.
 - e) Recording Channel — Select a different channel than the one automatically entered from the selected event if needed.
 - f) Clip Location — Select a different record location than the one automatically entered from the selected event if needed.
 - g) Record Backup — Check the box if you want to record backup of an event as part of the event template. Select the backup channel and clip location from the drop-down lists.
 - h) Start Record Now — Check this box to save the crash record attribute in the template.
 - i) Open Ended Record — Check this box to save the open ended record attribute in the template.
 - j) Make Public — Check this box if you want the template to be available to everyone.
 - k) Save as Default Template for Recording Channel: — Check this box if you want to assign the template as a default template for the particular channel. This allows users to crash record easily and saves time by not having to fill up details of the event.
4. Click **Add** to save the template.

NOTE: *You cannot create a template from a channel reservation, but only from feed events on the Scheduler tool.*

The template is available for you, and other users within your broadcast operation if you set it as a public template. You can select it within the Template drop-down list when you add an event.

Configuring Scheduler User Preferences

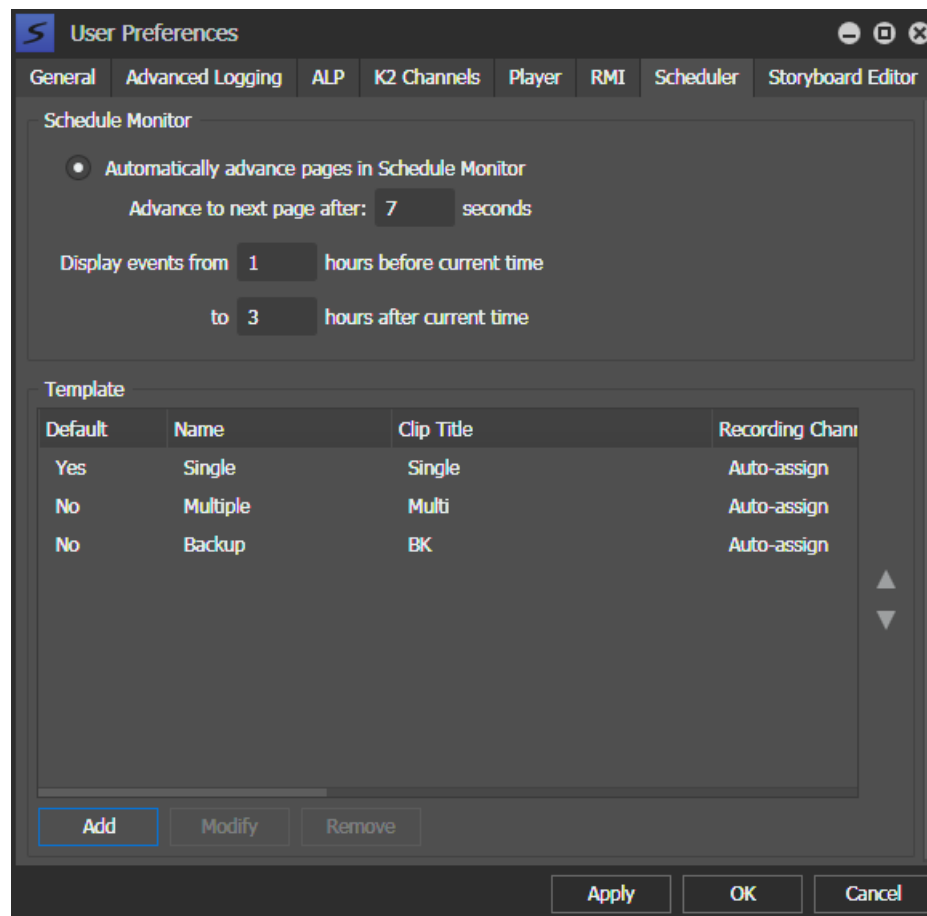
You can configure Schedule Monitor settings and create an event template within the user preferences window.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. To configure Scheduler user preferences, select the **Scheduler** tab.



3. To configure Schedule Monitor settings, do the following:
 - a) If you want Schedule Monitor pages to change automatically, select **Automatically advance pages in Schedule Monitor**.
 - b) Enter the number of seconds before advancing to the next page.
 - c) Enter the desired number of hours before and after the current time for event display in the Schedule Monitor.

NOTE: When setting the number of hours before and after the current time, do note that all the events will be kept in memory. Set the hours to the minimum viable value for your system environment.

Ingest events display in the Schedule Monitor according to selected settings.

4. To create a template, click **Add**.
The Add Template dialog opens.
5. Fill in the template information in the Add Template dialog.

You can also select the check box to make the template public and set a default template for the selected recording channel.

6. Click **Add** to save the template.

The information entered appears on the Scheduler template list in the user preferences dialog.

You can also select the template when adding or modifying events in the Scheduler.

7. To apply a change and continue editing user preferences settings, click **Apply**.
8. To accept any changes and close the dialog box, click **OK**.

The dialog box closes.

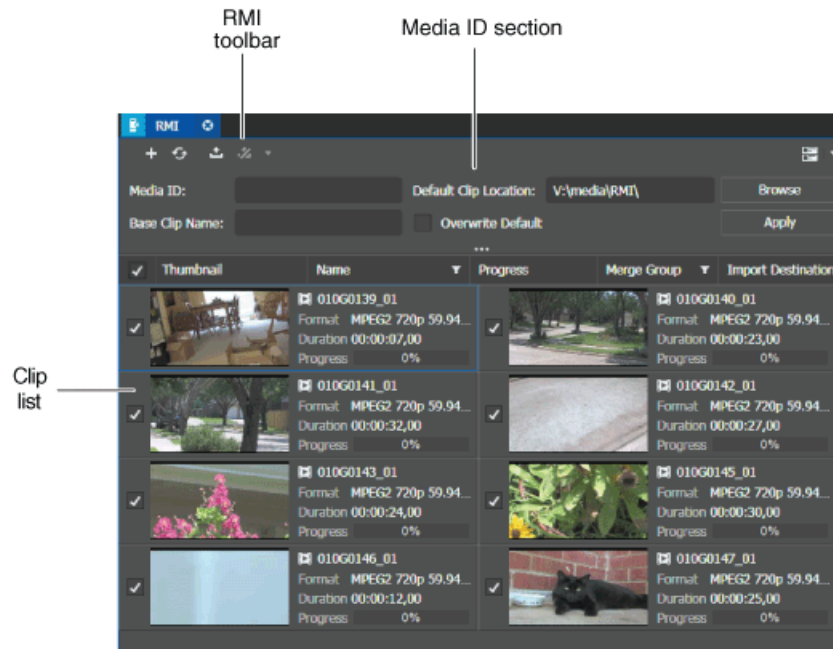
If you need to modify or remove a template, you can also do so from the user preferences window.

Related Topics

[Monitoring Ingest Schedule on a large screen](#) on page 845

The RMI tool

RMI is the acronym for Removable Media Interface. It is the tool that populates and ingests files from multiple removable media devices such as P2 and XDCAM. The RMI tool requires a GV STRATUS client with access to high-resolution assets. The Removable Media Interface (RMI) allows you to populate and ingest files from multiple removable media devices. In the GV STRATUS application, RMI appears as a tool in the Navigator panel. The RMI tool allows you to populate files from the Panasonic P2, Sony XDCAM, Sony XDCAM EX, and JVC removable media devices.



RMI panel features are as follows:

- RMI toolbar — Consists of buttons for adding removable media, populating clip list, and importing clips.
- Clip list — Populates the clip list once removable drive is detected.
- Media ID section — Allows you to add Media ID, base clip name, overwrite default clip name, and change the default import location.

Standard Asset List features such as filter list, sort list, asset tooltip, and customization of **View Mode** are available in the RMI tool.

You can also drag and drop clips within the list to change the order of the clip list.

If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, and keywords.

RMI format specifications

The following clip format specifications apply to the RMI.

Removable Media	Clip Format
Panasonic	DV25, DV50, DV100, AVC-I 50, AVC-I 100
Sony	XDCAM SD, XDCAM HD, XDCAM EX SD, XDCAM EX HD, XDCAM MXF on SxS, XAVC
JVC	XDCAM EX


Related Topics


[Formats supported for import and export](#) on page 1148


RMI buttons

These buttons located on the RMI panel let you perform various functions.


 **Select All:** Selects or deselects all items in the RMI list.

 **Media ID:** Opens or closes the Media ID section.

 **Add Media:** Adds media to the RMI tool.

 **Refresh:** Refreshes all clips in the RMI list.

 **Import:** Imports selected media to the assigned bin.

 **Cancel Import:** Cancels the import media process.

Configuring RMI User Preferences

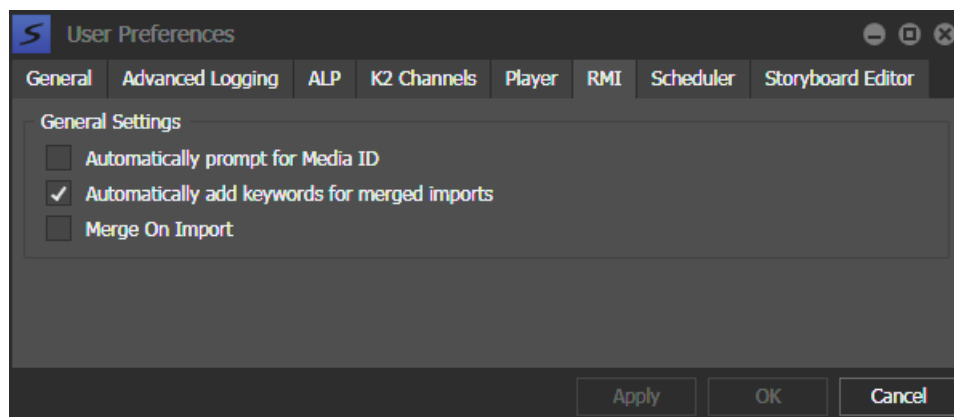
You can configure RMI settings within the user settings preferences window.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. To configure RMI user preferences, select the **RMI** tab.



3. Do the following:
 - To launch the Media ID section automatically when a new removable device is detected, select the **Automatically prompt for Media ID** checkbox.
 - To insert keywords automatically during merged imports, select the **Automatically add keywords for merged imports** checkbox.
 - To always merge clips during import, select the **Merge On Import** checkbox. This makes RMI merges multiple clips into a single clip during every import.
 4. To apply a change and continue editing user preferences settings, click **Apply**.
 5. To accept any changes and close the dialog box, click **OK**.
- The dialog box closes.

Accessing media

Removable media devices are automatically detected when attached to the system or mapped to a network drive. The RMI tool requires one of the following types of GV STRATUS clients:

- Low-resolution (proxy) client PC with CIFS mount access to K2 storage.
- High-resolution client PC on K2 media (iSCSI) network, which requires the GV STRATUS high resolution license.

Once the RMI tool detects specific clip formats, it populates the list in the RMI panel.

Media detection modes are as follows:

- Active clip detection mode — When you launch the RMI panel, the application checks the folder structure on all the windows mapped drives from A to Z that it detects. Once the application detects a removable media folder structure, the application locates all clips in that drive and populates the clip list to be shown on the panel.
- Passive clip detection mode — When you introduce a new drive to the system, the application checks whether the new drive has a removable media folder structure. If it does, the application locates all clips contained in the new drive and populates the clip list.

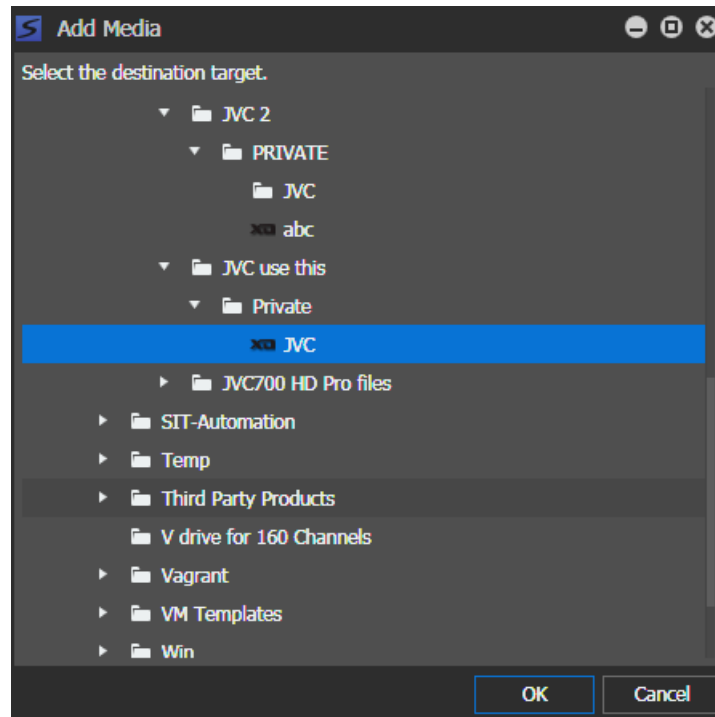
The application also monitors the drive for media removal. Once the removable media is ejected, the clip list is cleared from the RMI panel.

Adding media

You can browse folders to locate media from removable media devices and load those media into the RMI tool.

1. Click the **Add Media** button. 

The Add Media dialog box opens.



2. Browse folders to locate media from removable media devices.

Supported folder structures such as P2, XDCAM, and XDCAM EX can be identified from their folder logo as shown above.

When GV STRATUS security is enforced, you must have write permissions to the destination.

3. Select the removable media folder.
4. Click **OK**.

Clips from the removable media folder appear in the RMI tool.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

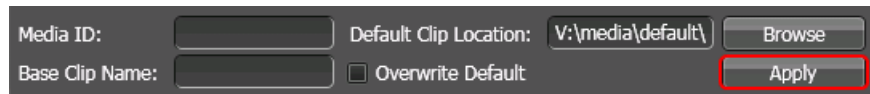
Adding a media ID

You can add a media ID to clips on the RMI to identify clips for your broadcast easily.

1. Click the **Media ID** button. 

The Media ID section opens.

NOTE: *The Media ID section also opens automatically when a new removable device is detected, if the **Automatically prompt for Media ID** checkbox is selected in the user preferences window.*



2. Enter the Media ID to identify clips from each removable device.
3. Enter a default clip name in the **Base Clip Name** field. The application sets the base clip name with a default suffix for every clip populated in the RMI panel. If you don't enter a base clip name, the application uses original clip names from the removable device.

NOTE: *The base clip name will only overwrite names that have not been previously altered. For instance, if a photographer overrides the default clip name on the camera itself, RMI will not overwrite that name. However, selecting **Overwrite Default** overrides all default clip names.*

4. Change the **Default Clip Location**, if you want to import clips to a different location.
You can click **Browse** to search for other locations in your K2 Summit system.
When GV STRATUS security is enforced, you must have write permissions to the destination.
5. Check the **Overwrite Default** box if you want the base clip name to overwrite original clip names.
6. Click the **Apply** button.

The Media ID section closes.

The RMI updates according to details entered in the Media ID section.

Previewing a clip

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.

Clip previews allow you to easily select, deselect and decide what to import from the RMI tool. You can preview clips using the Inspector and Source Viewer panel.

1. Select a clip that you want to preview from the RMI list.

2. Do one of the following below:

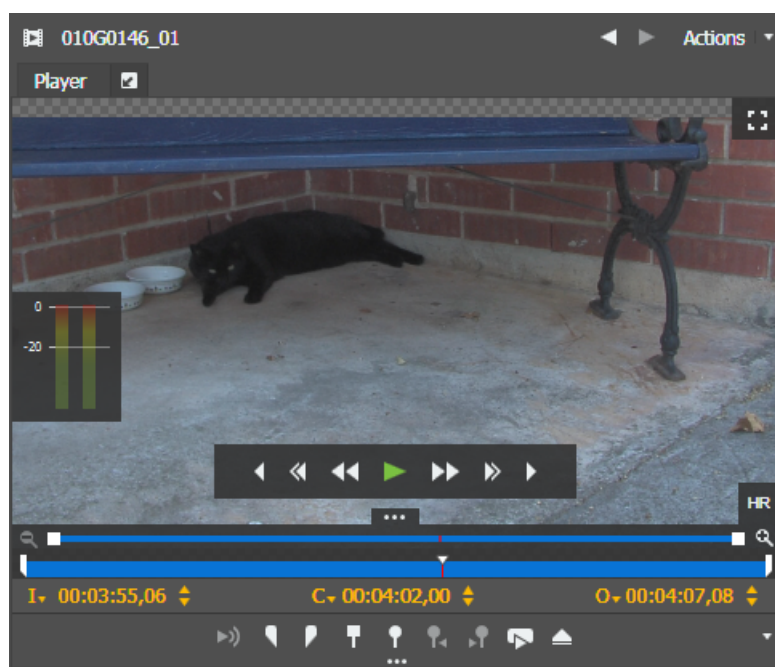
- Double-click on the clip.

The clip loads into the Inspector panel.

- Right-click and select **Preview Highlighted Clips**.

The clip loads into the Source Viewer panel.

If you have previously launched both the Inspector and Source Viewer, you can see the clip loads into both panels.



NOTE: You can also select multiple clips and preview them, but only if they are of the same video and compression format.

3. Click the **Play** button. 

You can navigate through the preview using transport control buttons on the Inspector and Source Viewer panels. If you are previewing multiple RMI clips, each clip is indicated by a symbol above the scrub bar.

You can also view markers and keywords on the clip. Marker permissions must be set to Allow on the **Security** tab of the Inspector to create, update, or delete markers and keywords.

Editing clip properties

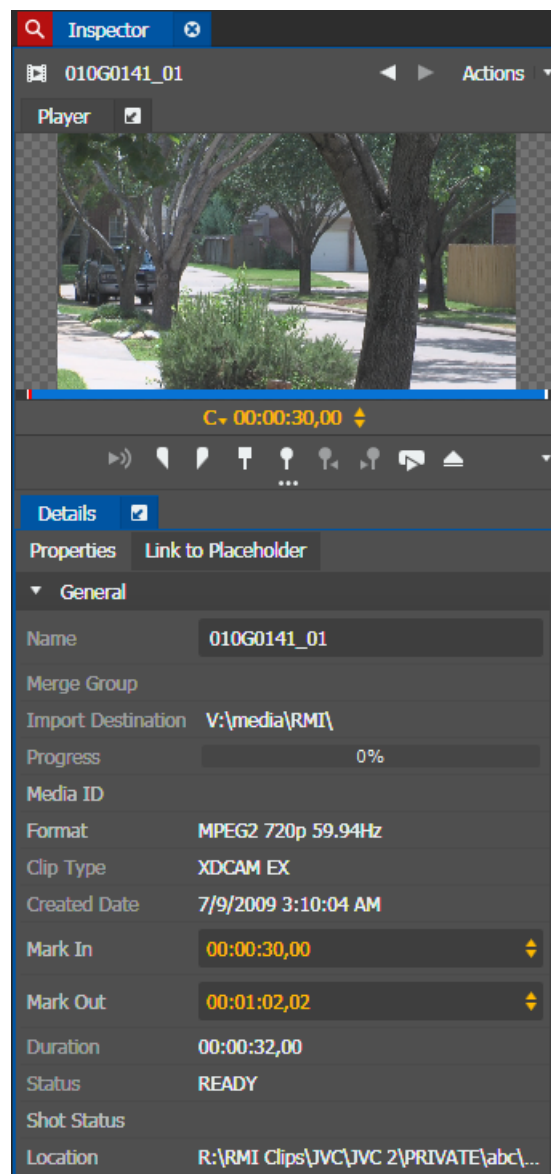
If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions. You can only view metadata with read permissions, and modify metadata with write permissions. If read or write permissions are denied, your metadata fields will be disabled.

You can edit clip properties within the RMI tool.

1. Double-click on a clip in the RMI list.

The clip loads and its properties display in the Inspector panel.

2. You can edit the clip name in the **General** section.



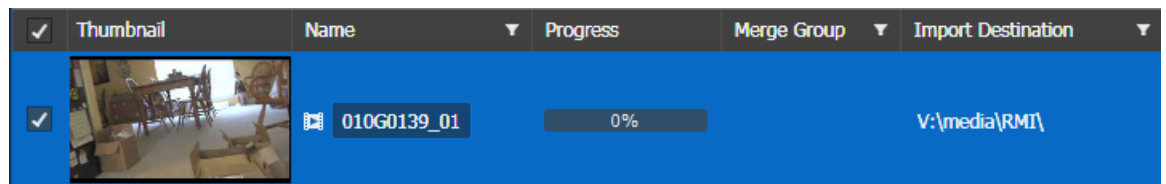
3. You can edit mark in and mark out points in the Inspector.

If you have metadata mapping configured for assets from the removable media, you can also edit the custom metadata.

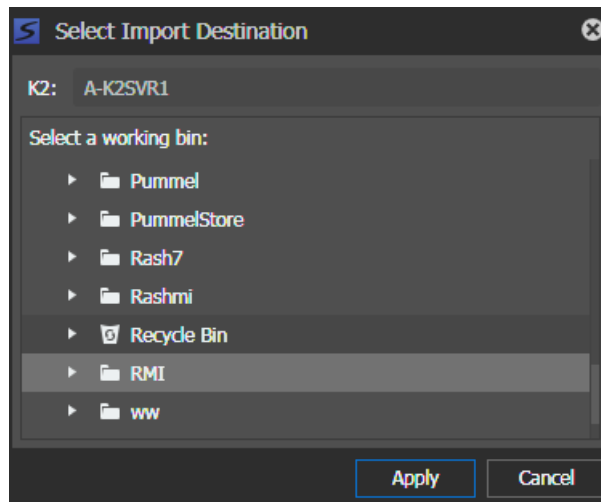
NOTE: *You must have full read and write permissions in order to modify custom metadata in the Inspector.*

4. In the **Other** section, you can only view properties of the clip.
5. To just rename the clip title on the RMI panel; right-click on the clip, and select **Rename**.

The name of the clip becomes editable and you can rename the clip on the panel itself.



6. To change the import destination of a clip; right-click on the clip, select **Modify Location**, and choose a new import destination.



When GV STRATUS security is enforced, you must have write permissions to the destination.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

[Metadata Mapping Add/Modify Field settings](#) on page 274

[Permissions settings](#) on page 271

Linking clip to a placeholder

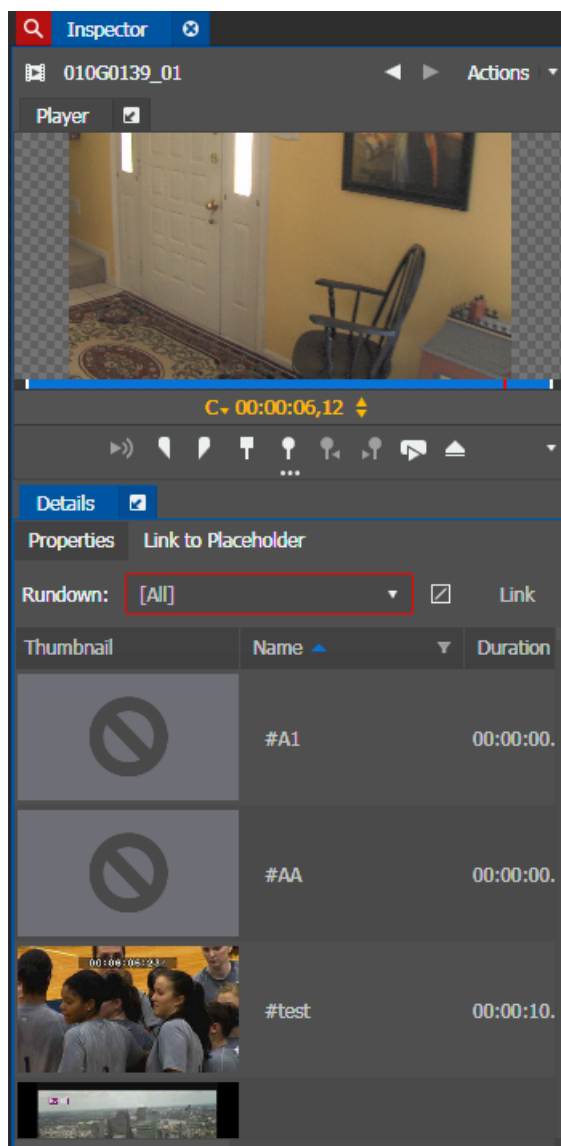
- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can link a clip to a placeholder prior to import.

NOTE: *For playout, make sure the clip import destination is the same as the playout location.*

1. Double-click on a clip.

The clip properties display in the Inspector.



2. In the **Link To Placeholder** tab, click the **Missing Placeholders Only** button ☒ to only display placeholders with missing clips.
3. Select a placeholder to link the clip to.
4. Click the **Link** button.

The placeholder name and ID filled in to replace the previous name of the clip. The clip is now associated with the placeholder, and the placeholder is categorized as being edited in the Assignment List.

After the clip is imported, the placeholder status in the Assignment List changes to **READY** and the duration is updated.

Merging clips into group

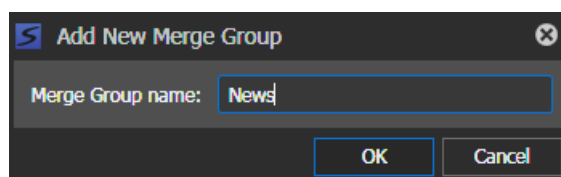
You can create groups and merge clips into a group before importing. This allows operators to create groups of clips, name them, and then import them without having to repeat multiple imports separately.

1. Highlight clips that you want to merge into a group.
2. Right-click and select **Add to Merge Group**.

You can choose to create a new group or use existing group names from the context menu.

If the **Merge On Import** option is selected in the RMI User Preferences settings, all clips will be merged into a single clip on every import.

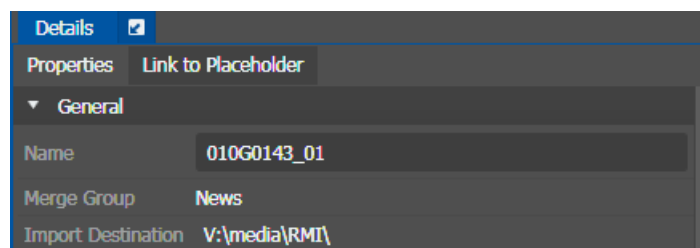
3. If you want to create a new group, select **Add New Merge Group** and enter the group name.



If the **Automatically add keywords for merged imports** option is selected in the RMI User Preferences settings, keywords will be added automatically to merged imports. Marker permissions must be set to Allow for keywords to be added successfully. Without full permissions, no keywords will be added to merged assets.

4. Click **OK**.

The merge group name that you selected appears in the Merge Group property of each clip. You can view the property in the Inspector panel.



The merge group name will become the name of the imported clip once the import process is completed.

If you wish to remove clips from the group, right-click on those clips and select **Remove from Merge Group**.





Related Topics

[Configuring RMI User Preferences](#) on page 855

Trimming a clip

With the RMI tool, you can trim a clip prior to import. To use the Trim operation, you must be logged on with a user account to which the Trim Rights role is assigned. If the role is not assigned, the Trim operation is not available.

NOTE: Trimming is only supported with individual clips.

1. On the RMI list, select the clip that you want to trim.
2. Drag the clip from the RMI tool and drop it into the Inspector.
3. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  ( I)
4. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  ( O)

Trim Asset is enabled when the asset has a mark-in or mark-out point. It is disabled if the asset does not have a mark-in or mark-out point.

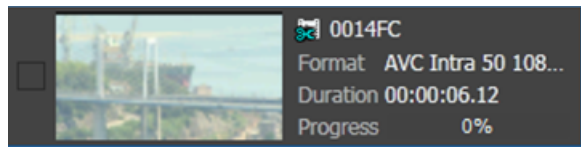
NOTE: If a clip is a part of Dyno record train sequence, Mark In and Mark Out points should not be set beyond the limit of the guard band, as configured for the record train sequence.

5. Click the **Actions** drop-down arrow and select **Trim Asset**.

The **Confirm Trim** dialog opens.

6. Click **Trim** to trim the clip.

You can see the new duration and the scissor icon within the RMI list to signify that it is a trimmed clip.




If you eject or reinsert the disk, mark points are lost.

Importing clips

- RMI settings must be configured in the GV STRATUS Control Panel.
- If GV STRATUS security is enforced, you must have full read and write permissions to the destination.

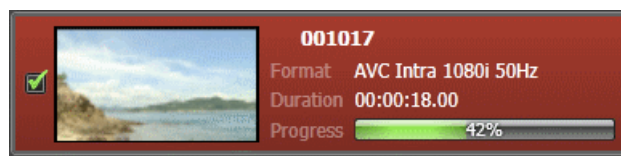
- If quota is configured on the destination bin, ensure you have enough disk space before importing clips.
- For RMI import with metadata mapping, you must have full read and write permissions to the mapped custom metadata.

1. Check the box next to each clip that you want to import.

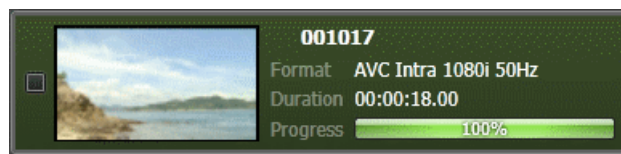
You can also check the **Select All** button  on the RMI toolbar to select all clips in the list.

2. Click the **Import** button. 

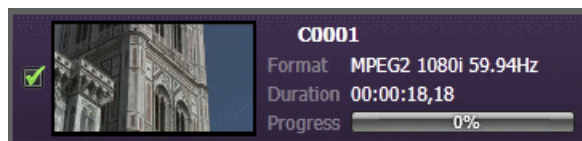
If GV STRATUS security is enforced, the button is disabled if you do not have write permissions to the destination.



While the import proceeds, you can see the clip row turns red, the progress bar grows, and the percentage increases. Once the import is complete, the clip row turns green and the clip status changes from **Importing** to **Done**.



If the color of the clip row turns into purple, the clip fails to import.



You can view the **Error Message** column to check the cause of the failure.

Related Topics

[Troubleshooting tips](#) on page 1127

[RMI settings](#) on page 330

[Set up RMI PC access to high-resolution assets](#) on page 487

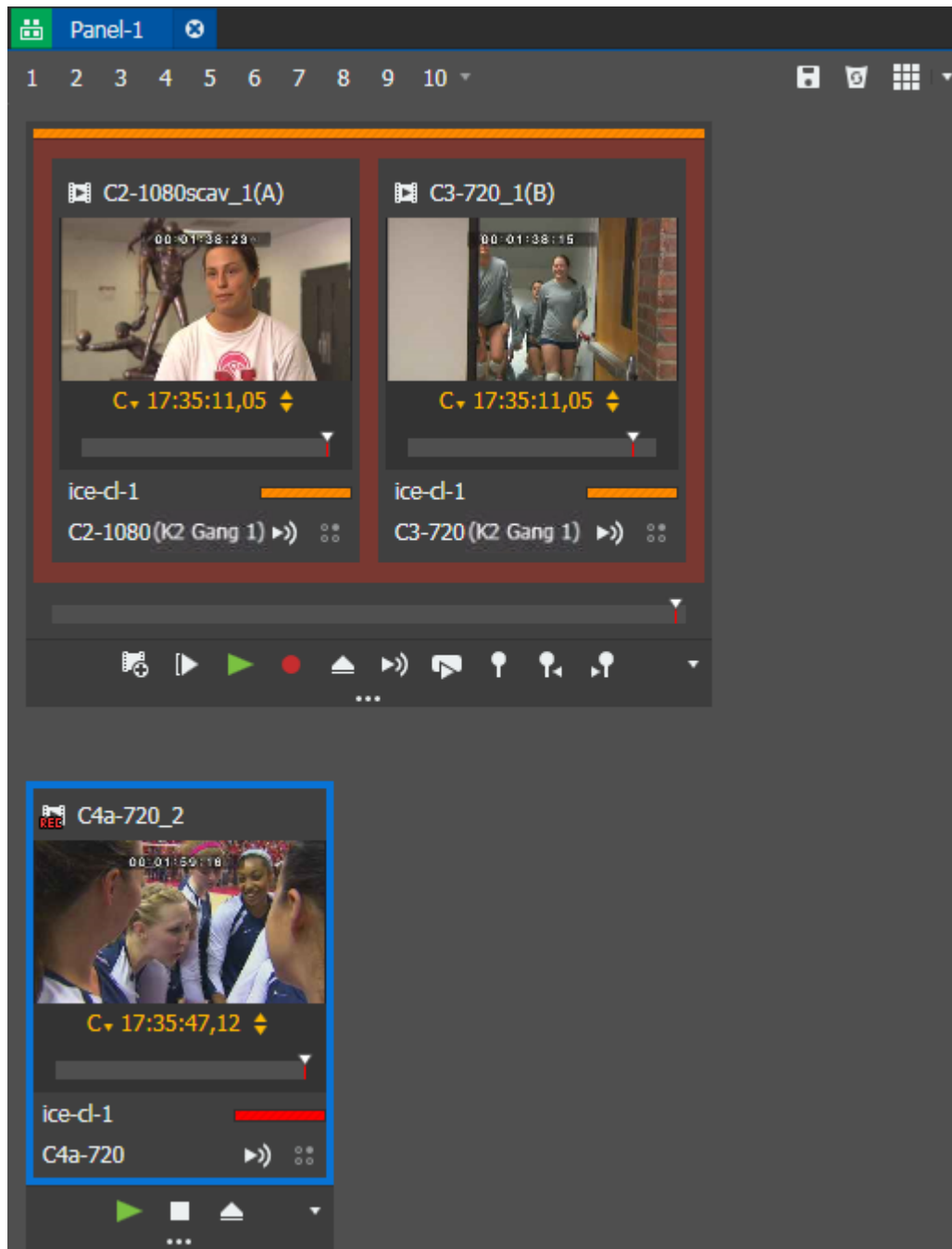
[Metadata Mapping Add/Modify Field settings](#) on page 274

[Permissions settings](#) on page 271





Working with K2 Channels

The Channel Panel tool

A Channel Panel allows you to control one or more K2 system channels. A Channel Panel appears in the GV STRATUS application as a tool when you launch it from the Navigator panel.



Channel Panel features are as follows:

- Ganged channels — Operate multiple channels simultaneously. The background color of the gang group identifies the gang. The channel name includes K2 gang info, when the channel is a part of a K2 gang.
- Transport controls — Controls a channel or a channel gang and adds markers to the loaded clip. A gang's transport controls affect the operations of all the channels in the gang simultaneously. Individual channels in a gang have overlay transport controls that can control the channel independent of the gang.
- Tally indicator — Indicates current operational status by colors, as follows:
 -  **Red:** Recording
 -  **Green:** Playing
 -  **Orange:** Cued. Media is loaded and ready to play.
 -  **Gray:** Idle. No media loaded.
- Toolbar — Provides buttons for access to panel functions.
- Asset type icon — Appears when an asset is loaded and indicates the type of asset.
- Single channel — Operates one channel.
- Scrub bar slider — Finds scenes quickly within a clip or playlist.
- Show/Hide transport controls — Shows or hides transport controls on a channel or a gang.

You can open multiple Channel Panels and use them simultaneously to suit your workflow needs.





If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Related Topics





[Toggling between camera angles in Inspector and Channel Panel](#) on page 806




Channel Panel buttons

These buttons located on the Channel Panel toolbar let you perform various functions:









-  **Salvo:** Loads, creates, or removes a salvo.
-  **Save:** Saves the current settings. The settings are saved to the Channel Panel configuration.
-  **Trash:** Removes an item, such as a channel or production element, from the panel when you drag and drop the item on the icon.
-  **View Mode:** Controls the display and size of the items in a list or panel.

These transport control buttons let you control channels:

-  **New Clip:** Creates a new clip and allows you to name the clip before recording.
-  **Cue Start:** Cues to the beginning of the asset.
-  **Record:** Starts recording. Toggles with Stop button.
-  **Stop:** Stops recording. Toggles with Record button.

-  **Play:** Plays the clip. Toggles with the Pause button.
-  **Pause:** Pauses the play operation. Toggles with Play button.
-  **Eject:** Ejects the current asset.

These buttons located on the channels and gangs in the Channel Panel extend the functionality of controls:

-  **Add Marker:** Logs an item for the current position.
-  **Go to Previous Marker:** Goes to previous keyword/marker.
-  **Go to Next Marker:** Goes to next keyword/marker.
-  **Hide Markers and Keywords:** Hides marker and keyword indicators on the scrub bar.
-  **Loop Playback:** Loops the current asset between mark in to mark out.
-  **Show/Hide Control Tray:** Shows or hides the control tray.
-  **Live Streaming Video:** Enables/disables the display of the live video stream.
-  **Live Streaming Audio:** Enables/disables the audio of the live video stream.

Related Topics

[Using mouse wheel for transport control](#) on page 938

[Arranging control tray buttons](#) on page 766

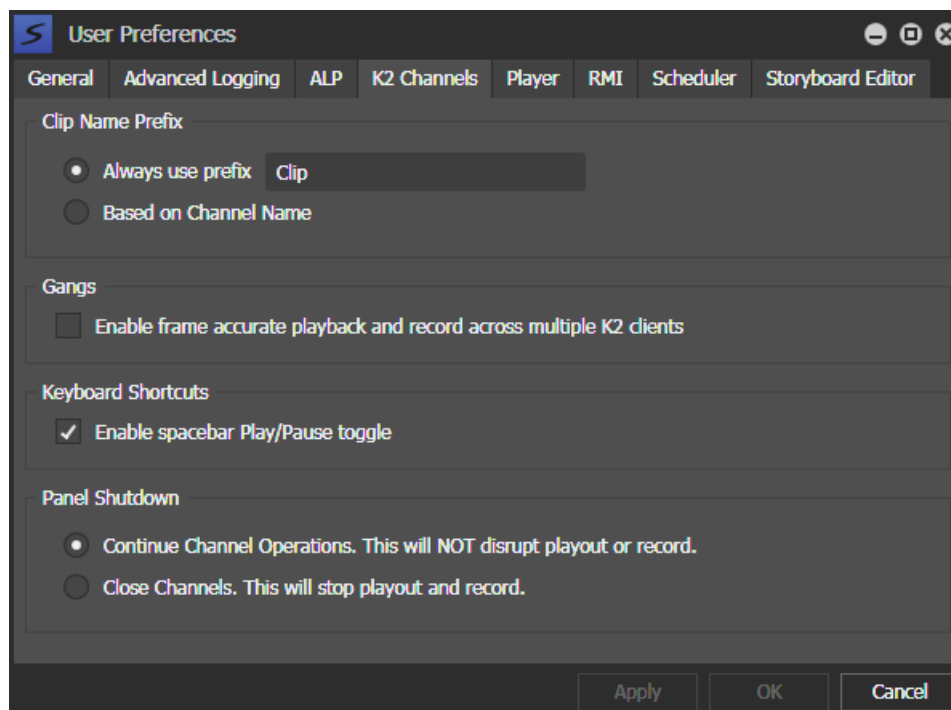
Configuring K2 Channels User Preferences

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.


- To configure Channel Panel user preferences, select the **K2 Channels** tab.



- To configure the default clip name prefix for new assets, do the following:

- To add or modify the default clip name prefix for new assets, select **Always use prefix** and then enter your desired prefix.

If you enter illegal characters, the **OK** and **Apply** buttons are grayed out.

 **Tip:** Use a short prefix if an asset's total pathname could be too long. You must limit the pathname to 150 characters or less. Asset and bin name limitations are described in a separate topic.

- To use the channel name in the clip name prefix, select **Based on Channel name**.

When the application applies a default clip name, if a clip already exists with the same name, the application appends a number to the end of the clip name prefix to ensure it is a unique name. This is done regardless of naming preference used.

- To enable or disable frame accurate setting for ganged channels, configure the **Enable frame accurate playback and record across multiple K2 clients** check box. This setting applies only for gangs with channels from multiple K2 Summit systems. When enabled, there is a very slight pause when starting play/record operations as the GV STRATUS application synchronizes channels.

Do not enable this frame accurate gang setting unless all K2 Summit systems have their time of day clocks set to a house LTC feed. This setting is in K2 AppCenter. If the frame accurate gang setting is enabled and K2 Summit systems are left at the default time of day setting of the Windows operating system clock, synchronization problems are likely, even if using a synchronization tool.

5. To enable or disable the play and pause function using the spacebar while playing an asset, configure the **Enable spacebar Play/Pause toggle** box.
These settings apply to Channel Panel and Playlist Editor.
6. To configure the behavior of channel operations when you close a panel or the application, do the following:
 - To allow any record or play operations currently underway to continue, select **Continue Channel Operations**.
 - To stop any record or play operations currently underway, select **Close Channels**.These settings apply to Channel Panel and Playlist Editor panels.
7. To apply a change and continue editing user preferences settings, click **Apply**.
8. To accept any changes and close the dialog box, click **OK**.
The dialog box closes.

Related Topics

[*Limitations for creating and naming assets and bins*](#) on page 1146

Creating a Channel Panel

1. In the Navigator panel expand the **Tools** node, right-click **Channel Panels** and select **New Channel Panel**.

The Channel Panel configuration is displayed in the Asset List and settings open in the Inspector panel.

The screenshot shows the 'Inspector' panel for 'Panel-1'. It includes a thumbnail, a 'Details' tab, and a 'Properties' section. The 'General' properties are visible, including the name 'Panel-1', description 'Configuration for a channel panel', and creation/modification dates. Below, two channel groups are listed: 'kl_summit_7' and 'stratus_sm_2'. Each group has a 'Working Bin' set to 'default' and a table of channels (C1-C4) with checkboxes for 'Unganged' and 'G1' through 'G4'.

Panel-1 Actions ▾

Thumbnail ☒

Details ☒

Properties

▼ **General**

Name

Description

Created Date 21/12/2015 9:47:35 AM

Modified Date 21/12/2015 9:47:35 AM

▼ **kl_summit_7**

Working Bin default ...


Channels	Unganged	G1	G2	G3	G4
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

▼ **stratus_sm_2**

Working Bin default ...

Channels	Unganged	G1	G2	G3	G4
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Revert Apply Launch

2. On the **Properties** tab, enter a name and description for the Channel Panel you are creating.
3. Click the **Show/Hide** button  to display each K2 system's channels as desired.
4. Select the working bin for the K2 Summit system as follows:

- a) Click the **Browse** button. 

A tree view section opens.

- b) Navigate the tree view and create or select the bin.

- c) Click **Apply**.

The tree view section closes.

The working bin applies to all the channels on the K2 Summit system.

NOTE: *The working bin is set for all the channels from the same K2 Summit/SAN system used in the Channel Panel.*

5. Configure channels as follows:

- To add channels to a gang, select channel checkboxes in the gang's column.
- To add a channel as a single channel, select the channel checkbox in the **Unganged** column.
- To add all channels to gang or as unganged, select the appropriate checkbox in the top row.
- If desired, enter names for channels.

These names are for display in the GV STRATUS application only.

If a channel is configured on the K2 Summit system as a ChannelFlex channel, you can enter multiple names to identify the different ChannelFlex inputs and/or outputs.

Settings are automatically saved as you configure.

6. To launch the Channel Panel from the Inspector panel, click **Launch**.

Related Topics

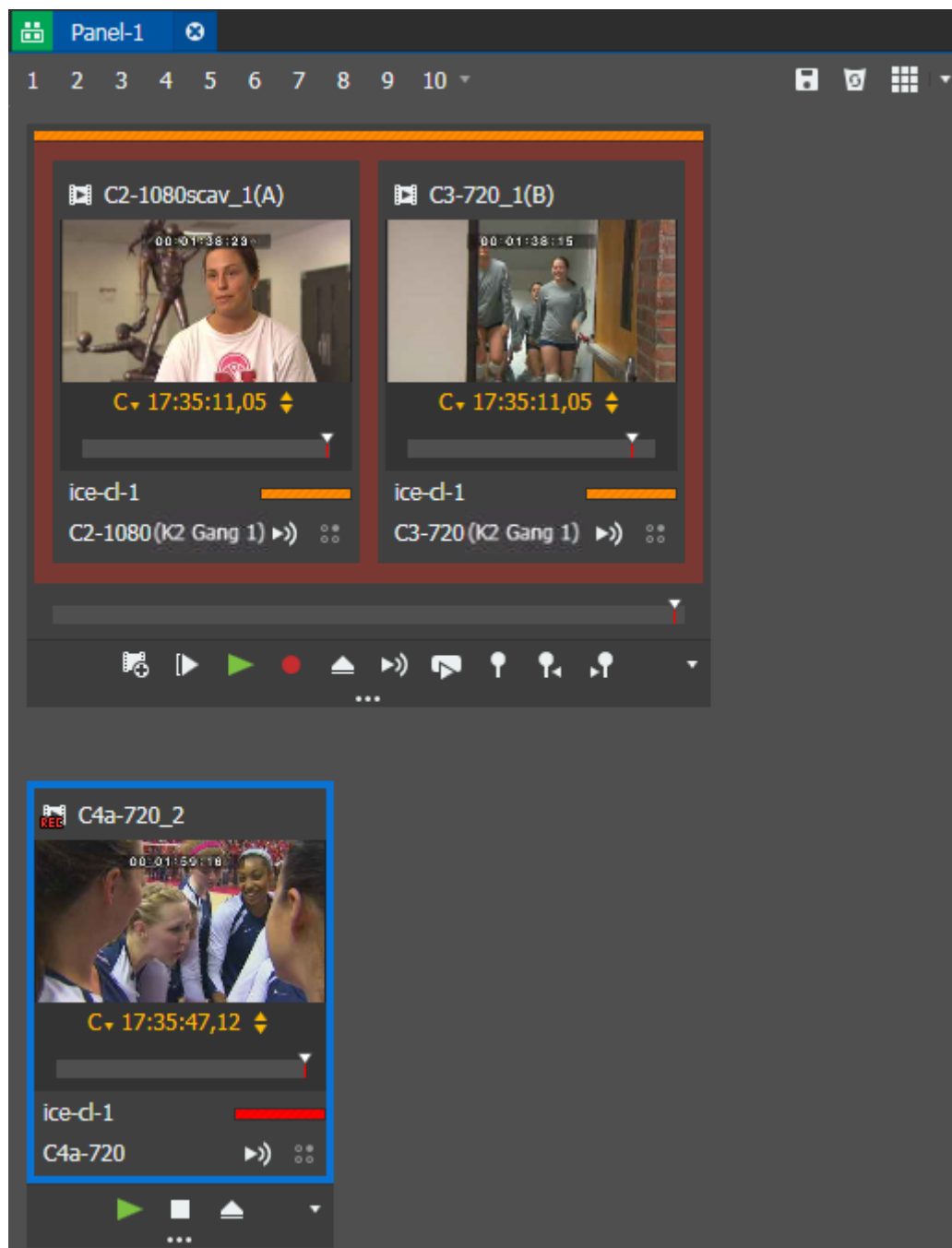
[Limitations for creating and naming assets and bins](#) on page 1146

Launching and closing a Channel Panel

Once you have created a Channel Panel you can launch it as follows:

1. In the Navigator panel expand the **Tools** node and select **Channel Panels**.
Your Channel Panel configuration is displayed in the Asset List.

2. Right-click the Channel Panel configuration and select **Launch**.



The Channel Panel opens.

3. To close the Channel Panel, click the **X** button on the title bar.

The Channel Panel closes and one of the following occurs, based on Channel Panel user preferences:



- Channel operations continue, which allows any record or play operations currently underway to continue.
- Channels close, which stops any record or play operations currently underway.

Related Topics

[Configuring K2 Channels User Preferences](#) on page 868

Modifying a Channel Panel while in use


After you have launched one or more Channel Panels, you can use drag and drop operations within a Channel Panel or between Channel Panels to change channels and gangs. You can do this while channel operations are underway.

1. Click on the top bar of a channel and drag it as follows:
 - To create a gang, drag a single channel on top of another single channel. A gang opens that contains the two channels.
 - To remove a channel from a gang, drag the channel to a location outside of the gang. The channel becomes a single channel in the Channel Panel.
 - To remove a channel from the Channel Panel, drag the channel to the **Trash** button  in the toolbar.
 - To add a single channel to a gang, drag the channel to the gang.
 - To remove a gang, drag all the channels in the gang to a location outside of the gang. When the last channel is removed from the gang, the gang is removed from the Channel Panel.
2. To change the working bin, do the following:
 - a) Right-click anywhere within the channel and select **Edit Working Bin**.
The Channel Panel configuration opens in the Inspector and the working bin control expands.
 - b) Select the working bin.
NOTE: The working bin is set for all the channels from the same K2 system used in the Channel Panel.
3. Click the **Save** button  in the toolbar.
4. When prompted to confirm, click **Replace**.

This updates the current Channel Panel configuration with your changes.

If you close and then launch the Channel Panel your changes remain in effect.

Resizing channels and gangs

- To resize channels, in the Channel Panel toolbar identify the **View Mode** button  and use it as follows:
 - Click the button to toggle between small, medium, and large size channels.
 - Click the drop-down arrow and select Small, Medium, or Large.
 - Click the drop-down arrow and drag the slider to the desired size.
- To resize a gang, drag the sides, bottom, or lower right corner of the Channel Panel. Channels automatically align horizontally or vertically as you resize.

Modifying a Channel Panel configuration

You can use the Channel Panel configuration to change the channels included in a Channel Panel and the gangs to which they are assigned.

1. In the Navigator panel expand the **Tools** node and select **Channel Panels**.
Your Channel Panel configuration is displayed in the Asset List.
2. Right-click the Channel Panel configuration and select **Open**.
Channel Panel settings open.
3. Change settings as desired.
4. Do one of the following:
 - To save your changes when the Channel Panel is launched, click **Apply**. The changes take effect in the Channel Panel.
 - To save your changes when the Channel Panel is not launched, click **Launch**. The Channel Panel launches with the changes in effect.
 - To discard your changes, click **Revert**. The settings present when you opened the Channel Panel configuration are restored.

Copying a Channel Panel configuration

You can use the Channel Panel to copy a Channel Panel configuration.

1. In the Navigator panel expand the **Tools** node and select **Channel Panels**.
Your Channel Panel configuration displays in the Asset List.
2. Right-click on the Channel Panel configuration and select **Copy**.
3. Right-click again on the Asset List and select **Paste**.
The copy of the Channel Panel configuration displays in the Asset List.
4. If you want to rename the Channel Panel configuration, right-click on it and select **Rename**.

You can double-click the Channel Panel configuration to view its settings in the Inspector panel. After that, you can edit the channel configuration and save it by clicking the **Apply** button.

Related Topics

[Creating a Channel Panel](#) on page 871

[Launching and closing a Channel Panel](#) on page 872




About recording clips in a Channel Panel

You have the following options for recording clips:

- Crash Record — Start a recording without specifying a clip name. The GV STRATUS application gives the clip a default name based on User Preference settings.
- New clip — Create and name a clip before recording starts.

Indicators that the recording is underway are as follows:

- Timecode increments.
- Tally indicators display a red color.
- The clip thumbnail displays.

The function of the **Record** button  toggles. While the channel is recording, clicking the **Stop** button  stops the recording. While the channel is not recording, clicking the **Record** button  begins recording.

When the channels in a gang are not on the same K2 Summit system, there can be a brief pause before the record operation begins.

If quota is configured on the destination bin, ensure you have enough disk space before recording starts.

Refer to K2 system documentation for more details about recording clips.

Related Topics

[Configuring K2 Channels User Preferences](#) on page 868

Recording on a single channel using crash record

1. Launch a Channel Panel.
2. Click the **Record** button  on a single channel. ( **F12**)

The following occurs:



- The application creates a new clip and gives it a default name based on User Preference settings.
- Recording begins on the channel.
- The clip records to the current working bin.

Related Topics

[Configuring K2 Channels User Preferences](#) on page 868

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Recording on a single channel using new clip

1. Launch a Channel Panel.
2. Right-click on the server/channel name and select **New Clip**.
A New Clip dialog box opens.
3. Accept the default clip name or enter a clip name and then click **OK**.
A new clip is loaded into the channel.
You can configure the default clip name in User Preferences.
4. Click the **Record** button . ( **F12**)
The following occurs:
 - Recording begins on the channel.
 - The clip records to the current working bin.



Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

[Configuring K2 Channels User Preferences](#) on page 868

Recording on ganged channels using crash record


1. Launch a Channel Panel.
2. Click the **Record** button . ( **F12**) on a gang.
The following occurs:
 - The application creates new clips and gives them default names based on User Preference settings.
 - Recording begins on all channels in the gang.
 - The clips record to the current working bin.
 - The Channel Panel automatically assigns an **Angle** property for each clip.



Related Topics

[Configuring K2 Channels User Preferences](#) on page 868

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Recording on ganged channels using new clip

1. Launch a Channel Panel.
2. Click the **New Clip** button  on a gang.
A New Clip dialog box opens.
3. Accept the default clip name or enter a clip name and then click **OK**.
New clips are loaded into the gang channels.
You can configure the default clip name in User Preferences.

4. Click the **Record** button.  ( **F12**)

The following occurs:

- Recording begins on all channels in the gang.
- The clips record to the current working bin.
- The Channel Panel automatically assigns an **Angle** property for each clip.

Related Topics



[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

[Configuring K2 Channels User Preferences](#) on page 868

Recording on an individual channel in a gang using crash record

1. Launch a Channel Panel.
2. Double-click on the thumbnail of an individual channel in a gang.

The overlay transport controls appear.

3. Click the **Record** button.  ( **F12**)

The following occurs:

- The application creates a new clip and gives it a default name based on User Preference settings.
- Recording begins on the channel.
- The clip records to the current working bin.

Related Topics

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Recording on an individual channel in a gang using new clip



1. Launch a Channel Panel.
2. Right-click on the thumbnail of an individual channel in a gang and select **New Clip**.

A New Clip dialog box opens.

3. Accept the default clip name or enter a clip name and then click **OK**.

A new clip is loaded into the channel.

You can configure the default clip name in User Preferences.

4. Click the **Record** button.  ( **F12**)

The following occurs:

- Recording begins on the channel.
- The clip records to the current working bin.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

[Configuring K2 Channels User Preferences](#) on page 868

Recording on ChannelFlex channels

When your K2 system channel is configured for ChannelFlex Multi-Cam, two record inputs are available for the channel.

1. Launch a Channel Panel that contains ChannelFlex channels, or add ChannelFlex channels to the Channel Panel.

A ChannelFlex Multi-Cam channel appears as follows:

The timecode control, transport controls, and slider bar operate both record inputs at the same time.

2. Do one of the following record operations:

- Record using crash record.
- Record using new clip.

Record operations are similar to those on a channel that is not configured for ChannelFlex.

A channel configured for ChannelFlex Multi-Cam is a record-only channel so you cannot load assets into the channel.

Related Topics

[Recording on a single channel using crash record](#) on page 876

[Recording on a single channel using new clip](#) on page 877




About playing clips in a Channel Panel

You have the following options for playing clips:

- Playback — Plays the clip once and stops at the end of the clip. You can do this on a single channel, on all the channels in a gang, or on an individual channel in a gang.
- Loop play — Plays the clip in a continuous loop until you manually stop the playout. You can do this on a single channel or on all the channels in a gang.

Indicators that playback is underway are as follows:

- Timecode increments.
- Tally indicators display a green color.
- The scrub bar slider moves from left to right.

The function of the **Play** button  toggles. While the channel is playing, clicking the **Pause** button  stops the playback. While the channel is not playing, clicking the **Play** button  begins playback.

When the channels in a gang are not on the same K2 Summit system, there can be a brief pause before the play operation begins.

Refer to K2 system documentation for more details about playing clips.

Related Topics

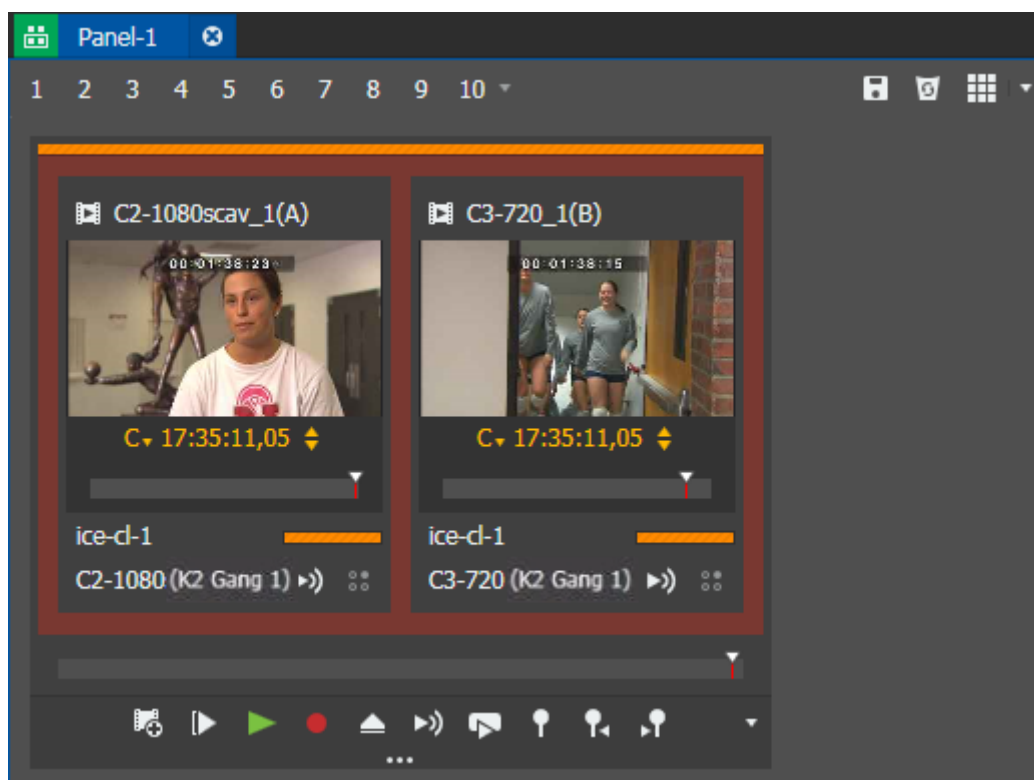
[Using mouse wheel for transport control](#) on page 938

Loading an asset for playback in a Channel Panel

1. Launch a Channel Panel.
2. In the Navigator panel, select the bin containing the asset to play.
The asset appears in the Asset List.

3. Do one of the following:

- To load the asset into a single channel, drag the asset from the Asset List to a channel's thumbnail display area. You can do this on a single channel or on a channel that is part of a gang.
- To load the same asset into multiple channels of a gang, drag the asset from the Asset List to the gang background or to the gang tally indicator. The channel name includes K2 gang info, when the channel is a part of a K2 gang.
- To load the asset that is in one channel into another channel, drag the asset type icon from one channel to another.



The mouse pointer displays a no-drop icon for channels that are incompatible with the clip's video standard or format.



The following occurs:

- The asset is loaded on the channels that have access to the asset. If a gang includes channels from multiple K2 systems that have separate storage, the asset loads on the channels from those K2 systems that contain the asset in their storage. The asset does not load on channels from K2 systems that do not contain the asset.
- Each loaded channel displays a thumbnail of the media.
- Tally indicators display an orange color to indicate that media is cued up and ready to play.

Related Topics

[Locating a loaded clip or playlist](#) on page 885

Playing a clip on a single channel



1. Launch a Channel Panel.
2. Load an asset into a channel so that it is cued up and ready to play.
3. Click the **Play** button.  ( **W**)
Playback begins on the channel.

Related Topics

[Loading an asset for playback in a Channel Panel](#) on page 880

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Playing clips on ganged channels



1. Launch a Channel Panel.
2. Load assets into channels so they are cued up and ready to play. You can load the same asset on all channels or load different assets on individual channels.
3. Click the **Play** button.  ( **W**)
Playback begins on the channels in the gang.

Related Topics

[Loading an asset for playback in a Channel Panel](#) on page 880

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Playing ganged clips and camera angles on a single channel

1. Launch a Channel Panel.
2. Load a ganged recorded asset or a clip that is part of a K2 Dyno camera angle set into a channel so that it is cued up and ready to play.
3. Click the **Play** button.  ( **W**)
Playback begins on the channel.
4. On the player, hover your mouse pointer on the top right of the asset.
The **Camera Angle** selector overlay displays.

NOTE: *You can only toggle between angles for playback of ganged recorded assets or K2 Dyno camera angle assets.*

5. Select the desired angle on the overlay display.

The clip of the selected angle displays.


You can also toggle camera angles of audio only assets. The player displays thumbnail of the audio only asset, and the **Camera Angle** selector overlay displays available angles that you can select.



Related Topics




[Toggling between camera angles in Inspector and Channel Panel](#) on page 806

[Browsing camera angles](#) on page 782

Playing a clip on a single channel in loop play

1. Launch a Channel Panel.
2. Load an asset into a channel so that it is cued up and ready to play.
3. Click the **Loop Playback** button. 

The channel is now cued in loop play mode, as indicated by the highlighted loop play button.
4. Click the **Play** button.  ( **W**)

Loop play begins on the channel. When the clip reaches its end, it automatically starts to play again from its beginning.
5. Control loop play as follows:
 - To pause loop play, click the **Pause** button. 
 - To resume loop play, click the **Play** button.  When loop play restarts it begins at the point from which it stopped.
 - To stop loop play when it reaches the end of the clip, click the **Loop Playback** button. 

Playback continues normally and stops at the end of the clip.


 **Spacebar** = Play/Pause. Toggles between play and pause.



Related Topics

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

[Configuring K2 Channels User Preferences](#) on page 868




Playing ganged channels in loop play

1. Launch a Channel Panel.
2. Load assets into channels so they are cued up and ready to play. You can load the same asset on all channels or load different assets on individual channels.
3. Click the **Loop Playback** button. 

The gang is now cued in loop play mode, as indicated by the highlighted loop play button.
4. Click the **Play** button.  ( **W**)

Loop play begins on the channels. When each clip reaches its end, it automatically starts to play again from its beginning.

5. Control loop play as follows:

- To pause loop play, click the **Pause** button. 
- To resume loop play, click the **Play** button.  When loop play restarts it begins at the point from which it stopped.
- To stop loop play when it reaches the end of the clip, click the **Loop Playback** button.  Playback continues normally and stops at the end of the clip.

 **Spacebar** = Play/Pause. Toggles between play and pause.

Related Topics

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

[Configuring K2 Channels User Preferences](#) on page 868

Toggling between camera angles in Inspector and Channel Panel

If a clip is a part of a K2 Dyno camera angle set or a GV STRATUS gang record set, in Inspector player and in Channel Panel player you can toggle between the associated clips in the set.

1. On the player, hover your mouse pointer on the top right of the asset.

The **Camera Angle** selector overlay displays.

NOTE: *You can only toggle between angles for playback of ganged recorded assets or K2 Dyno camera angle assets.*

2. Select the desired angle on the overlay display.

The clip of the selected angle displays.

You can also toggle camera angles of audio only assets. The player displays thumbnail of the audio only asset, and the **Camera Angle** selector overlay displays available angles that you can select.

Related Topics

[Browsing camera angles](#) on page 782

Controlling an individual channel in a gang

1. Launch a Channel Panel.
2. If desired, begin a record or a play operation on the gang.
3. Double-click on the thumbnail of an individual channel in the gang.

The overlay channel transport controls appear.

4. Use the overlay channel transport to control the channel as desired.

You can stop a play operation and then use the scrub bar to navigate to a location in the clip.

5. Consider the following when controlling an individual channel in a gang:
 - Operating the individual channel does not affect the ongoing operation of the gang.
 - When you pause and then resume playback on an individual channel, playback starts at the point it was stopped. The channel does not re-sync with the ongoing playback of the other channels in the gang.

The individual channel's tally indicator displays the color that indicates its current operational status.

Locating a loaded clip or playlist

In Channel Panel or Playlist Editor, if you want to quickly access the location of the currently loaded clip or playlist, the GV STRATUS application can show you the location.

1. Identify the K2 Summit system name and channel name in the lower left section of the channel.
2. Click in the section in one of the following ways:
 - Double-click in the section.
 - Right-click and select **Locate Playlist** or **Locate Clip**.

The GV STRATUS application shows the location as follows:

- In the Navigator panel the bin that contains the clip or playlist is selected.
- The bin's Asset List opens with the clip or playlist selected.

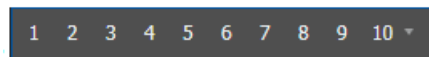
About salvos

A salvo is a pre-defined set of clips to load into the channels of a Channel Panel. You can use a salvo when you repeatedly set up the same channels to play the same clips as part of your show.

The salvo is saved as a part of the Channel Panel configuration. One Channel Panel configuration can have ten saved salvos.

Creating a salvo

1. Load clips in the channels of your Channel Panel.
2. Identify the salvo buttons in the Channel Panel toolbar.



3. Determine the salvo button to use for your new salvo as follows:
 - a) Identify buttons with numbers that are a lighter color (not bold). These buttons do not have a salvo assigned.
 - b) Hover your mouse pointer over a salvo button.
A tooltip displays the salvo name or "Unassigned".
4. Right-click the salvo button and select **Create Salvo**.
A dialog box opens and prompts for a salvo name.

5. Enter the name of the salvo and then click **OK**.

The application displays this name as a tooltip to identify the salvo button.

The salvo is saved as part of the Channel Panel configuration.

You must save the Channel Panel configuration to save the new salvo.

Loading a salvo

1. Identify the salvo to load by hovering your mouse pointer over a salvo button.

A tooltip displays the salvo name.

2. Click the **Salvo** button. **1**

The clips load into the channels.

Deleting a salvo

1. Identify the salvo to delete by hovering your mouse pointer over a salvo button.

A tooltip displays the salvo name.

2. Right-click on the salvo's button and select **Remove Salvo**.

The salvo button now has no salvo assigned.

You must save the Channel Panel configuration to save the salvo button with no salvo assigned.

Modifying a salvo

1. Identify the salvo to modify by hovering your mouse pointer over a salvo button.

A tooltip displays the salvo name.

2. Click the **Salvo** button **1** to load the salvo, if it is not already loaded.

3. Eject or load clips to modify the salvo.

4. Right-click the salvo button and select **Create Salvo**.

A dialog box opens and prompts you for a salvo name.

5. Click **OK**.

Do not change the salvo name, so your modifications overwrite the salvo.

The modified salvo is saved as part of the Channel Panel configuration.


You must save the Channel Panel configuration to save the modified salvo.

Configure router settings in Channel Panel

Before doing this task, make sure that in GV STRATUS Control Panel your router connection settings are configured.

You can set the router source and destination for a channel in a Channel Panel, and save the setting with the Channel Panel configuration.

1. Launch a Channel Panel.

2. Identify the channel for which you are making router settings.
You can make router settings for a channel in a gang or for a channel not in a gang.
3. Right-click the channel and select **Router Settings**.
The **Router Settings** dialog box opens.
4. Configure router settings as follows:
 - **Source:** The feed coming into the router, such as from a camera.
 - **Destination:** The port coming out of the router, connecting to the K2 system channel.
5. Click **OK** to save settings and close.
6. Repeat steps to configure router settings on other channels in the Channel Panel as desired.
7. Click the **Save** button  in the toolbar.
8. When prompted to confirm, click **Replace**.
This updates the current Channel Panel configuration with your changes.

The next time you launch the Channel Panel, channels have routers already configured. To determine a channel's router settings, repeat steps to open the **Router Settings** dialog box. Router settings are not displayed in Channel Panel configuration.

About keyboard shortcuts and input focus in a Channel Panel

A keyboard shortcut takes effect for the channel or gang with the input focus. You must make sure that the channel or gang that you want to control has the input focus before you use a keyboard shortcut.

A blue border indicates the channel or gang with the input focus. You can give a channel or gang the input focus as follows:

- To give a gang the input focus, click once anywhere on the gang.
- To give a single (un-ganged) channel the input focus, click once anywhere on the channel.
- To give an individual channel in a gang the input focus, double-click on the channel. This also displays the overlay transport controls for that channel.

Related Topics

[Channel Panel keyboard shortcuts](#) on page 1129

Modifying the clip name in a Channel Panel

You can change the name of the clip currently loaded in a channel.

1. Press the **Alt** key and click on the clip name at the top of the channel.
2. Type in the new name for clip.
The name must conform to asset and bin name limitations.
The name change must not be a change in capitalization only.
3. Press **Enter** or **Tab** or click anywhere outside of the clip name to put the change into effect.

Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

Loading an asset into the Inspector from a Channel Panel

- 1. Load an asset into a channel, if not already loaded.
- 2. Identify the asset type icon on the channel and do one of the following:
 - Double-click the icon.
 - If the Inspector panel is open, drag the icon to the Inspector.

The asset opens in the Inspector panel.

Using the scrub bar to navigate through a clip

You can use the scrub bar to navigate through clips in ganged channels, single channels, and individual channels in a gang.



- Drag the scrub bar slider to navigate through the clip.
- Click at any point along the scrub bar to jump the slider to that location in the clip.

Related Topics

[Using mouse wheel for transport control](#) on page 938

Identifying and selecting the timecode type

Where timecode is displayed, you can view and change the timecode type.

- 1. To identify the timecode type, interpret the label next to the timecode display as follows:

C	Current Timecode
I	Mark In
O	Mark Out
D	Duration
E	Elapsed
R	Remaining
d	Marked Duration
r	Remaining to Mark Out
e	Elapsed from Mark In

2. To change the timecode type, right-click the timecode display or label and select the type of timecode.

Selecting timecode type to navigate and mark clips

You can use the timecode display to navigate and mark clips in single channels, and individual channels in a gang.

1. On the timecode display, select one of the following timecode types:

- **C**: Current Timecode
- **I**: Mark In
- **O**: Mark Out
- **D**: Duration
- **d**: Marked Duration

You cannot navigate or set marks using the following timecode types.

- Elapsed
- Elapsed from Mark In
- Remaining
- Remaining to Mark Out

2. **Alt + Click** on the timecode display.

Timecode goes into edit mode, as indicated by the up/down buttons.

3. Do one of the following:

- Enter time code values.
- Click up/down buttons to go to your desired timecode position.

4. Press **Enter** or click outside the timecode display.

The playback point moves to the specified timecode, as indicated by the scrub bar. If timecode type is mark in or mark out, marks are set at the specified timecode. If timecode type is duration, the mark out point is set.

Channel panel markers

When you add a marker to a clip in a Channel Panel, behavior can vary depending on the state of the clip and if the channel is in a gang.

If the clip is currently recording, the marker is added and appears on the scrub bar. As the clip continues to record and its length increases, the marker moves to the left on the scrub bar, as its position relative to the end of the clip changes.

You can add a marker to a clip in an individual channel. This includes an individual channel that is not in a gang as well as an individual channel that is in a gang. If you add a marker to a clip in an individual channel that is in a gang, the marker is not applied in the other clips in the gang and it does not appear on the gang scrub bar.

In order to add a marker to a gang and have the marker applied to all the clips in the gang simultaneously, the gang must be as follows:

- All channels must be recording, all channels must be cued, or all channels must be playing.
- All the clips in the gang must be of the same length.
- Recording channels must have started at the same timecode value.
- Cued channels must have the same starting and ending timecode values.

Also, it is strongly recommended that all channels be frame accurate and use the same timecode source.

If you start your ganged channels recording as one gang record and as long as all the clips continue to be same length during the recording process, you can add a gang marker to all the clips in the gang. These markers appear on the individual channel scrub bar and on the gang scrub bar.

If the clips in a gang are not the same length, you cannot add a marker to the gang. This occurs if you start/stop recordings of individual channels in the gang or if you cue already recorded clips of different length/timecode into the gang.


If you load a ganged clip into the Inspector panel and add a marker there, the marker appears on that individual channel's scrub bar in the gang. However, that marker does not appear on the gang scrub bar, since the marker was not added to the gang.

Related Topics

[Adding markers](#) on page 940

[Navigating to keywords or markers in an asset](#) on page 944

Hiding transport controls




- You can show/hide transport controls on a gang or a single channel by clicking the **Show/Hide Control Tray** button.  This opens the control tray.
- You can show/hide transport controls on an individual channel in a gang by double-clicking in the thumbnail display area.

Managing Channel Panel configurations

1. In the Navigator panel expand the **Tools** node and select **Channel Panels**.
Your Channel Panel configuration displays in the Asset List.
2. In the Asset List, right-click the Channel Panel configuration and do the following:
 - To delete the Channel Panel configuration, select **Delete**.
 - To open the Channel Panel configuration in the Inspector panel, select **Open With | Inspector**.
 - To launch the Channel Panel, select **Launch**.

Channel status indicators

The application displays icons with messages in a channel's thumbnail area to indicate the current status of the channel, as follows:

Icon	Status
	Normal, no clip loaded.
	Warning
	Error

Reconnecting to a K2 system

If status indicators report that a channel is no longer connected to a K2 system, you can trigger the channel to reconnect to the K2 system.

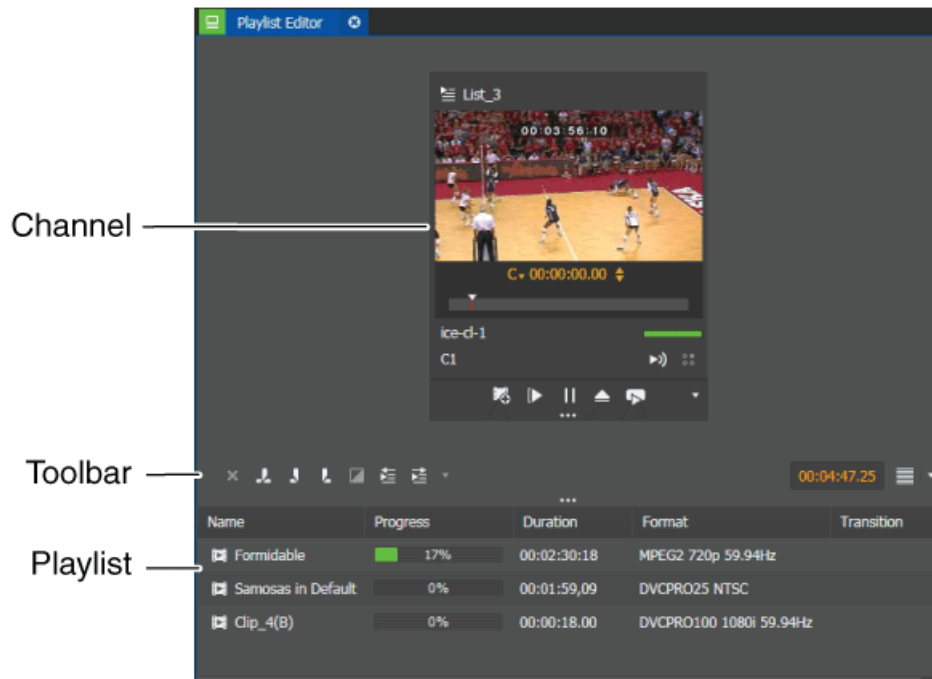
1. In the Channel Panel, identify the disconnected channel as indicated by the channel status indicator and message in the channel's thumbnail area.
2. Click the **Reconnect** button.

One of the following occurs:

- If Channel Panel failed to connect to the server, the channel connects to the K2 system. Other channels in the Channel Panel attempt to reconnect as well, if those channels were previously connected to that same K2 system.
- If the channel is currently owned, an "...Are you sure...?" message appears and provides information about the user and K2 system that currently owns the channel. Click **Yes** to disconnect the current owner and connect to the K2 system.

The Playlist Editor tool

The Playlist Editor allows you to assemble and edit a Playlist. You can launch the Playlist Editor as a panel from a bin, from an Asset List, and the tool section of the Navigator panel.



You can drag assets into the panel to create or add to a Playlist. Assets in the panel are called *events*.

The panel has the following features:


- **Channel** — Controls a K2 system channel for playback of lists.
- **Toolbar** — Performs operations on events in the list.
- **Playlist** — Displays events and allows editing of events.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Editor Panel buttons

These buttons located on the toolbar let you perform various functions:

- Delete:** Deletes the selected item or items. Disabled if delete rights denied in GV STRATUS Control Panel.
- Split:** Splits the item at the current position.
- Trim In:** Trims the start of the event at the current position.
- Trim Out:** Trims the end of the event at the current position.
- Add Transition:** Adds a transition to the event.
- Show/Hide Transition Panel:** Edit current transition settings
- Go to Previous:** Goes to the previous transition in the playlist or sequence.

 **Go to Next:** Goes to the next transition in the playlist or sequence.


These transport control buttons let you control the channel:

 **New Playlist:** Creates a new playlist.


 **Cue Start:** Cues to the beginning of the asset.

 **Play:** Plays the clip. Toggles with the Pause button.

 **Pause:** Pauses the play operation. Toggles with Play button.

 **Eject:** Ejects the current asset.


These buttons located on the channel extend the functionality of transport controls:

 **Loop Playback:** Loops the current asset between mark in to mark out.

 **Hide Markers and Keywords:** Hides marker and keyword indicators on the scrub bar.

 **Show/Hide Control Tray:** Shows or hides the control tray.

 **Live Streaming Video:** Enables/disables the display of the live video stream.

 **Live Streaming Audio:** Enables/disables the audio of the live video stream.

Related Topics

[Using mouse wheel for transport control](#) on page 938

[Arranging control tray buttons](#) on page 766

[Adding and removing transitions](#) on page 954

About playlists and sequences

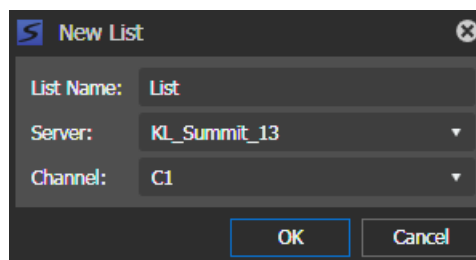
You can create or modify playlists and sequences as follows:

- The Playlist Editor creates and modifies playlists. When you use the Playlist Editor you are online, which means you are using a K2 system channel for the playlist. A playlist is always an asset in K2 storage and is saved automatically as you modify it.
- The Storyboard Editor creates and modifies sequences. When you use the Storyboard Editor you are offline, which means you are not using a K2 system channel. You can save the sequence as a playlist into K2 storage and play it on a K2 system channel.

Creating a playlist

1. Open the Playlist Editor as follows:
 - a) Do one of the following:
 - Right-click a bin on the K2 Summit system and select **New | Playlist**.
 - Right-click in the empty space of an Asset List and select **New | Playlist**.
 - Select an asset or select multiple assets (Ctrl + Click) in an Asset List and then right-click and select **New | Playlist from Clips**. When you use this option assets are added to the playlist in the order selected.


A New List dialog box opens.



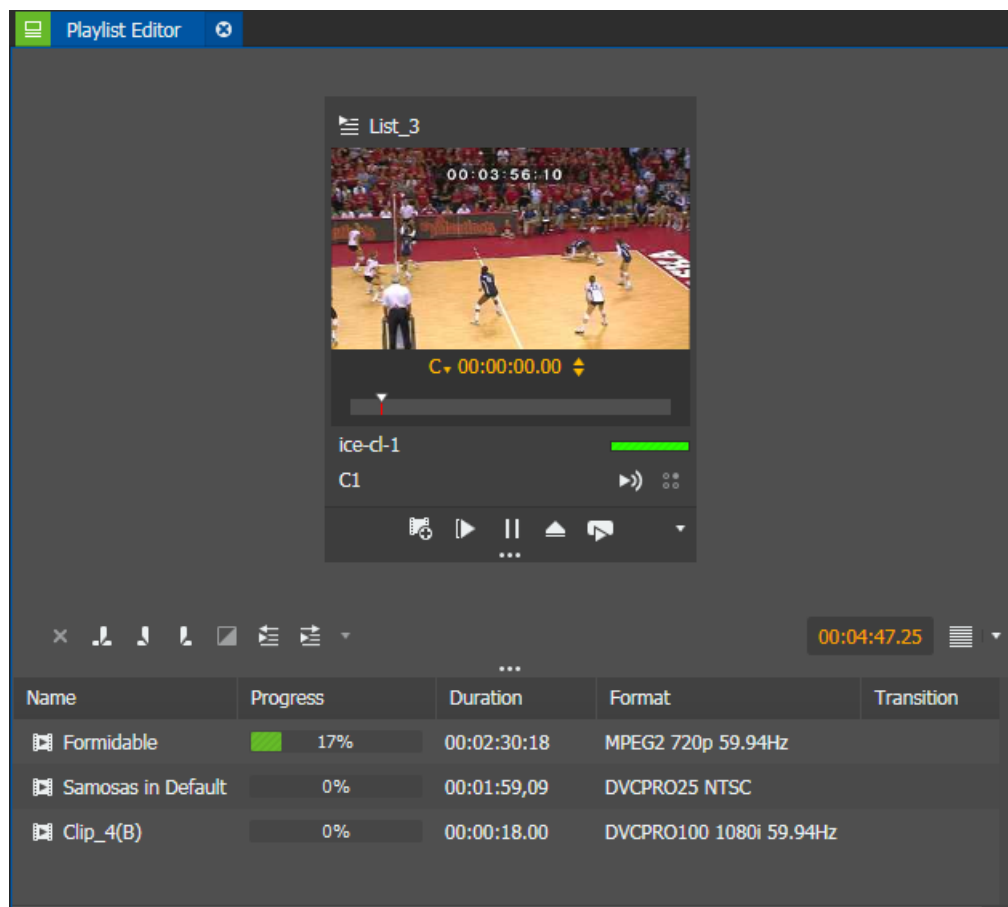
- b) Enter the name of your playlist and select the K2 system and channel on which you are creating your playlist, then click **OK**.

The Playlist Editor opens.
 2. In a K2 bin in Asset List , select an asset and drag it to the Playlist Editor panel.

The asset displays.

If needed, you can also drag it to the Inspector panel.
 3. To preview the asset, click the **Play** button  or use the appropriate transport controls.

4. Drag the asset if you want to rearrange the playlist in the lower section of the Playlist Editor.



The asset is now referred to as an *event* in the Playlist.

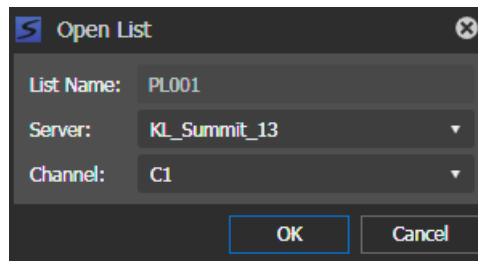
NOTE: If you leave the asset loaded in the Inspector and make additional changes, such as changing the mark-in or mark-out points, these changes are not reflected in the Playlist Editor unless you drag the asset to the Playlist Editor again.

5. Repeat above steps to add additional events.
6. In the panel, use the toolbar buttons to modify events.

To play the Playlist, use the transport controls in the Playlist Editor's channel.

Opening a Playlist

1. In an Asset List, right-click on a playlist and select **Open With | Playlist Editor**.
The Open List dialog box opens.



2. Select the K2 system and channel on which to open the playlist.
3. Click **OK**.
The Editor Panel opens.

After opening the playlist, use the toolbar buttons to modify events and transport controls to control playback in the Playlist Editor's channel.

Loading a playlist into the Playlist Editor


1. From an Asset List, drag a playlist into the Playlist's channel.
The playlist loads into the Playlist Editor.
If the Playlist Editor was previously loaded with a different playlist, the playlist you drag in replaces the previous playlist.
2. After loading the playlist, use the toolbar buttons to modify events and transport controls to control playback in the Playlist Editor's channel.

Related Topics

[Locating a loaded clip or playlist](#) on page 885


Rearranging or deleting events in a playlist

Select the event in the panel and choose one of the following actions:

- To delete the selected event, click the **Delete** button. 
- To move the selected event, drag the event to a new location in the panel.

There is no Undo feature for these operations.

Splitting an event

1. Navigate to the desired location in the event.
2. Select the **Split** button. 

The event is divided into two events with identical names.

There is no Undo feature for these operations.

Digital Media Platform

Digital Media Platform setup

Grass Valley products and 3rd party products are installed and configured to support the unique Digital Media Platform workflow required by the Grass Valley customer. Related topics provide examples of some of the set up tasks that can be a part of a Digital Media Platform workflow.

Related Topics

[Xcode Control engine settings](#) on page 280

[Workflow engine settings](#) on page 283

[Example rules: Export segments, assets](#) on page 521

[Adding an Elemental transcode profile](#) on page 536

Digital Media Platform workflow

1. In the GV STRATUS application, populate a Segment Template with Digital Media Platform metadata properties.
2. Add the Segment Template to a Newsroom Computer System rundown line item.
3. In Ignite, import the rundown.
4. In Ignite, perform the show.

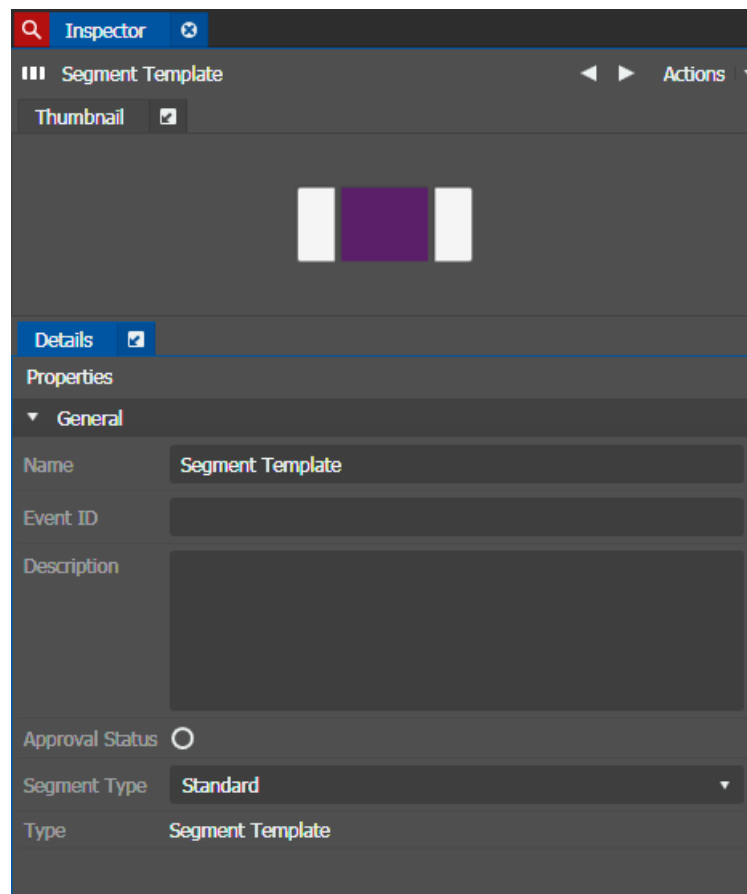
A GV STRATUS asset of the show is created. As stories are completed, they are added to the asset with segment boundaries. Segments inherit the Digital Media Platform metadata properties from the Segment Template.


Add a Segment Template to Newsroom Computer System

This task is part of the Digital Media Platform workflow.

1. In Inspector, click **Actions | New | Segment Template**.

A Segment Template opens.



2. Configure properties to define metadata.
3. For **Segment Type**, select **Live**.
This type indicates Ignite integration.
4. If you want to save the Segment Template for later reuse, drag the **Segment Template** icon  to the Navigator panel **Favorites** section.
5. In the Newsroom Computer System, for the desired rundown line item, open the script.

- From GV STRATUS Inspector, drag the **Segment Template** icon  to the open script in the Newsroom Computer System.

The Segment Template metadata is associated with the rundown line item in the Newsroom Computer System.



NOTE: Whenever a custom metadata is added or removed from the Segment Template in GV STRATUS, you need to re-associate the Segment Template with rundown line items to update the inserted metadata.

In the Newsroom Computer System, if you have a single rundown line item (story slug) that contains multiple sub-items (segments), associate just one Segment Template with the single rundown line item. The sub-items are appropriately incorporated in the Digital Media Platform workflow with associated metadata.

- Repeat steps to populate the Newsroom Computer System rundown with Digital Media Platform metadata properties.
- In the Newsroom Computer System, to change the Segment Type to Break, select the **Break** check box for desired segments.

Page	Story Slug	Segment	Break	Last Mod By	TME
A1	Intro	Clock	<input type="checkbox"/>	Nazrul Naz	DMP_StartShow2
B0	Fly Me to the Moon	Flash	<input checked="" type="checkbox"/>	Nazrul Naz	DMP_Segment2
B1	More Turtles Found Dead	Flash	<input type="checkbox"/>	Nazrul Naz	DMP_Segment2
C0	MH370	Intro	<input checked="" type="checkbox"/>	Nazrul Naz	DMP_Segment2
C1		Package 1	<input type="checkbox"/>	Nazrul Naz	DMP_Segment2
C2		Package 2	<input type="checkbox"/>	Nazrul Naz	DMP_Segment2
C3		Tag	<input type="checkbox"/>	Nazrul Naz	DMP_Segment2
C4	Milo	Flash	<input type="checkbox"/>	wy Lee	DMP_Segment2
D0	Nespray	Advert	<input checked="" type="checkbox"/>	Nazrul Naz	DMP_Segment2
D1	Outro	Sport	<input type="checkbox"/>	Nazrul Naz	DMP_StopShow2

Next, in Ignite, import the rundown from the Newsroom Computer System.

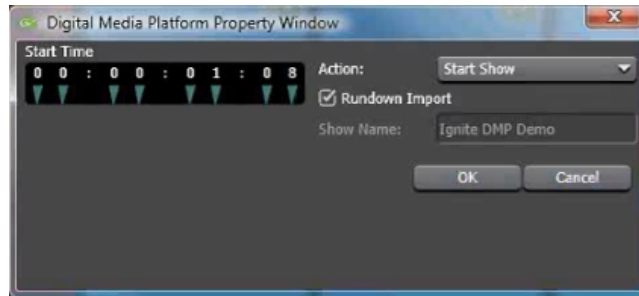
Perform show in Ignite

Before doing this task, the Newsroom Computer System rundown that contains Digital Media Platform metadata properties must be imported into Ignite.

1. On the Ignite Event Timeline, within a TME, double-click the Digital Media Platform task icon.



The **Digital Media Platform Property Window** opens.



2. Check, set, or change the associated properties as required.
3. Click **OK** or **Cancel** as appropriate.
4. Run the show in Ignite as desired.

Arrange custom metadata in Segment Template

You can add and organize metadata fields on your Segment Template to suit your workflow requirements.

1. In GV STRATUS Control Panel, click **Core | Metadata | Custom Metadata**.
2. For Entity Type, select **STRATUS Segment**.
3. Click **Add**.

The **Add Field** dialog box opens.

4. Make settings to create the desired metadata field, described as follows:

Setting or button	Description
Name	The name of the custom metadata field you are creating. This name is displayed in the GV STRATUS application.
Type	<p>The type of custom metadata field. When a type of field is used in the GV STRATUS application, it has characteristics as follows:</p> <ul style="list-style-type: none"> • Boolean: A checkbox. • Date: A drop-down calendar from which dates can be selected. Text can also be entered in the field. • Number: A field in which numbers only can be entered, up to 9 digits. • Large Number: A field in which numbers only can be entered, up to 18 digits. • Text - 50 Character Limit: A drop-down list of values, if configured. Text up to 50 characters can also be entered. • Text - 256 Character Limit: A drop-down list of values, if configured. Text up to 256 characters can also be entered. • Text - 2000 Character Limit: A drop-down list of values, if configured. Text up to 2000 characters can also be entered. • Text - Unlimited: A drop-down list of values, if configured. Text of any length can also be entered. • Tags: A field in which tags can be entered as text, with commas separating individual tags. • Rating: A row of selectable stars. • Timecode: A field in which timecode values can be entered as numbers and adjusted with up/down arrows. <p><i>NOTE: To optimize GV STRATUS application search performance, restrict the number of characters allowed in a field. Fields with a large number of characters slow search results.</i></p>
Display in Rules	If this checkbox is selected, the custom metadata field appears in the Rule Editor configuration window. A rule can then be configured according to custom metadata values.
Values	<p>If the field type is Text, the following controls configure a list of values for the field:</p> <ul style="list-style-type: none"> • Plus sign: Opens the Add Field Value dialog box in which a value is entered. • Minus sign: Removes a value from the list. • Up arrow: Moves a value up the list. • Down arrow: Moves a value down the list.

Setting or button	Description
User Expandable	If this checkbox is selected, the custom metadata values display in a drop-down list in the Inspector. You can also add other values for the custom metadata on the Properties tab of the Inspector.
Add	On Add Field dialog box. Adds the field to the list in Metadata settings while the Add Field dialog box remains open.
Close	On Add Field dialog box. Closes the Add Field dialog box without adding the field currently configured.
Update	On Modify Field dialog box. Updates the changes to the field.
Cancel	On Modify Field dialog box. Cancels changes to the field.

5. Repeat steps to add multiple metadata fields as desired.
6. Click **Inspector Tabs**.
7. For Entity Type, select **STRATUS Segment**.
8. To add a section of settings to your Segment Template, in the right-most column head click **+**.
The **Add Tab** dialog box opens.
9. Enter a name for the section you are adding and click **OK**.
A column is added for your new section.
10. In each column, select the metadata fields to appear in that section.
11. Drag and drop added columns to arrange the order of sections on your Segment Template.
The position of the **General** column is fixed and cannot be moved. The General section appears at the top of the Segment Template.
Left-to-right column position corresponds to top-to-bottom section position on the Segment Template.
12. Drag and drop rows to arrange the order of metadata fields on your Segment Template, within the sections for which they are selected.
13. Click **Save**.
14. Restart the GV STRATUS application.
15. In Inspector, click **Actions | New | Segment Template**.
A Segment Template opens and displays your arranged metadata fields.

View segmentation in GV STRATUS

Before doing this task, the show as performed in Ignite must be complete.

1. In the GV STRATUS application, view the show asset in Inspector.
2. From the **Segmentations** tab, double-click the show's segmentation.
The segmentation opens in Inspector.
3. On the **Segments** tab, view the show's segments.
Segments correspond to the Newsroom Computer System rundown.

Importing, Exporting, and Transferring

About importing, exporting, and transferring

This section defines the different terms used when transferring files or assets to or from Grass Valley systems or between Grass Valley devices.

- Import — copy files from a file system to a Grass Valley system.
- Export — copy assets from a Grass Valley system to a folder on a network drive.
- Transfer — move or copy assets within or between Grass Valley devices.
- Remote transfer — copy all or part of an asset from a remote site to the local site.

Creating an export share

This procedure provides a share on a GV STRATUS client PC so that you can use the drive as a destination for export from the GV STRATUS application.

1. On a GV STRATUS client PC, create a folder to be used for the export from the GV STRATUS application. For example, create the folder *C:\STRATUSExport*.
2. Access the folder's properties and share the folder.
3. Make sure that permissions are set to allow read and write access to the internal system account, which by default is GVAdmin.

If the GV STRATUS client PC is on a domain, it should have the internal system account, which by default is GVAdmin. If not, create the account.

You can now use the share as a destination for export from the GV STRATUS application.

Importing files to a Grass Valley system

- If importing from a folder on the GV STRATUS client PC C: drive, the drive must be a network-mapped C\$.
- File format must be supported for import to the Grass Valley system.

You can import files to a Grass Valley system through a context menu in the Navigator panel, send assets from a network-mapped drive to a bin on a Grass Valley system, or drag and drop assets directly into a folder.

This procedure describes using the context menu.

1. In the Navigator panel, select the source folder on the network-mapped drive.
2. Right-click on the asset or assets that you want to import and select the appropriate command:
 - **Copy To** or **Copy/Paste** — Copies the asset or assets, leaving the original in the source folder.
3. Select the destination bin, and click **OK**. If the destination bin is grayed out, it is not a valid destination.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

4. To monitor the status of the transfer, open the Jobs List.

NOTE: *Due to Microsoft Windows limitations, files and directories from network shares are not updated automatically.*

Related Topics

[Formats supported for import and export](#) on page 1148

[Creating an export share](#) on page 903

[Monitoring imports, exports, or transfers](#) on page 912

Exporting assets from a K2 Summit system

- If exporting to a folder on the C: drive, the drive must be a network share allowing read and write access to the internal system account, which by default is GVAdmin.

In the Navigator panel, you can export assets through a context menu, or by dragging and dropping the assets, from a Grass Valley system bin to a network-mapped drive. This procedure describes using the context menu.

1. In the Navigator panel, select the source bin on the K2 system.
2. Right-click on the asset or assets that you want to export and select the appropriate command:
 - **Copy To** or **Copy/Paste** — Copies the asset or assets, leaving the original in the source folder.

3. Select the destination bin, and click **OK**.

To export, you can also drag and drop assets into the destination bin.

The Export Options dialog box displays.

4. Use the drop-down arrow to select the export format and click **OK**.

The export is initiated. If exporting multiple assets, transfer jobs are queued.
5. To monitor the status of the export, open the Jobs List.

Related Topics

[Formats supported for import and export](#) on page 1148

[Creating an export share](#) on page 903

[Monitoring imports, exports, or transfers](#) on page 912

Transferring between bins using drag and drop

You can move and copy assets to and from bins on a Grass Valley system. You can drag and drop the assets from one bin to another, or you can use the context menu. To move or overwrite (delete) an asset, you must be assigned with **Move Rights**, **Delete Rights** or the **Media Manager** role in GV STRATUS Control Panel. If not assigned, menu selections and operations are disabled. Where appropriate, the copy operation is substituted for the move operation.

1. In the Navigator panel, select the source bin on the Grass Valley system.

2. To transfer with drag and drop, do the following:
 - a) In the Navigator panel, expose the destination bin on the Grass Valley system.
 - b) Select one or more assets.

NOTE: You can also select an asset that is still recording.
 - c) Drag the asset or assets from source to destination bin.

Cursor indicators identify a move, copy, or disallowed operation. By default, assets are moved. If the move operation is not allowed, only the copy operation is available.
 - d) If both move and copy are available, you can hold down a modifier key to specify the desired operation:
 - **Shift:** Move
 - **Ctrl:** Copy
 - e) Drop the asset or assets on the destination bin.
3. If prompted by a **Rename Policy** dialog box, do the following:
 - a) Specify the rename or overwrite behavior if the assets exists.

This behavior applies when you transfer a single asset or multiple assets.

To overwrite an asset, you must be assigned **Move Rights**, **Delete Rights**, or the **Media Manager** role in GV STRATUS Control Panel. If not assigned, selections are disabled.
 - b) If you want this behavior to apply to all transfer operations in the future without being prompted, select the **Do not ask again** box.

User Preferences allows you to reset hidden windows to display the **Rename Policy** dialog box again.
 - c) Click **OK**.

The **Rename Policy** dialog box is available only if you have the Media Manager role or the Delete Rights role.
4. If prompted by a **Security** dialog box, configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

To monitor the status of the transfer, open the Jobs List.

Transferring assets between bins using the context menu

You can move and copy assets to and from bins on a Grass Valley system. You can drag and drop the assets from one bin to another, or you can use the context menu. To move or overwrite (delete) an asset, you must be assigned with **Move Rights**, **Delete Rights** or the **Media Manager** role in GV STRATUS Control Panel. If not assigned, menu selections and operations are disabled. Where appropriate, the copy operation is substituted for the move operation.

1. In the Navigator panel, select the source bin on the Grass Valley system.

2. To transfer with the context menu, do the following:
 - a) In the Asset List, right-click on the asset or assets that you want to transfer and select a command as follows:
 - **Copy** — Copies the asset or assets, leaving the original in the source bin.
 - **Copy To** — Copies the asset or assets, leaving the original in the source bin. Opens a **Copy To/Move To** dialog box in which you can browse to the desired destination bin.
 - **Move To** — Moves the asset or assets from one bin to another, removing the original from the source bin. Opens a dialog box in which you can browse to the desired destination bin.
 - b) Select the destination bin or right-click and select **Paste**.

If GV STRATUS security is enforced, settings are available as follows:

 - On the **Copy To/Move To** dialog box, if you have adequate permissions, click **Security** and configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.

3. If prompted by a **Rename Policy** dialog box, do the following:
 - a) Specify the rename or overwrite behavior if the assets exists.

This behavior applies when you transfer a single asset or multiple assets.

To overwrite an asset, you must be assigned **Move Rights**, **Delete Rights**, or the **Media Manager** role in GV STRATUS Control Panel. If not assigned, selections are disabled.
 - b) If you want this behavior to apply to all transfer operations in the future without being prompted, select the **Do not ask again** box.

User Preferences allows you to reset hidden windows to display the **Rename Policy** dialog box again.
 - c) Click **OK**.

The **Rename Policy** dialog box is available only if you have the Media Manager role or the Delete Rights role.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.


To monitor the status of the transfer, open the Jobs List.

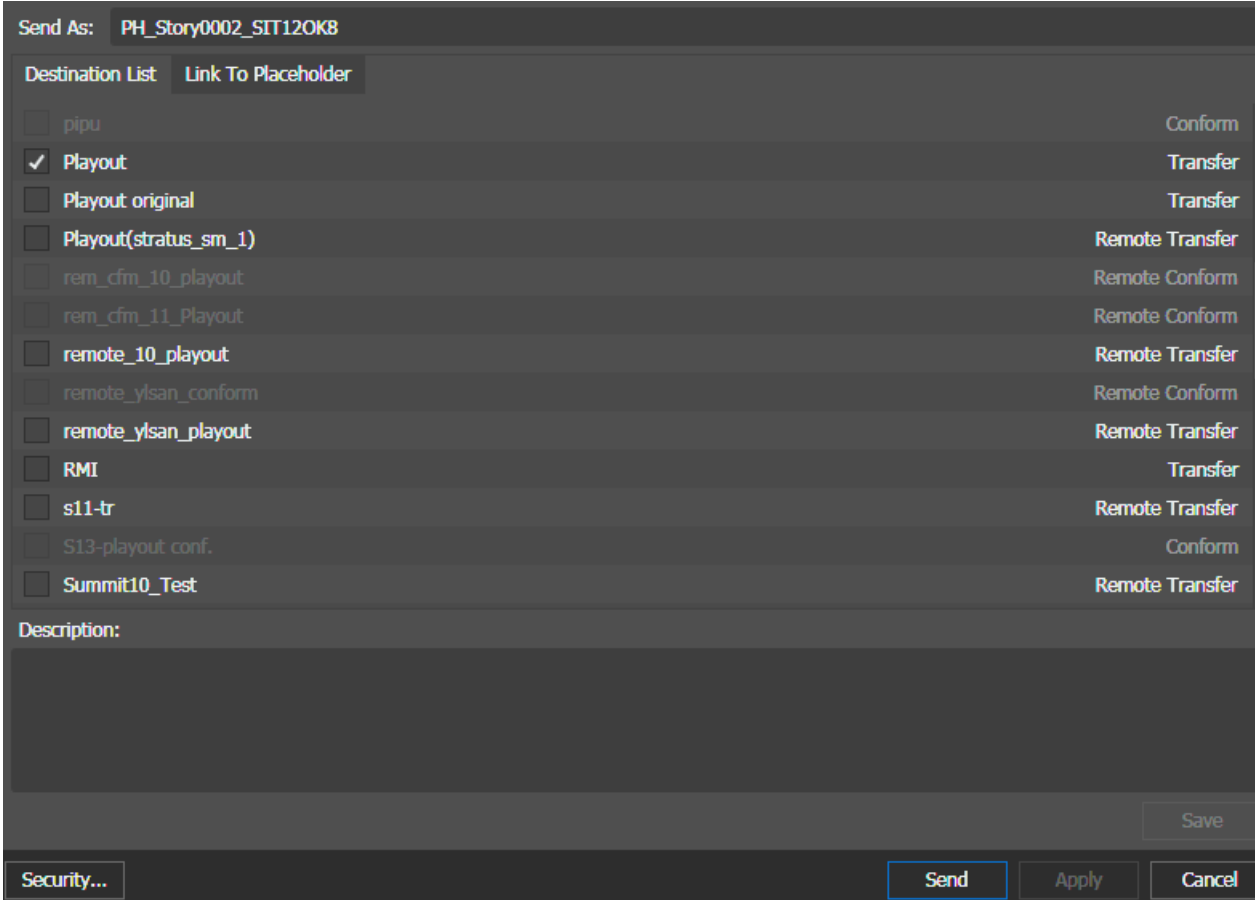
Transferring using Send Destination

You can transfer assets to pre-configured destination locations using the Send Destination feature. The destination locations are configured in GV STRATUS Control Panel. The only formats available are those compatible with the Reference Standard currently configured in Format settings. If the send destination is configured for conform, a complex asset can be flattened as part of the send operation to become a simple clip. You can configure the format of flattened asset in the Format setting of GV STRATUS Control Panel. You can also set the start timecode of the resultant simple clip according to EDIUS Start Timecode setting in GV STRATUS Control Panel, if **Restripe Timecode** is selected during Send Destination configuration. If not selected, the original timecode of the clip is preserved.

1. In the Navigator panel, select the source bin location.

The assets in the bin are displayed in an Asset List.

2. Right-click on the asset that you want to transfer and select **Send** ( **F11**).
The Send Destinations dialog box opens and displays a list of destinations.



Send As: PH_Story0002_SIT120K8

Destination List Link To Placeholder

<input type="checkbox"/> pipu	Conform
<input checked="" type="checkbox"/> Playout	Transfer
<input type="checkbox"/> Playout original	Transfer
<input type="checkbox"/> Playout(stratus_sm_1)	Remote Transfer
<input type="checkbox"/> rem_cfm_10_playout	Remote Conform
<input type="checkbox"/> rem_cfm_11_Playout	Remote Conform
<input type="checkbox"/> remote_10_playout	Remote Transfer
<input type="checkbox"/> remote_ylsan_conform	Remote Conform
<input type="checkbox"/> remote_ylsan_playout	Remote Transfer
<input type="checkbox"/> RMI	Transfer
<input type="checkbox"/> s11-tr	Remote Transfer
<input type="checkbox"/> S13-playout conf.	Conform
<input type="checkbox"/> Summit10_Test	Remote Transfer

Description:

Save

Security... Send Apply Cancel

3. If desired, in the **Send As** field, enter a different name for the asset at the destination location.
4. In the **Destination List**, select one from the following:
 - Select one or more transfer destinations
 - Select one or more conform destinations

You are not allowed to select both transfer and conform destinations at the same time.

5. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
6. If you have adequate permissions, click **Security** and configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.
7. Click **Send**.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

To monitor the status of the transfer, open the Jobs List.

Transferring an asset from a remote site

Make sure no other asset with the same name exists in the local destination folder. If there is, rename the local asset before starting the remote asset transfer or select another local destination folder.

1. In Navigator, browse a remote GV STRATUS site and load a remote clip into Inspector.
2. If you want to transfer only part of the asset, in Inspector set Mark In and Mark Out points to define the portion you want to transfer.
3. In Inspector, click **Actions | Copy To**.

A **Copy To** dialog box opens.
4. Select one of the following:
 - **Entire Asset**: Copies the entire asset from the remote site to the local site.
 - **Partial Asset**: Copies the portion of the asset between Mark In and Mark Out points from the remote site to the local site.
5. Select the destination on the local GV STRATUS to which the asset is going to be copied.
6. Click **OK**.

The asset is copied from the remote site to the local site. Progress is reported in the Monitors Jobs List.

Preservation of asset metadata after the remote transfer is as follows:

	Preserved	Not preserved
Asset metadata	<ul style="list-style-type: none"> • Protection Status • Rating • Tags • Approval Status • Description • Angle • Comments • Markers/Keywords 	<ul style="list-style-type: none"> • Restored Date • Rules Applied • Import Location • Created Date - is set to the date and time when the new clip is created. • Modified Date - is set to the date and time when the new clip is modified. It is also set to the same date and time of Created Date when first created.

Transferring an asset to a remote site

1. In the Navigator panel, select the source bin on the Grass Valley system.
2. Do the following:
 - a) In the Asset List, right-click on the asset or assets that you want to transfer and select a command as follows:
 - **Copy** — Copies the asset or assets, leaving the original in the source bin.
 - **Copy To** — Copies the asset or assets, leaving the original in the source bin. Opens a **Copy To** dialog box in which you can browse to the desired destination bin.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

NOTE: The transfer to a remote site always overwrites an asset if the remote site account does not have media manager role.


To monitor the status of the transfer, open the Jobs List.

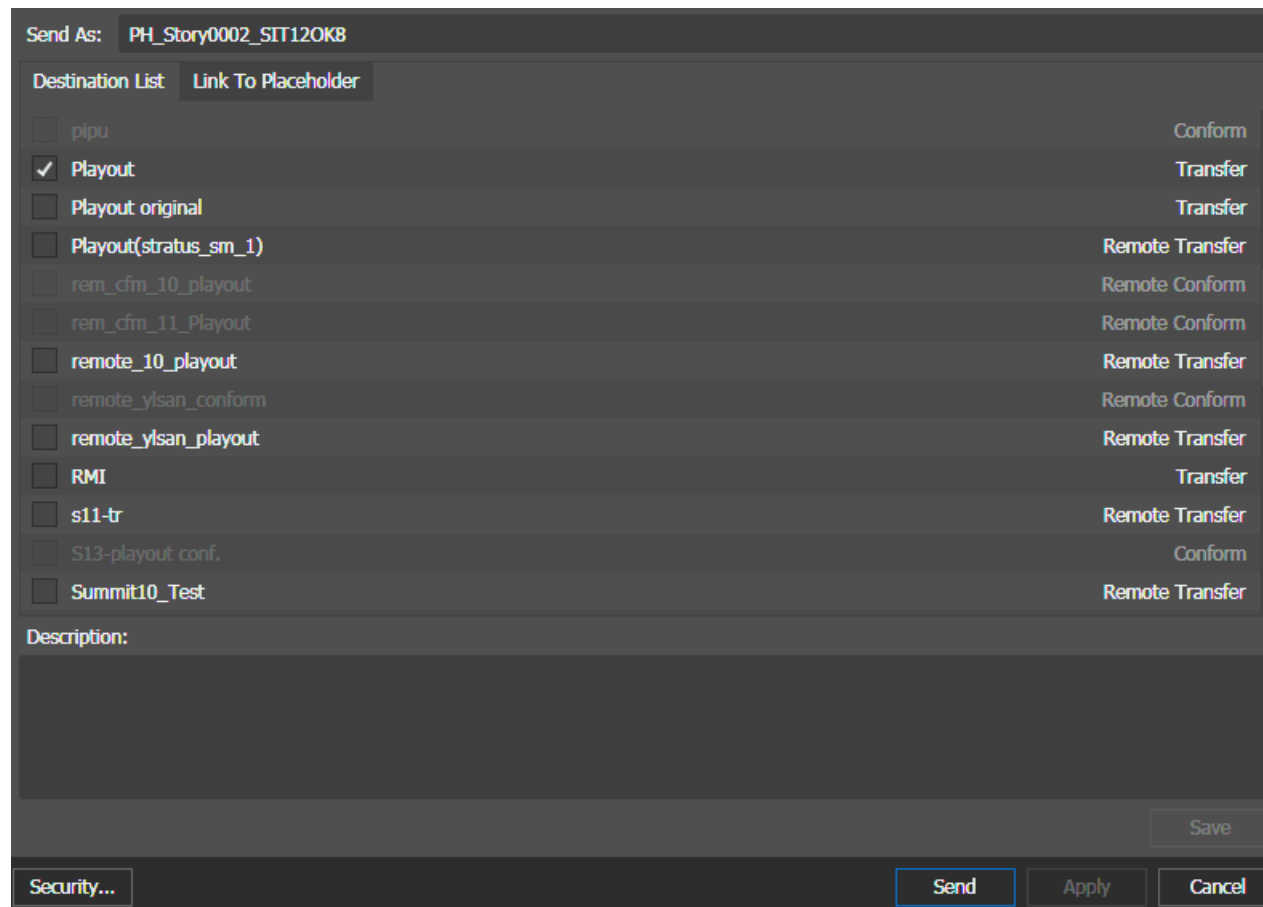
Sending assets for playout

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can send a completed clip or and edited sequence for playback in your operation. You can transfer assets to pre-configured destination locations using the Send Destination feature. The destination locations are configured in GV STRATUS Control Panel. The only formats available are those compatible with the Reference Standard currently configured in Format settings. Before sending the clip, you can link your asset to a placeholder.

1. In the Navigator panel, select the source bin location.
The assets in the bin are displayed in an Asset List.

- Right-click on the asset that you want to transfer and select **Send** ( **F11**).
The Send Destinations dialog box opens and displays a list of destinations.



- If desired, in the **Send As** field, enter a different name for the asset at the destination location.
If the asset is previously linked to a placeholder, the name of the placeholder appears in the **Send As** field. However, you can still modify the name of the placeholder in this dialog.
- In the **Destination List**, select one from the following:
 - Select one or more transfer destinations
 - Select one or more conform destinations

You are not allowed to select both transfer and conform destinations at the same time.

5. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
6. If you have adequate permissions, click **Security** and configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.
7. Click **Send**.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

The asset is sent to the playout server. The placeholder status changes to **READY** in the Assignment List, and the number of missing items in the Assignment List decreases by one.

To monitor the status of the transfer, open the Jobs List.

Monitoring imports, exports, or transfers

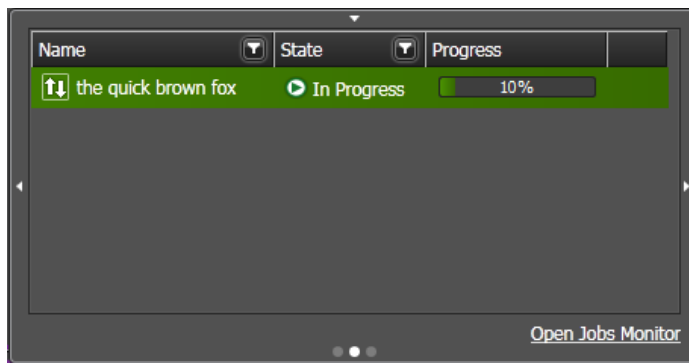
You can monitor the status of import, export, transfer, conform, and transcode jobs.


1. To monitor only the recent transfer jobs that you have triggered, do the following:
 - a) In the lower-right GV STRATUS application Status bar, click the **My Transfer Jobs** button.



If there are no recent transfer jobs that you have triggered, the icon for the button is not displayed.

- b) The Notification pop-up panel opens to the My Transfer Jobs page.



- c) To close the Notification pop-up panel, click the down-arrow on the top edge of the panel or click the **My Transfer Jobs** button  again.
 - d) To view a longer history and more information for all GV STRATUS system jobs, view the Jobs List by doing one of the following:
 - On the My Transfer Jobs page, click **Open Jobs Monitor**.
 - Proceed with the next step in this task.

- To monitor GV STRATUS system jobs triggered by you and by others, in the GV STRATUS application Navigator panel, do one of the following according to the types of jobs you are monitoring:

- Double-click **Monitors | Jobs** and sort on the **Type** column.
- Double-click one of the nodes under **Monitors | Jobs**.

Name	State	Progress	Type	Created Date	Modified Date
720p50XdcamHd422	Complete	100%	Transfer Job	20/11/2015 4:05:35 PM	20/11/2015 4:06:28 PM
4395TV - 16Track	Failed	0%	Transfer Job	19/11/2015 3:59:41 PM	19/11/2015 3:59:48 PM
FUTURE-SINGLEa_16...	Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
..@236_SIT320XF	Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
..@11_SIT320XE	Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:09 PM
A127 ~(74)	Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:10 PM
A127 ~(78)(B)	Complete	100%	Transfer Job	19/11/2015 3:59:04 PM	19/11/2015 3:59:11 PM
A127 ~(78)(A)	Complete	100%	Transfer Job	19/11/2015 3:59:03 PM	19/11/2015 3:59:06 PM

The Jobs List displays GV STRATUS operations that can be monitored. Operations that are currently in progress or have failed are also displayed.

Detailed transcode jobs are displayed if configured in General User Preferences.

You can also click the drop-down to select the maximum number of jobs to be displayed.


The maximum number of jobs are limited to 2000 in the GV STRATUS 32-bit application, and 5000 in the 64-bit application.

- Click the drop-down on the toolbar to filter the list and choose the type of job you want to monitor.
- To change the position of an upcoming job in queue of jobs waiting to be processed, right-click an upcoming job, select **Change Priority**, and then select one of the following:

Options	Description
High	The job moves to the top of the queue, to be processed next, immediately after the currently processing job completes.
Normal	The job remains at its current position in the queue.
Low	The job moves to the bottom of the queue, to be processed last.

You must be assigned the Queue Management role in GV STRATUS Control Panel in order to change job priority. If not assigned, menu selections are disabled.

- To stop the GV STRATUS system from running an upcoming job, right-click an upcoming job and select **Cancel**.

6. To navigate to the asset of a specific job, do one of the following:
 - Right-click on the job and select **View Related | Asset**.
The asset displays in the Asset List. Double-click the asset to view it in the Inspector.
 - Double-click the job in Jobs Monitor.
The job and asset properties display on separate tabs in the Inspector. Click on the **Asset** tab, and double-click the asset to view it in the Inspector.
7. To remove a completed job from the list, right-click a completed job and select **Delete**.
8. Click the **Refresh** button  if the Jobs List is not updated.

Related Topics


[Configuring User Preference](#) on page 1114

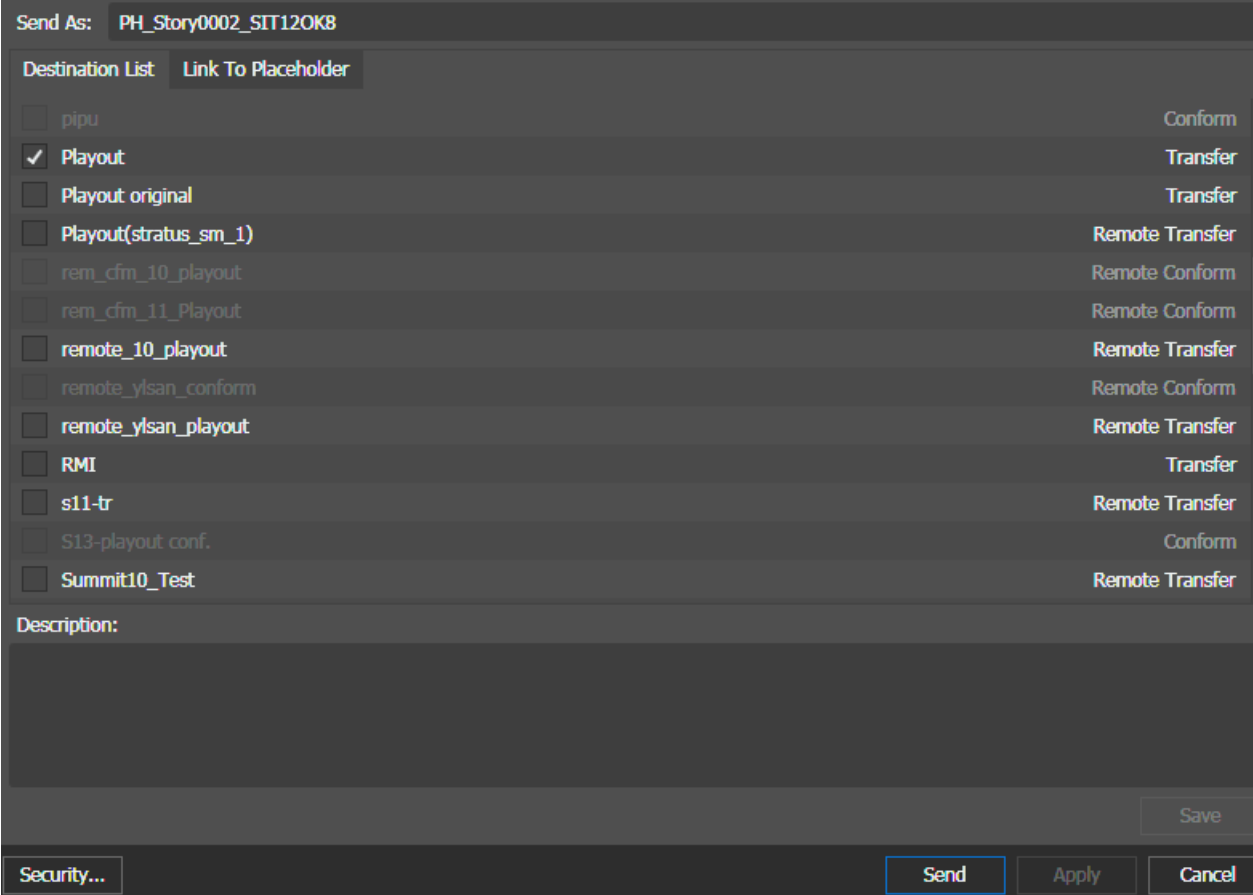
Conforming a complex asset to a simple clip

Before you can do this task, in the GV STRATUS Control Panel a destination must be configured to conform on send.

You can transfer assets to pre-configured destination locations using the Send Destination feature. The destination locations are configured in GV STRATUS Control Panel. The only formats available are those compatible with the Reference Standard currently configured in Format settings. If the send destination is configured for conform, a complex asset can be flattened as part of the send operation to become a simple clip. You can configure the format of flattened asset in the Format setting of GV STRATUS Control Panel. You can also set the start timecode of the resultant simple clip according to EDIUS Start Timecode setting in GV STRATUS Control Panel, if **RestripeTimecode** is selected during Send Destination configuration. If not selected, the original timecode of the clip is preserved.

1. In the Navigator panel, select the source bin location.
The assets in the bin are displayed in an Asset List.

2. Right-click on the asset that you want to transfer and select **Send** ( **F11**).
The Send Destinations dialog box opens and displays a list of destinations.



Send As: PH_Story0002_SIT120K8

Destination List Link To Placeholder

<input type="checkbox"/> pipu	Conform
<input checked="" type="checkbox"/> Playout	Transfer
<input type="checkbox"/> Playout original	Transfer
<input type="checkbox"/> Playout(stratus_sm_1)	Remote Transfer
<input type="checkbox"/> rem_cfm_10_playout	Remote Conform
<input type="checkbox"/> rem_cfm_11_Playout	Remote Conform
<input type="checkbox"/> remote_10_playout	Remote Transfer
<input type="checkbox"/> remote_ylsan_conform	Remote Conform
<input type="checkbox"/> remote_ylsan_playout	Remote Transfer
<input type="checkbox"/> RMI	Transfer
<input type="checkbox"/> s11-tr	Remote Transfer
<input type="checkbox"/> S13-playout conf.	Conform
<input type="checkbox"/> Summit10_Test	Remote Transfer

Description:

Save

Security... Send Apply Cancel

3. If desired, in the **Send As** field, enter a different name for the asset at the destination location.
4. In the **Destination List**, select destinations as follows:

- Select one or more conform destinations

You cannot select both transfer and conform destinations at the same time.

5. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
6. If you have adequate permissions, click **Security** and configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.
7. Click **Send**.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

To monitor the status of the transfer, open the Jobs List.

Considerations for conforming assets

Depending on formats and the application triggering a conform job, the resultant simple clip can have different specifications.

When a source complex asset (sequence or list) is conformed, the conform job falls into one of the following categories:

- Same-format:
 - The source format is the same for all clips in the complex asset AND the destination format to which the asset is conformed is also that same format
- Mixed-format:
 - The source format is the same for all clips in the complex asset AND the destination format to which the asset is conformed is a different format.
 - -OR-
 - There are at least two different source formats in the complex asset.

Formats include SD, 720p, and 1080i.

NOTE: Conform jobs for different video standards (such as PAL to NTSC or NTSC to PAL) are not supported in GV STRATUS.

The following are examples:

- When a source sequence or list with multiple SD clips is conformed to a simple SD clip, it is a same-format conform job.
- When that same source sequence or list with multiple SD clips is conformed to a simple 720p (HD) clip, it is a mixed-format conform job.
- When a source sequence or list with at least one 720p clip and at least one 1080i clip is conformed, it always a mixed-format conform job, regardless of the destination format to which it is conformed.

	Same-format job	Mixed-format job
Ancillary data	Inherited	<p>Inherited from source formats that are the same as the destination format.</p> <p>Dropped in these conditions below:</p> <ul style="list-style-type: none"> • When conforming from progressive to interlace or vice versa. • When conforming from 4:3 to 16:9 aspect ratio format or vice versa. • When conforming to multiple destinations with different format for each destination.

For all conform jobs, the start timecode of the resultant simple clip is based on the GV STRATUS Control Panel EDIUS XS **Start Timecode** setting.

Related Topics

[EDIUS Project Settings](#) on page 117

About archiving assets

You can store your assets on a permanent archive, thus allowing you to remove high-resolution material from your K2 system. You can archive a single asset or several assets at once via FTP to the archive location. During the archiving process, you can monitor the progress on the Jobs panel. Archiving lets you optionally remove assets that are not for immediate playout from your online location, thus also freeing your K2 system storage.

Depending on your system, you can archive assets into:

- Front Porch Digital DIVA archive
- SGL FlashNet archive
- Masstech archive
- Filezilla server

- Nearline K2 SAN
- Common RESTful archive server

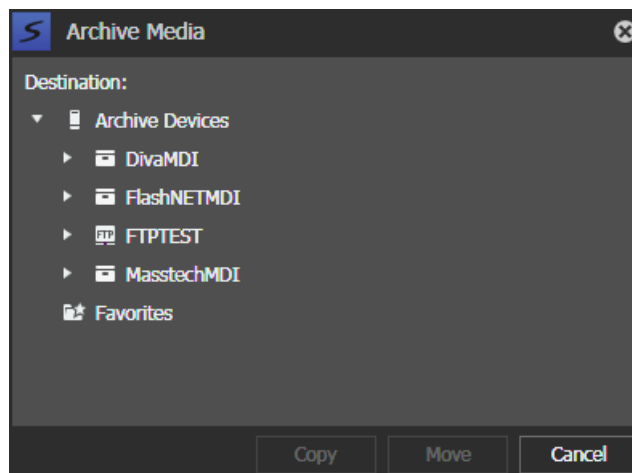
Refer to this Topic Library for information on supported formats.

Archiving an asset


You can only archive an asset if you are assigned with the archive role. When you want to archive an asset, you can choose whether to copy or move the asset to an archive location.

NOTE: *A list must be conformed before it can be archived. If a rule is used to archive a list, the list is conformed by default.*

1. In the Asset List panel, select an asset.
2. Right-click and select **Archive Media**.
3. Select the archive location.



NOTE: *You cannot archive two assets with the same name at the same archive location. But you can select Rename Automatically in the Archive Rename Policy dialog box.*

 **Tip:** *If you plan to archive or transfer assets frequently to the same folder, add that folder to your favorites. This allows you to select that folder directly from the Favorites menu instead of browsing to the archive location.*

4. Click **Copy** or **Move**.

NOTE: *A copy operation archives a copy of the asset to the archive location. A move operation archives the asset and deletes it from its online location.*

You can also archive an asset via copy and paste, or drag and drop assets directly into a bin in your archive directory.

5. From the Navigator, select **Monitors | Jobs** to track the progress of the archive operation.

If the Jobs List is not updated, click the **Refresh** button. 

Upon completion of the archive operation, the **High-Res Status** column in the Asset List indicates the online or archive status of the asset.

A protected asset can be archived via the copy operation, but a move operation is not allowed as the high resolution media cannot be deleted.

Related Topics

[Asset indicators](#) on page 783

[Archive system set up process](#) on page 695

Searching archived assets

Use the advanced search tool to find specific content that have been archived.

Search for archived assets by setting a search condition for High-Res Status in the advanced search. This search finds archived assets, and also assets with both archived and online status.

Related Topics

[Searching assets with the advanced search tool](#) on page 798

About restoring assets

Once your assets are transferred to an archive system, you can restore those archived assets to the K2 Summit/SAN system as needed.

You can restore the whole asset, or only part of the asset. Partial restore is based on the asset's mark in and mark out points. To ensure that you select the correct asset to restore, preview the proxy of the asset in the Inspector panel or the Source Viewer tool.

If an asset is archived by other means than the GV STRATUS application, you can still restore the asset to the K2 Summit/SAN system. The proxy is automatically generated for the restored asset if you have a GV STRATUS server doing proxy encoding in your operation.

Refer to this Topic Library for information on supported formats.

Related Topics

[Viewing a video asset](#) on page 802

Restoring archived assets

You can restore assets if you are assigned with the restore role. Only archived assets can have their high resolution material restored into the K2 Summit/SAN system. However, you cannot restore or partial restore an asset if the high resolution material for that asset already exists in the K2 Summit/SAN system.

If you are logged on with the Media Manager role assigned, permission is granted to move assets from an archive system to the GV STRATUS system. Without this permission, assets may be copied but not moved.


1. In the Asset List panel, select the asset or assets you want to restore as follows:

- Right-click a single asset to open a context menu.
- Use **Ctrl + Click** to select multiple assets, then right-click to open a context menu.

2. In the context menu, select **Restore Media**.

The Restore Media dialog opens.

3. Select the desired restore destination and click **OK**.
4. From the Navigator, select **Monitors | Jobs** to track the progress of the restore operation.

If the Jobs List is not updated, click the **Refresh** button. 

Upon completion of the restore operation, the Asset List displays a High-Res Status indicator.

Related Topics

[Asset indicators](#) on page 783

Partially restoring an asset

You can partially restore an asset to get a specific part of the high resolution material from the archive system and restore it into the K2 Summit/SAN system.

Refer to this Topic Library for information on supported formats.

1. Load the asset you are partially restoring into the Inspector.
2. Set Mark In and Mark Out points on the asset.
3. Click **Actions** on the Inspector panel and select **Restore Media**.

The Restore Media dialog opens.

4. Select **Partial Asset** to partially restore the asset.

Verify that the mark in and mark out points specified on the Restore Media dialog are correct.

5. Enter a new name in the **Asset Name** box if desired.

If not, **_PR** is appended to the name of the asset by default to indicate partial restore.

6. Select the desired destination to restore the asset.
7. Click **OK**.

NOTE: *Restore operations are not always immediate.*

8. Verify the status of your restore operation and the names of the assets that are restored by launching **Monitors | Jobs** from the Navigator.

Upon completion of the restore operation, the Asset List displays a High-Res Status indicator.

A partially restored asset uses the originally created proxy. The Inspector panel Associations tab provides information on paths, association types, and device locations.

Related Topics

[Using mark-in and mark-out points](#) on page 939

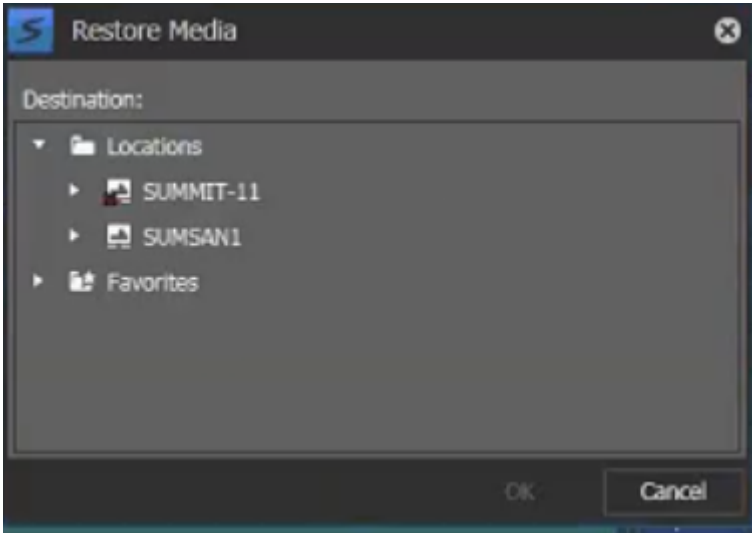
[Asset indicators](#) on page 783

Restoring assets from keywords

You can restore assets if you are assigned with the restore role.

You can also partially restore assets from existing keywords and restore them into the K2 Summit/SAN system.

1. In the Asset List panel, select an archived asset with keywords that you want to restore.
The asset loads in the Inspector.
2. In the Inspector panel, click on the **Markers** tab.
The list of markers and keywords displays on the **Markers** tab.
3. Select a keyword or multiple keywords as follows:
 - Right-click a single keyword to open a context menu.
 - Use **Ctrl + Click** to select multiple keywords, then right-click to open a context menu.
4. In the context menu, select **Restore from Archive**.
The Restore Media dialog opens.



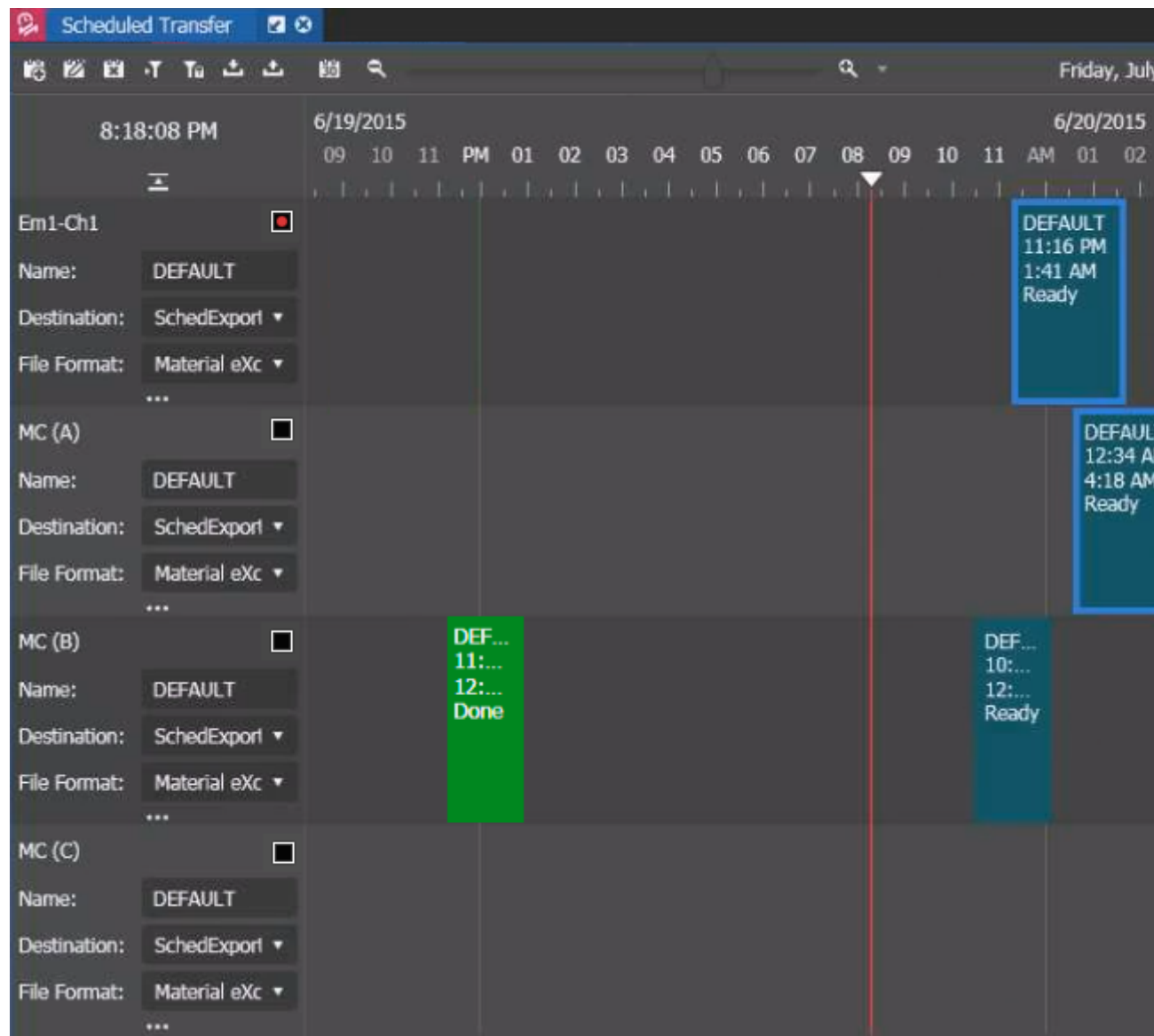
5. Select the desired restore destination and click **OK**.
You can select whether to rename the restored asset automatically, or to overwrite an existing asset with the restored asset.
Assets from those keywords are restored at the selected destination. Each keyword name is appended to the asset name to differentiate restored assets from multiple keywords.

Thumbnail	Name	Description	Created	Duration	Mark In	Mark Out
	drew					
	Drew_K2_0322		14/10/20...	00:00:00,00	00:00:00,00	00:00:00,00
	Drew_Key1_0205		14/10/20...	00:00:08,11	00:00:00,05	00:00:08,16

Upon completion of the restore operation, the Asset List displays a High-Res Status indicator.

The Scheduled Transfer tool

The Scheduled Transfer tool allows you to schedule asset transfers into a repository. The Scheduled Transfer tool appears in the application as a panel that can be accessed from the Window menu or the tools section of the Navigator panel.



The Scheduled Transfer tool features are as follows:

- Clock — Shows current time according to the system time of the GV STRATUS core server. If the client PC time is in a different timezone than the server, the server time is converted to the client PC timezone.
- Timeline — Shows dates and hours to guide transfer scheduling. A maximum of four days' worth of events can be shown on the timeline at any given time.













- Available channels — Shows channels that are configured to transfer assets according to the recording schedule.
- Channel status indicator — Shows channel status whether it's idle, cued, recording, or playing.
- Scheduler toolbar — Consists of buttons for scheduling and viewing transfer events.
- Current time indicator — Moves along the timeline according to the current time.
- Scheduled events — Shows events that have been added to the Scheduled Transfer tool.
- Scheduled Transfer engine status — Shows the status of Scheduled Transfer engine.

With the tool, you can schedule transfer events in advance, by specifying the date, time, and duration of the event.

By default, the Scheduled Transfer tool opens to the current day, date, and time according to your system time.

Scheduled Transfer buttons

These buttons located on the Scheduled Transfer toolbar let you perform various functions.

-  **Add Event:** Adds a scheduled event.
-  **Modify Event:** Modifies the selected event.
-  **Delete Event:** Deletes the selected event.
-  **Go to Current:** Goes to the current time of day in the timeline.
-  **Toggle TimeLock:** Goes to the current time of the day in the timeline and turns on the timelock mode.
-  **Import:** Imports selected transfer events to the assigned bin.
-  **Export:** Exports selected transfer events to the assigned bin.
-  **Go to Date:** Goes to the current day in a calendar.
-  **Zoom In:** Zooms in the view of the timeline. The slider between **Zoom In** and **Zoom Out** also zooms the view of the timeline.
-  **Zoom Out:** Zooms out the view of the timeline. The slider between **Zoom In** and **Zoom Out** also zooms the view of the timeline.
-  **Record details toggle:** Toggles display of the record details for all channels.
-  **Expand:** Shows/hides settings and lists.

Transfer Event status colors

Each event displays in a color that identifies its status in the Scheduled Transfer tool.



Event Color	Event Status
Teal	READY
Red	TRANSFERRING
Green	SUCCESSFULLY TRANSFERRED

Event Color	Event Status
Grey	NO ACTION MODE
Black	TRANSFER FAILED

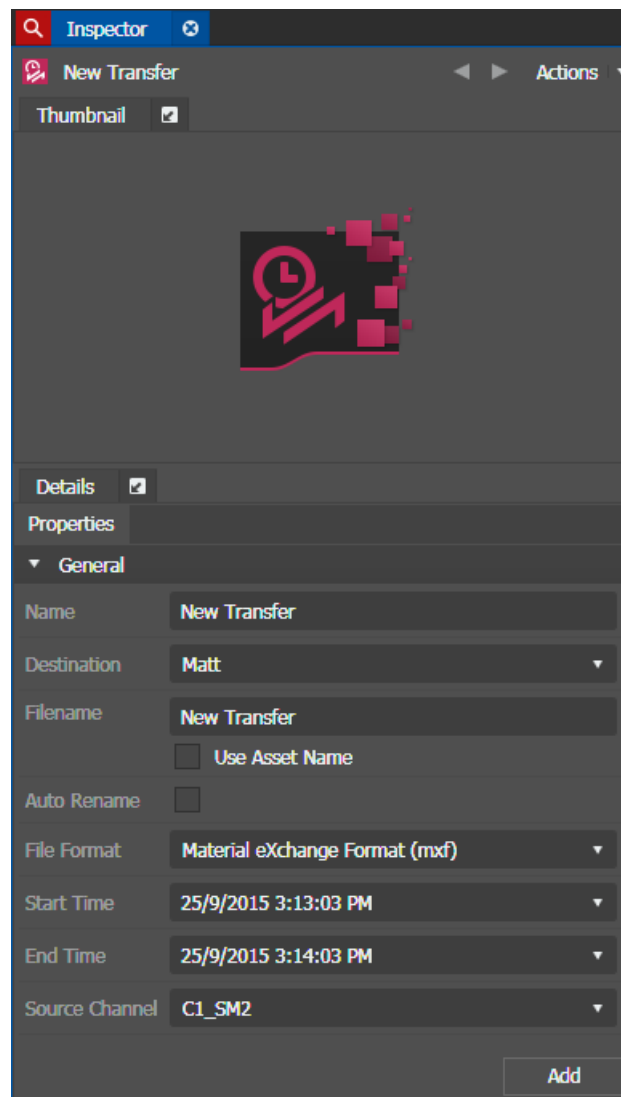
Adding a transfer event

To schedule transfers, add an event in the Scheduled Transfer tool for each asset that needs to be transferred.

1. Do one of the following:

- Click the **Add Event** button. 
- Right-click and select **Add Event**. ( **A**)

The Inspector panel loads event properties.



2. Fill in properties of your event according to the following:

- a) Name — Enter a name for the transfer event that displays on the Scheduled Transfer tool.
- b) Destination — Select a destination bin for the transfer from the drop-down list.

Destination availability depends on the location configuration of Scheduled Transfer in your GV STRATUS Control Panel. If the bin has security access permissions configured, the recorded clip inherits those permissions.

- c) File Name — Enter the name of the file to be transferred. If you want the file name to be the same as the asset name, select the **Use Asset Name** checkbox.
- d) Auto Rename — Select the checkbox if you want the file name to be renamed automatically if the same name exists at the destination. Additional suffix will be automatically added to the file name if you selected the checkbox.
- e) File Format — Select the format of the file to be transferred from the following:
 - GXF: General Exchange Format
 - MXF: Material Exchange Format
 - MOV: QuickTime Movie
 - MOV Reference: QuickTime Reference Movie
- f) Start Time — Enter the date and time you want the transfer to start. The default date is the current date. You can also select your start date from the calendar when you click the drop-down arrow. Enter the time using the format **hour:minutes:seconds**. However, overlapping events are not supported.

NOTE: The timecode source of the K2 channel must be set to Time of Day for scheduled transfers to work. Time of Day is usually from the Windows system clock, or from LTC/VITC timecode sources that are set to the system clock.

Transfers will only be successful if a matching time is found between the event time and the clip timecode.

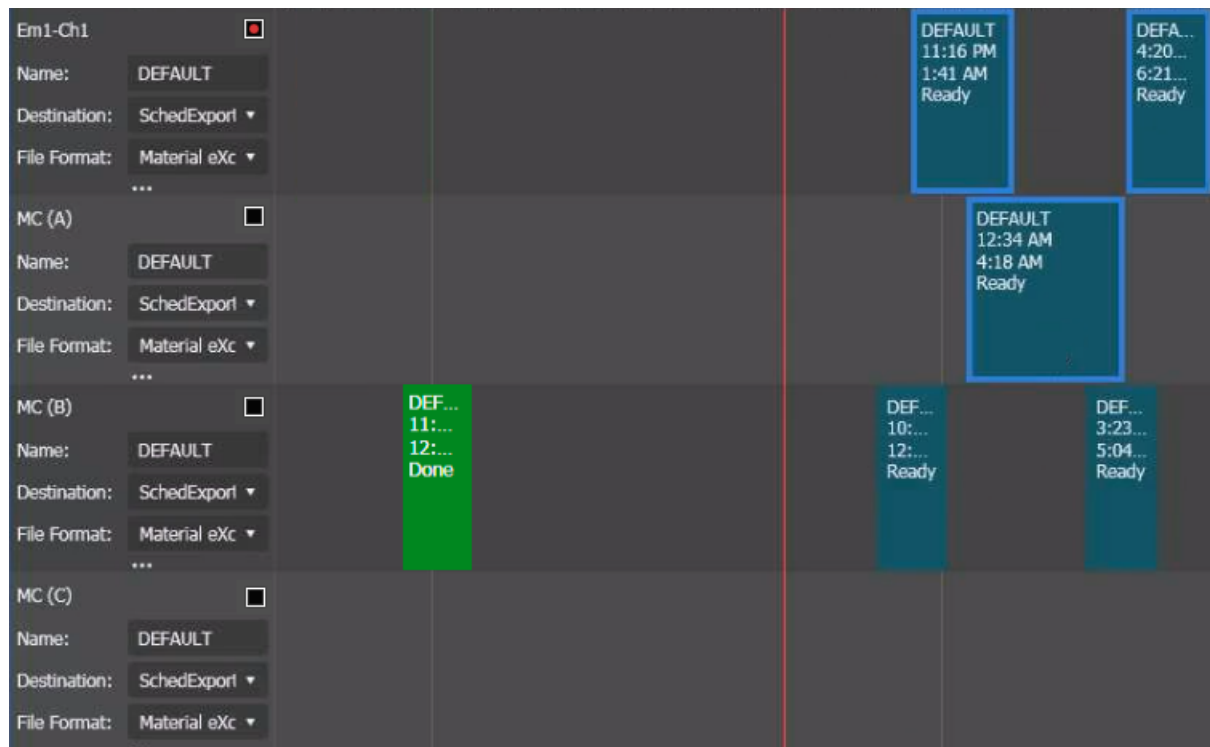
Clock synchronization is required on all GV STRATUS servers and K2 Summit/SAN systems. Ensure that K2 Summit/SAN systems are locked to house reference and clocks on all machines are kept in sync. This is especially important as systems must be kept in sync between the GV STRATUS Core server and K2 Summit/SAN system channels.

- g) End Time — Enter the date and time you want the transfer to end. You can also select your end date from the calendar when you click the drop-down arrow.

NOTE: The event duration must be more than 1 minute to ensure frame accurate transfers in your operation.

- h) Source Channel — Channel availability depends on the configuration in your system. You can only see and select channels that have been configured for the Scheduled Transfer tool. Make sure that the channel is not in Continuous Record mode.

If configured as a Multicam channel in the GV STRATUS Control Panel, two or three input sources can be selected depending on your configuration. You can also schedule overlapping event transfers on two or three different input sources within the same Multicam channel.



By default, the Scheduled Transfer tool opens to the current day, date, and time according to your system time. The time of day format within the Scheduled Transfer is directly from the current time of day format of your machine.

To set the 24 hour format to your Scheduled Transfer, change the time format of your Windows client by selecting **Start | Control Panel | Clock, Language and Region**, and change the time format accordingly.

NOTE: *Changes to the Scheduled Transfer's time format can only be seen after a restart of the GV STRATUS application.*

- Click the **Add** button in the Inspector panel.
The event is added to the Scheduled Transfer tool.
- To add another transfer event, in the Inspector panel, fill in properties and other information as in the steps earlier in this procedure, then click the **Add** button.

To delete an event, refer to "Deleting an event" topic.

Related Topics


[Deleting an event](#) on page 850

[Configure Scheduled Transfer send locations](#) on page 336

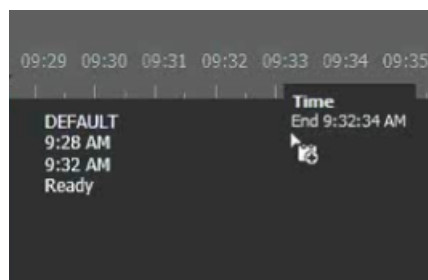
Adding a transfer event using Quick Schedule

With Quick Schedule, you can add events directly on the scheduling interface.

- Right-click on a channel timeline and select **Quick Schedule**. (📅 Q)

Once you are in the Quick Schedule mode, your mouse pointer turns into the **Add Event** icon  with time tooltip for your reference.

- Click to select the start time, and drag your mouse to the right to select the end time.



- Release the mouse after the end time is selected.

The event displays on the timeline of the Scheduled Transfer tool.

Each channel default options are included in the event properties when events are created on the respective channel's timeline. The Auto-rename flag is also checked by default for all Quick Schedule events.

- Right-click on the event, and select **Modify Event** to add other properties to the event.

The Inspector loads the event properties.

- Edit properties of the event.
- Click the **Modify** button to commit your changes.



The event adds to the Scheduled Transfer tool with a **Ready** status.

Modifying a transfer event

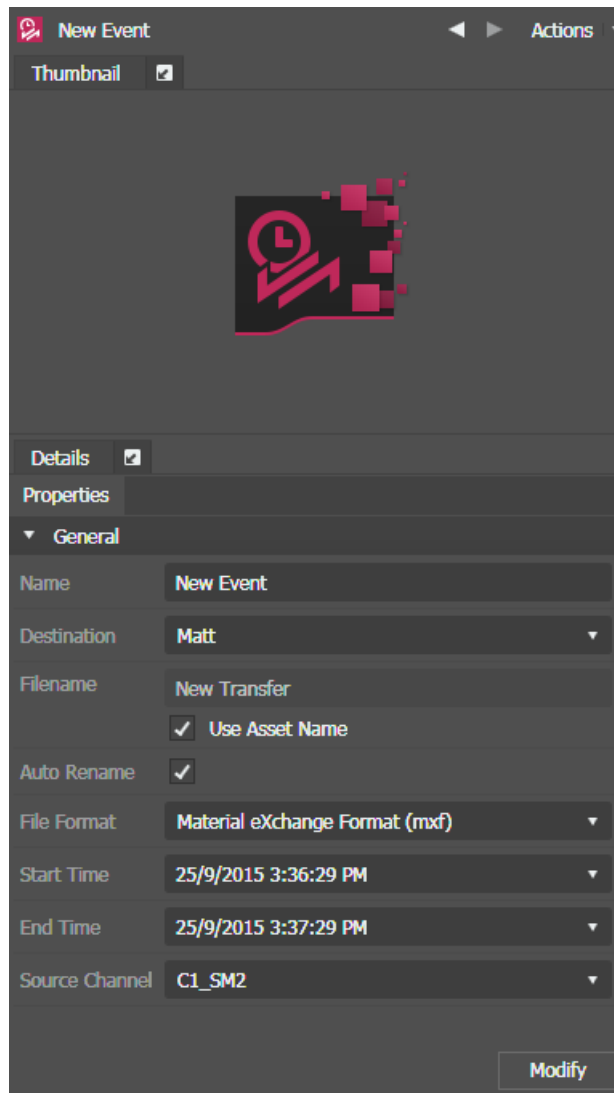
You can modify an event by changing the event name, transfer destination, file name, timing information, or source channel. However, an event can only be modified before the transfer starts.

- Select the event you want to modify on the Scheduled Transfer tool.

2. Do one of the following:

- Click the **Modify Event** button. 
- Right-click and select **Modify Event**. ( **M**)
- Double-click the event.
- Drag and drop the event into the Inspector.

The event opens in the Inspector panel.



Event properties display in the **Properties** tab of the Inspector.

3. Modify the event properties.
4. Click the **Modify** button.

The transfer event updates with those changes on the Scheduled Transfer tool.

Moving a transfer event

You can move a scheduled transfer event via drag and drop within the same channel or to a different channel. This is useful when the current channel is not available, or another event needs to be in a particular channel at the same time.

NOTE: *Move of past events, combination of past and future events, and overlapping of events are not supported.*

1. Select the event you want to move on the Scheduled Transfer tool.
2. Press the **Ctrl** button and drag the event to a future time or into another channel.

Once you drag the event, a tooltip appears to help you decide the start time of the event.

3. Drop the event to a new location and release the **Ctrl** button.

A dialog box opens for you to confirm the move of the event.

4. Click **Yes**.

The Scheduled Transfer tool updates the event change.

Retrying a transfer event

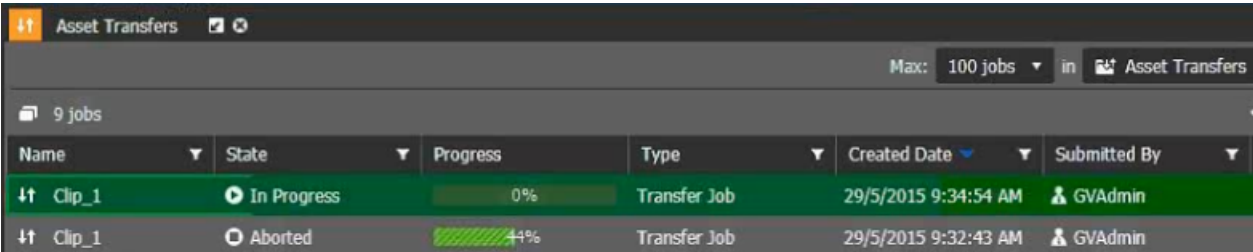
You can retry an event transfer after a failed, aborted, or completed event transfer. A still transferring event must be canceled before the event transfer could be retried.

NOTE: *The Retry Event option is not available if the transfer event is in 'Ready' or 'Transferring' state.*

1. Select the event you want to re-transfer on the Scheduled Transfer tool.
2. Right-click on the event and select **Retry Event**.

The event status changes to **Ready** and **Transferring**.

The progress of the event transfer can be viewed on the Jobs monitor.



Name	State	Progress	Type	Created Date	Submitted By
Clip_1	In Progress	0%	Transfer Job	29/5/2015 9:34:54 AM	GVAdmin
Clip_1	Aborted	44%	Transfer Job	29/5/2015 9:32:43 AM	GVAdmin

If you aborted the previous event transfer, you can see that transfer is abandoned. Then the retried event transfer appears on the Jobs monitor.


Exporting Scheduled Transfer events

1. Select an event or multiple events in the Scheduled Transfer user interface.

To select multiple events, hold the **Shift** key down and select all events between two selected events; or hold the **Ctrl** key down and select events randomly.

To deselect any event, hold the **Ctrl** key down and click on the event to be unselected.

2. Do one of the following:

- Click the **Export** button. 
- Right-click and select **Export Event**.


The Export Event dialog box displays.

3. Enter the file name for those events and select the destination folder.
4. Click **Save**.

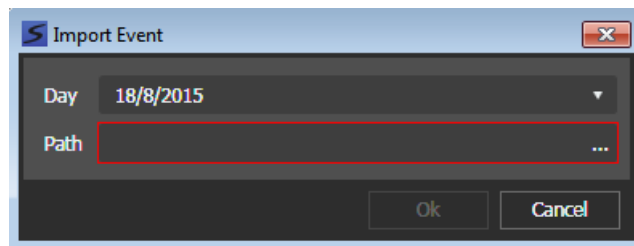
Events are exported and saved in the *.sts file format.

Importing events into Scheduled Transfer

1. Do one of the following:

- Click the **Import** button. 
- Right-click and select **Import Event**.

The Import Event dialog box displays.



2. Select the Day for events to be imported from the calendar display.
3. Browse to select the Path to *.sts file that you want to import and click **Open**.

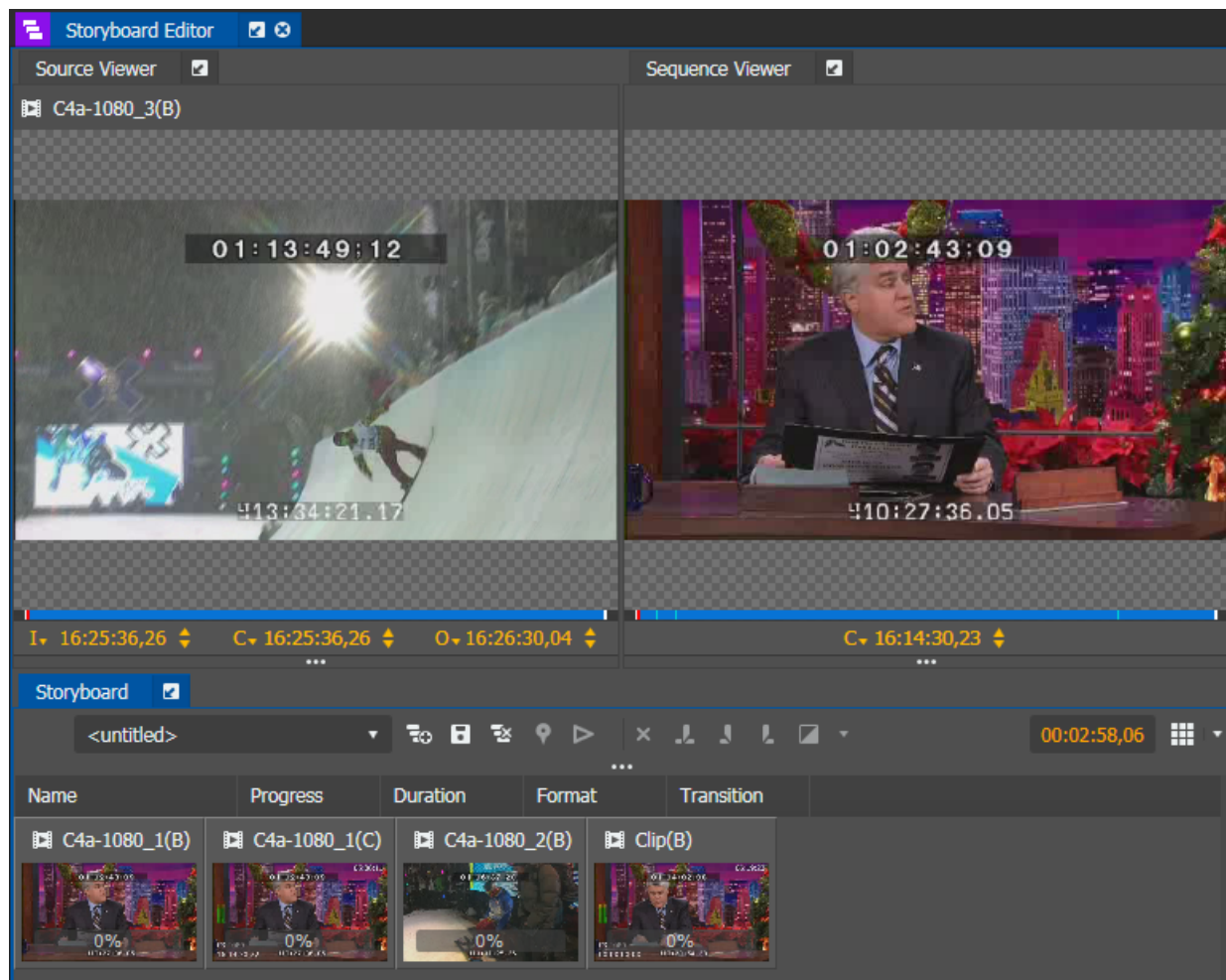
Events are imported and displayed on the Scheduled Transfer user interface.

Editing

The Storyboard Editor tool

Launch the Storyboard Editor tool to access the editing workspace.

The Storyboard Editor tool launches as a composite panel inclusive of Source Viewer, Sequence Viewer, and Storyboard.



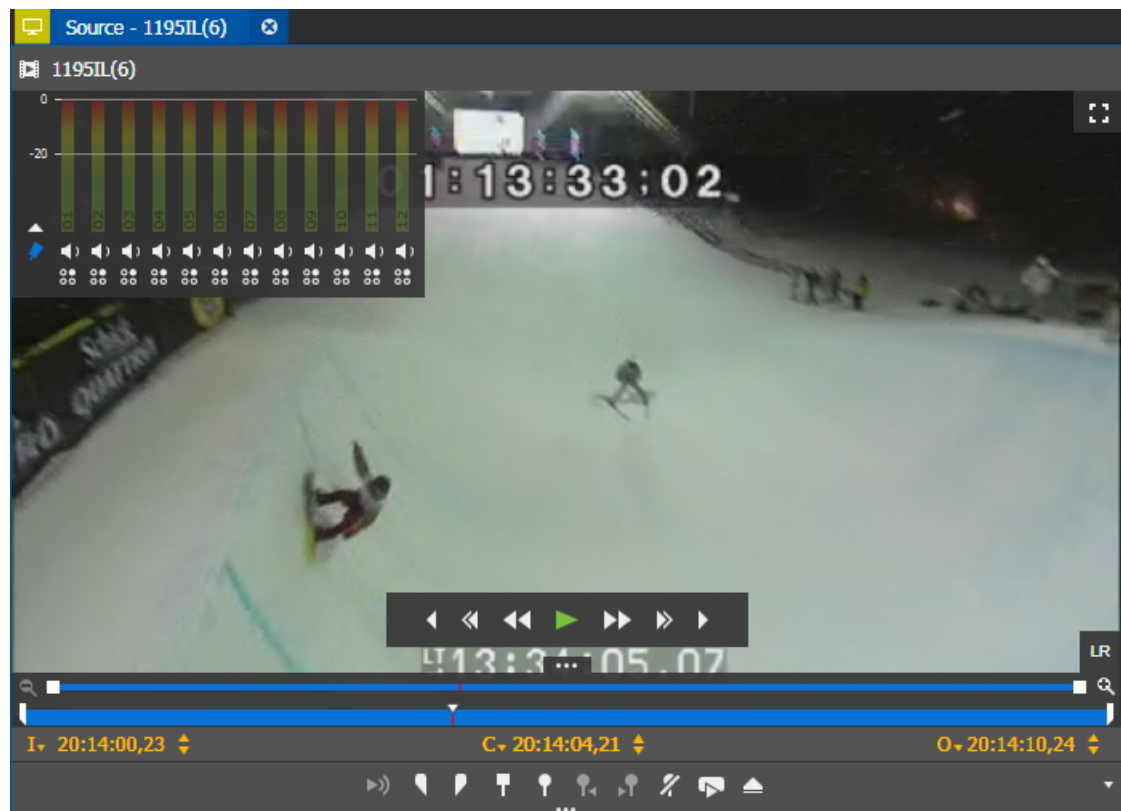
If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Opening a Storyboard

1. In an Asset List, right-click on a playlist and select **Open With | Storyboard Editor**.
The Storyboard Editor Panel opens.
2. In the Storyboard panel, use the toolbar buttons to modify events.

The Source Viewer

The Source Viewer allows you to preview assets, both assets already recorded and assets currently being recorded. The Source Viewer appears in the application as a standalone panel when you select it in the **Window | Panels** menu or from the Navigator. However, the Source Viewer appears in a composite panel when you launch Advanced Logging or Storyboard Editor.



The Source Viewer includes the following components :

- Overlay Controls — Transport controls navigate through the asset. Visible when you hover the mouse pointer over the asset. Movable with drag-and-drop. Not all controls are displayed when the panel is not fully expanded.
- Clip Viewer — Displays the asset.
- Audio Overlay — Displays the audio settings embedded with the asset.
- Show/Hide Controls — Shows and hides the controls.
- Scrub Bar — Scrubs through the asset.















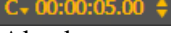
- **Controls** — Allows you to mark up the asset.
- **Add/Remove Buttons** — Allows you to choose which Control buttons to display.
- **Timecode Controls** — Allows you to select the mark in/out and other timecode types to display. Also lets you navigate through the clip to a specific timecode. If desired, the timecode controls can also be expanded and resized in the panel.

Related Topics






[Identifying and selecting the timecode type](#) on page 888


Viewer buttons


These buttons and controls located on the Source Viewer and the Inspector let you perform various functions:

-  **Show/Hide Control Tray:** Shows or hides the control tray.
-  **Live Streaming Video:** Enables/disables the display of the live video stream.
-  **Mark In:** Sets the Mark In point.
-  **Mark Out:** Sets the Mark Out point.
-  **Add Keyword:** Logs an item from mark in to mark out.
-  **Add Marker:** Logs an item for the current position.
-  **Go to Previous Marker:** Goes to previous keyword/marker.
-  **Go to Next Marker:** Goes to next keyword/marker.
-  **Hide Markers and Keywords:** Hides marker and keyword indicators on the scrub bar.
-  **Loop Playback:** Loops the current asset between mark in to mark out.
-  **Eject:** Ejects the current asset.
-  **Full Screen:** Displays the video player in full screen.
-  **Restore:** Restores player window to the normal size.
-  **Next Display:** Displays the video player on the next display monitor.
-  **Timecode:** Displays timecode and allows you navigate to a specific timecode. Also lets you select the timecode type for display. In the Viewer, displays the timecode for the mark-in point, mark-out point, and current timecode.


These transport control buttons let you move through the selected asset:


-  **-1 Frame:** Goes back one frame.
-  **-10 Frames:** Goes back ten frames.
-  **Rewind:** Rewinds the current asset. First press, rewinds -8x speed. Second press, increases to -16x speed.
-  **Play:** Plays the clip. Toggles with the Pause button.
-  **Fast Forward:** Fast Forwards the current asset. First press, fast forwards to 8x speed. Second press, increases to 16x speed.


 **+10 Frames:** Goes forward ten frames.


 **+1 Frame:** Goes forward one frame.

These control buttons on the audio overlay let you control the audio of the selected asset:

 **Mute:** Silences the selected audio channel.

 **Solo:** Isolates the selected audio channel.

 **Pin Audio:** Always display audio channels.

 **Collapse Audio:** Collapses display of audio channels.

Related Topics

[Arranging control tray buttons](#) on page 766

Using Source Viewer

Source Viewer allows you to preview assets that you can add to a sequence. You can also add keywords, markers, or mark-in and mark-out points to the asset. These are preserved when the asset is added to the sequence.

1. From the menu, select **Window | Panels | Source Viewer**.
2. In the Navigator panel, select the bin containing the asset to previewed.
The asset appears in the Asset List.
3. Drag the asset to the Source Viewer.
4. To navigate through the asset or to add or modify keywords, markers, or mark in and mark out points, use the appropriate transport controls or keyboard shortcuts.

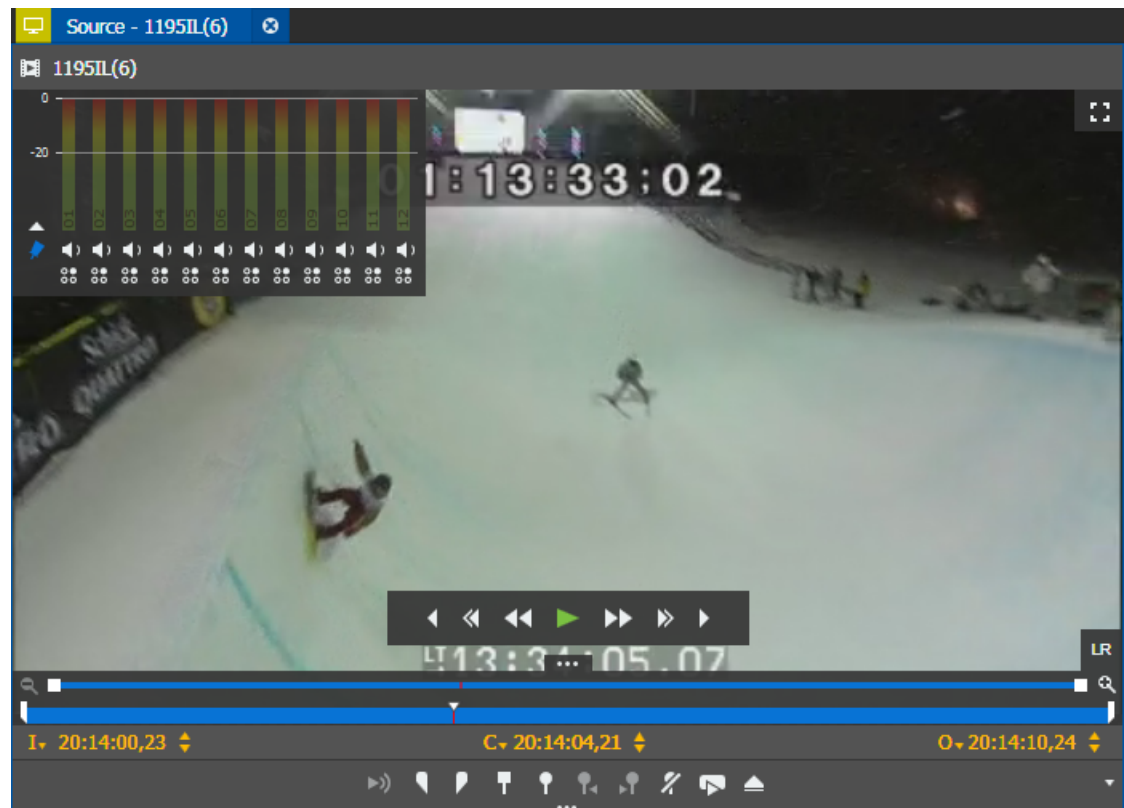
Using the Audio Overlay

The audio overlay is available on the Source Viewer, the Sequence Viewer, and the Inspector. The audio meter display depends on the number of audio channels associated with the asset. You can

load and play assets up to 64 audio channels if viewing a high-resolution clip, but only up to 32 audio channels if viewing a low-resolution clip.

1. On the Source Viewer, the Sequence Viewer, or the Inspector player, hover your mouse pointer on the top left of the asset.

The audio overlay of the asset displays. Each audio meter bar is labeled with the audio channel number for easy reference.

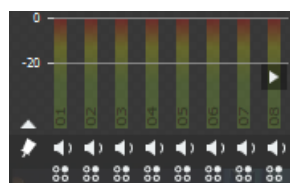


2. You can manage audio for the asset by clicking the appropriate button:

- To mute specific audio channels, click the **Mute** button.
- To isolate the selected audio channel while muting others, click the **Solo** button.

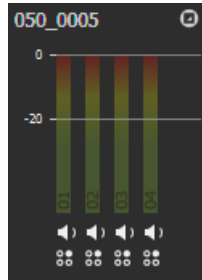
Meters on muted channels will continue to display audio levels.


3. Click the **Pin Audio** button to pin the audio overlay and fix it in place.
4. Click the **Collapse Audio** button to show or hide meter bar display of audio channels.
5. Click the arrow button to go to the next page if there are multiple pages in the audio overlay.



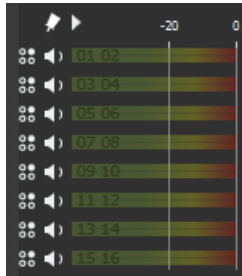
6. Drag the audio overlay off the viewer panel, if desired.

The audio overlay is un-dockable and re-sizable. The clip name displays on the audio overlay if it is off the viewer panel.



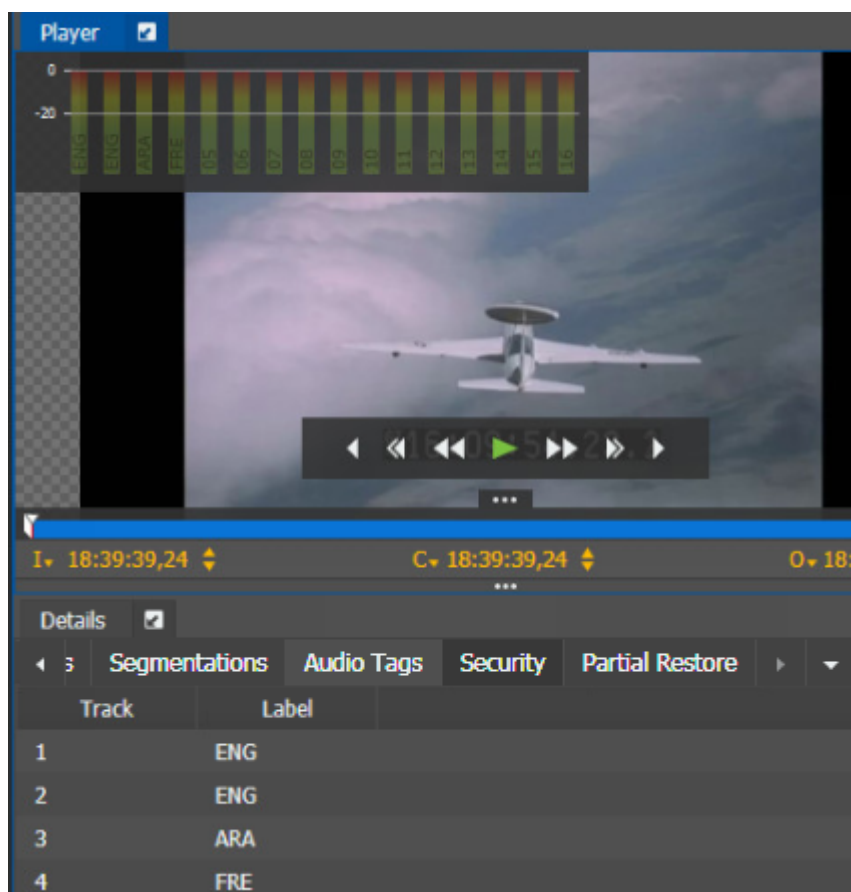
7. To return the audio overlay to its original position on the viewer, click the **Redock** button. 

The audio meter settings can be configured by selecting **Edit | User Preferences | Player**.



You can set the audio meter grouping to **Stereo** as shown above with 2 audio labels in combined channels. You can also set the audio meter orientation to be stacked horizontally or vertically in User Preferences settings. The default is set to be stacked horizontally.

GV STRATUS supports the display of audio tags if already configured in the K2 AppCenter as per asset basis. Audio tags can be viewed as labeled on the audio meter, and on the **Audio Tags** tab of the Inspector.



Related Topics

[Configuring Player User Preferences](#) on page 808

J, K, L keyboard shortcuts for transport control

The three keycaps J, K, and L on a standard keyboard can be used as transport control hotkeys in Source Viewer. These three keys can be used to play video and audio forward, in reverse, and vary speed as described below.

1. Load a video asset (clip) into an Inspector, Source Viewer, or Storyboard Editor tool.
2. Press the **J** key to start playing the clip in reverse.
3. Each time you press **J**, the reverse speed increases by 1X, 1.5X, 2X, 5X, 8X.
4. Hold down both the **J** and **K** keys.
This increases the speed of the video play in reverse by 1/10.
5. Press and hold down the **K** key while pressing **J**.
Now each press of **J** moves the video in reverse by one frame.
6. Press the **K** key to pause the video.
7. Press the **L** key to start playing the video forward.
8. Each time you press **L**, the forward speed increases by 1X, 1.5X, 2X, 5X, 8X.

9. Hold down both the **L** and **K** keys.
This increases the speed of the video forward play by 1/10.
10. Press and hold down the **K** key while pressing **L**
Now each press of **L** moves the video forward by one frame.

Using mouse wheel for transport control

A PC mouse wheel can be used as a transport control to advance the position of media so that jogging can be quick and efficient.

1. Select the asset in any window with transport controls using the mouse pointer.
2. Use the mouse wheel to move the media in both forward and reverse directions at the speed desired.

Using the ShuttlePro Controller with GV STRATUS viewers

GV STRATUS supports the use of ShuttlePro Controller with the Source Viewer and Inspector.

Any commands you send using the Shuttle Pro Controller apply to the currently active panel or window, which is considered to have focus. When a window has focus, you can perform tasks such

as navigating through a clip or trimming a clip. Always bear in mind that you need to give focus to a panel or window before you can apply the ShuttlePro Controller commands.

1. Plug the ShuttlePro controller into a USB connector on the GV STRATUS client.

A default layout has been provided with pre-configured keys. Keyboard shortcut keys are as below:

- Forward speeds:

Keyboard shortcuts	Forward Speed
Shift + F1	0.1
Shift + F2	0.3
Shift + F3	0.5
Shift + F4	1.0
Shift + F5	1.5
Shift + F6	2.0
Shift + F7	4.0
Shift + F8	8.0
Shift + F9	16.0

- Reverse speeds:





Keyboard shortcuts	Reverse Speed
Ctrl + F1	0.1
Ctrl + F2	0.3
Ctrl + F3	0.5
Ctrl + F4	1.0
Ctrl + F5	1.5
Ctrl + F6	2.0
Ctrl + F7	4.0
Ctrl + F8	8.0
Ctrl + F9	16.0

2. Use the ShuttlePro Controller to scroll through, add markers or keywords, and trim clip in the Source Viewer or Inspector.

Using mark-in and mark-out points





- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.

- Create Marker and Update Marker permissions must be set to **Allow** for you to create and update markers.

1. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  ( I)
2. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  ( O)

Trim Asset is enabled when the asset has a mark-in or mark-out point. It is disabled if the asset does not have a mark-in or mark-out point.




NOTE: *If a clip is a part of Dyno record train sequence, Mark In and Mark Out points should not be set beyond the limit of the guard band, as configured for the record train sequence.*

3. To clear a mark-in or mark-out point, click the drop-down arrow by the respective button and select **Clear Mark In** ( Shift + I) or **Clear Mark Out**. ( Shift + O)
4. To navigate to a mark-in or mark-out point, click the drop-down arrow by the respective button and select **Goto Mark In** ( Ctrl + I) or **Goto Mark Out**. ( Ctrl + O)

Adding markers

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.
- Create Marker and Update Marker permissions must be set to **Allow** for you to create and update markers.

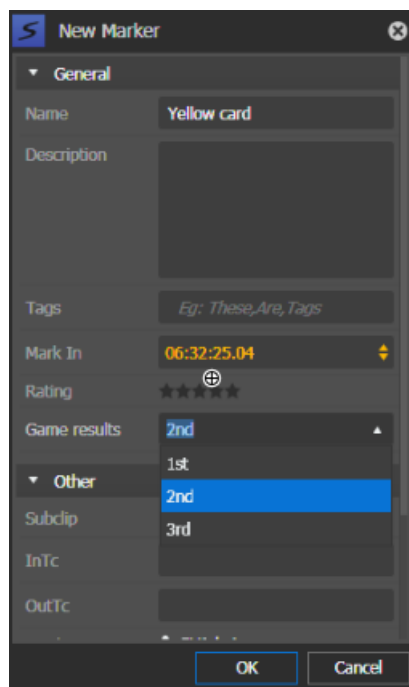
You can add markers to assets that are loaded in GV STRATUS Viewers. In the Sequence Viewer tool and the Channel Panel tool you can add markers but not keywords.

1. Load an asset into the Viewer or Channel Panel.
If a Channel Panel, record a clip or load an already recorded clip.
2. If the logging controls are not shown, do the following:
 - If a Viewer, individual Channel Panel, or Channel Panel gang, click the **Show/Hide Control Tray** button  to show the controls, then the drop-down arrow at the right of the control tray and **Add/Remove** buttons if necessary.
 - If a channel in a Channel Panel gang, double-click the channel to show the controls.
3. Click the **Add Marker** button.  ()
The New Marker dialog box opens.

4. Enter the name of the marker.

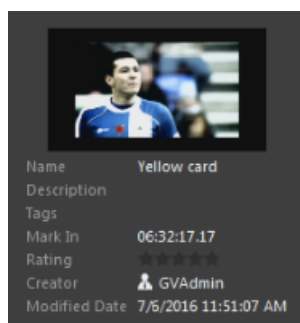
You can also add the description, tags, rating, and angle if needed.

If custom metadata had been specified for markers and keywords in the GV STRATUS Control Panel, you can select a custom value for the marker.



5. Click **OK**.

The marker is added to the asset. A symbol indicates its location. If you select a symbol the thumbnail associated with that point is loaded into the Viewer, and the slider is moved to that position.



If you hover the mouse pointer over a symbol, its thumbnail and properties appear.

Related Topics








[Adding keywords](#) on page 942

[Adding markers to a playlist](#) on page 948

Adding keywords

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.
- Create Marker and Update Marker permissions must be set to **Allow** for you to create and update keywords.

You can add keywords to assets that are loaded in GV STRATUS Viewers. In the Sequence Viewer tool and in the Channel Panel tool you cannot add keywords, but you can add markers.

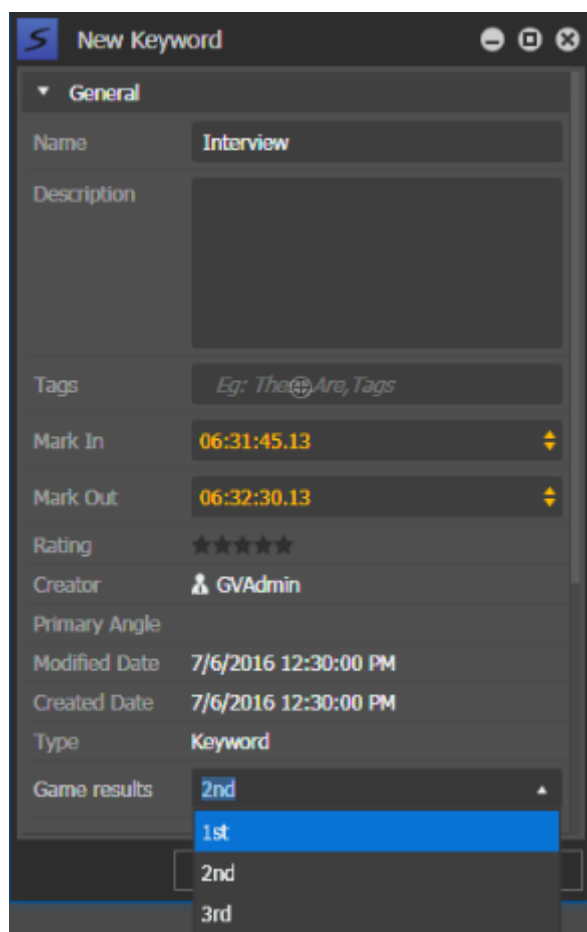
1. Load the selected asset into the Viewer.
2. If the logging controls are not shown, click the **Show/Hide Control Tray** button  to show the controls, then the drop-down arrow at the right of the control tray and **Add/Remove** buttons if necessary.
3. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  ( I)
4. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  ( O)
5. Click the **Add Keyword** button.  ()

The New Keyword dialog box opens.

6. Enter the name of the keyword.

You can also add the description, tags, rating, and angle if needed.

If custom metadata had been specified for markers and keywords in the GV STRATUS Control Panel, you can select a custom value for the keyword.



New Keyword

General

Name: Interview

Description:

Tags: Eg: The @ Are, Tags

Mark In: 06:31:45.13

Mark Out: 06:32:30.13

Rating: ★★★★★

Creator: GVAdmin

Primary Angle:

Modified Date: 7/6/2016 12:30:00 PM

Created Date: 7/6/2016 12:30:00 PM

Type: Keyword

Game results: 2nd

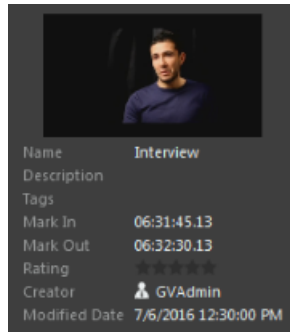
1st

2nd

3rd

7. Click **OK**.

The keyword is added to the asset. A symbol indicates its location. If you select a symbol the thumbnail associated with that point is loaded into the Viewer, and the slider is moved to that position.



If you hover the mouse pointer over a symbol, its thumbnail and properties appear.

Related Topics

[Adding markers](#) on page 940

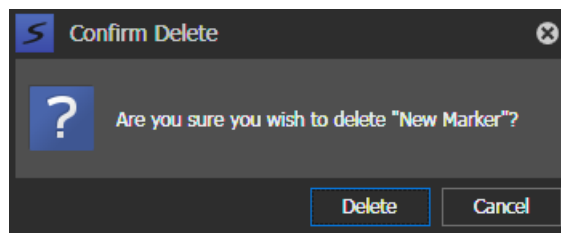
[Adding markers to a playlist](#) on page 948

Navigating to keywords or markers in an asset

1. Load the asset in the Viewer or Channel Panel.
Keywords or markers are indicated by symbols along the scrub bar.
2. Navigate through the asset using the appropriate buttons:
 - To go forward, use the **Go to Next Marker** button. (H)
 - To go backward, use the **Go to Previous Marker** button. (G)

Deleting a marker

- Delete Marker permission must be set to **Allow** for you to delete markers.
1. Select a marker or multiple markers that you want to delete.
To select multiple markers on the **Markers** tab of the Inspector, hold the **Shift** key down and select all markers between two selected markers; or hold the **Ctrl** key down and select markers randomly.
 2. Right-click and select **Delete**. **Delete**
The Confirm Delete dialog opens.





3. Click **Delete**.

Selected marker or markers are deleted from the **Markers** tab.

Create a subclip

Imported MXF clips must be conformed before you can create subclips.

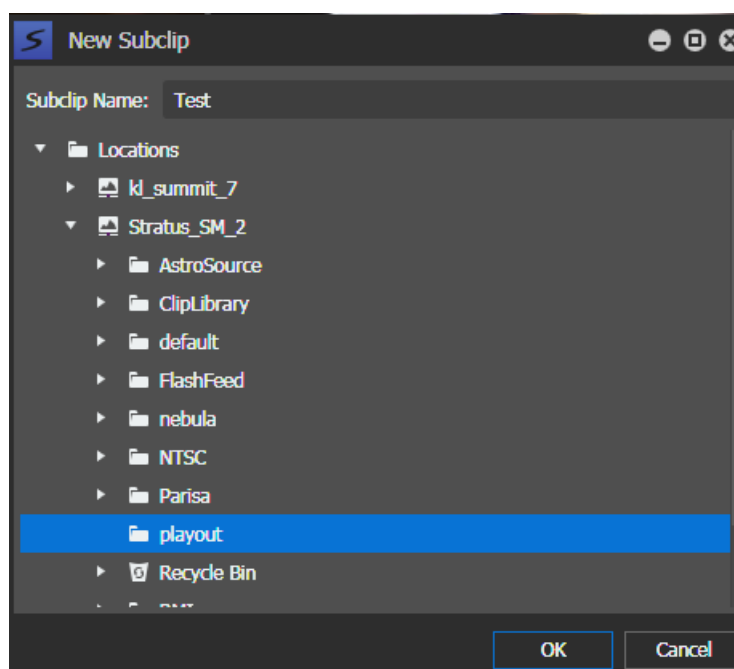
1. Load an asset into the Viewer.
2. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  (⏮)
3. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  (⏭)

Trim Asset is enabled when the asset has a mark-in or mark-out point. It is disabled if the asset does not have a mark-in or mark-out point.

NOTE: *If a clip is a part of Dyno record train sequence, Mark In and Mark Out points should not be set beyond the limit of the guard band, as configured for the record train sequence.*

4. Right-click on the scrub bar and select **Create Subclip**. (⏮ F4)

The **New Subclip** dialog box opens.



5. Enter a name for the subclip.
6. Navigate to the location to save the subclip.
7. Click **OK**.

The subclip is created in the specified location. The following is inherited from the parent clip:

- Rating
- Tags
- Description
- Angle
- Comments
- Markers and keywords that are between mark in and mark out

- Custom metadata

The following is not inherited:

- Approval Status
- Protection Status

Related Topics

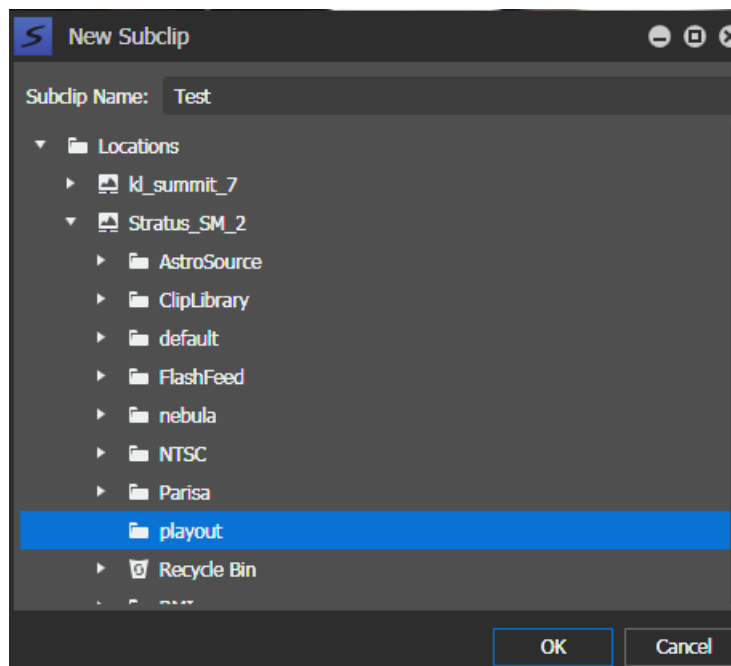
[About GV STRATUS markers, Dyno markers, and the K2 database](#) on page 351

[Conforming a complex asset to a simple clip](#) on page 914

Create subclips from keywords

1. Load an asset with several keywords into the Inspector.
2. Click on **Markers** tab to view the list of keywords and markers.
3. Select a keyword or multiple keywords from the list.
4. Right-click on the keyword(s) and select **Create Subclip**.

The **New Subclip** dialog box opens.







5. Enter a name for the subclip.
6. Navigate and select a location for the subclip.
7. Click **OK**.

The subclip is created at the selected destination. If multiple subclips are created from multiple keywords, a suffix will be appended to the next and subsequent subclips.

Trimming a clip in Inspector

When you trim an asset, you change the length of the viewable asset, restricting it to the material between the Trim In and Trim Out points. The material outside the trim marks is not deleted. It

remains on disk but is not viewable. To use the Trim Asset operation, you must be logged on with a user account to which the Trim Rights role is assigned. If the role is not assigned, the Trim Asset operation is not available.

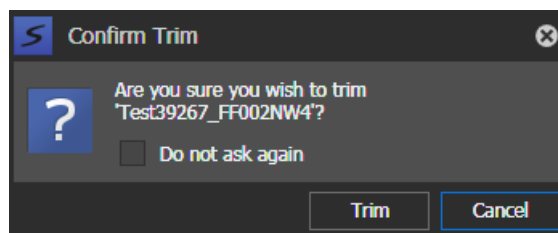
1. Load the asset into the Inspector.
2. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  ( I)
3. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  ( O)

Trim Asset is enabled when the asset has a mark-in or mark-out point. It is disabled if the asset does not have a mark-in or mark-out point.

NOTE: *If a clip is a part of Dyno record train sequence, Mark In and Mark Out points should not be set beyond the limit of the guard band, as configured for the record train sequence.*

4. Click on the **Actions** drop-down arrow, and select **Trim Asset**.

The **Confirm Trim** dialog box appears.

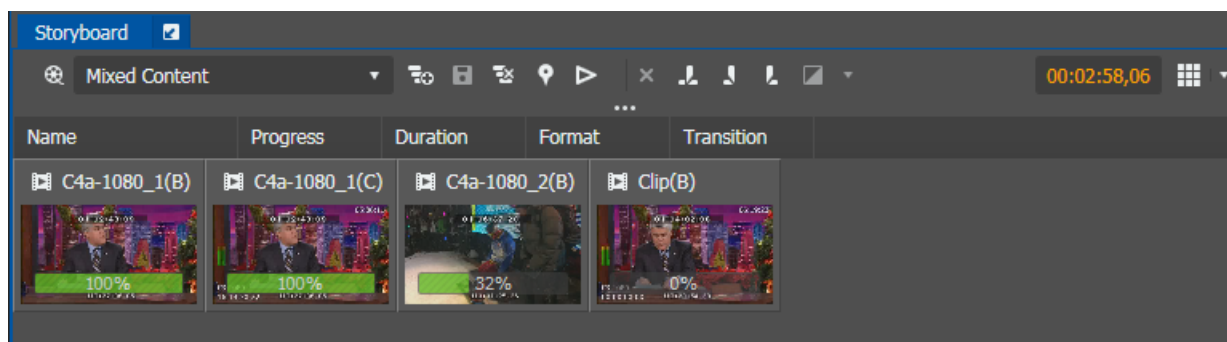


5. Select the **Do not ask again** checkbox to prevent recurring display of the **Confirm Trim** dialog box.
6. Click **Trim** to confirm the trimming of the asset.

The Storyboard

The Storyboard Editor tool allows you to assemble and edit a Sequence. You can launch the Storyboard Editor as a composite panel when you select it in the **Windows | Panels** menu.

The Storyboard appears in the application as a panel in the Storyboard Editor tool. You can drag assets into the panel to create or add to a Sequence. Assets in the panel are called *events*.



The panel has the following features:

- **Toolbar** — Edits the series of events.

Once you have assembled the Sequence, you can preview it in the Sequence Viewer. In the Storyboard, the progress bar next to an event indicates whether that event is currently being played in the Sequence Viewer, and if so where the current play location is.













If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Related Topics

[About playlists and sequences](#) on page 893

Storyboard buttons

These buttons and controls located on the Storyboard let you perform various functions:

-  **New Sequence:** Creates a new sequence.
-  **Save Sequence:** Saves selected sequence.
-  **Close Sequence:** Closes selected sequence.
-  **Locate Sequence:** Navigate to this sequence in the Asset List viewer.
-  **Launch in EDIUS:** Launches the sequence in the EDIUS XS application.
-  **Delete:** Deletes the selected item or items. Disabled if delete rights denied in GV STRATUS Control Panel.
-  **Split:** Splits the item at the current position.
-  **Trim In:** Trims the start of the event at the current position.
-  **Trim Out:** Trims the end of the event at the current position.
-  **Add Transition:** Adds a transition to the event.
-  **Show/Hide Transition Panel:** Edit current transition settings
-  **View Mode:** Controls the display and size of the items in a list or panel.

Related Topics

[Adding and removing transitions](#) on page 954

Adding markers to a playlist

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.

- Create Marker and Update Marker permissions must be set to **Allow** for you to create and update markers.

You can add markers to a playlist in the Storyboard panel. These markers are added in addition to any markers inherited from sequences in the playlist.

1. In an Asset List, right-click on a playlist and select **Open With | Storyboard Editor**.
The Storyboard Editor Panel opens.
2. In the Sequence Viewer, use the transport controls to navigate through sequences in the playlist.
3. In the Storyboard panel, right-click and select **Add Marker**.

The New Marker dialog opens.

4. Enter the name of the marker.

You can also add the description, tags, rating, and angle if needed.

5. Click **OK**.

The marker is added to the playlist. If the playlist is conformed to a flattened file and archived, the marker is preserved and can be found with advanced search.

Related Topics

[Adding keywords](#) on page 942

[Adding markers](#) on page 940

The Sequence Viewer

The Sequence Viewer allows you to play assets (also called events) that have been assembled into a sequence in the Storyboard. The Sequence Viewer appears in the application as a panel in the Storyboard Editor tool.



The Sequence Viewer includes the following components:

- Title bar — Displays the name of the sequence.
- Viewer — Displays the event currently playing in the sequence.
- Overlay Transport controls — Navigates through the sequence. Visible when you hover the mouse pointer over the sequence.
- Audio meter overlay — Displays audio settings. Visible when you hover the mouse pointer over the sequence.
- Scrub bar — Lets you scrub through the sequence.
- Show/Hide Controls — Shows and hides the controls.
- Controls — Allows you to mark up the asset.
- Add/Remove Buttons — Allows you to choose which Control buttons to display.
- Timecode Controls — Allows you to select the mark in/out and other timecode types to display. Also lets you navigate through the clip to a specific timecode. If desired, the timecode controls can also be resized in the panel.

NOTE: *Not all controls are displayed when the panel is not fully expanded.*










You can navigate through the newly created sequence by using one of the transport controls. Each event in the sequence is indicated by a symbol in the scrub bar.

Related Topics








[Identifying and selecting the timecode type](#) on page 888

Sequence Viewer buttons





These buttons and controls located on the Sequence Viewer let you perform various functions:

-  **Show/Hide Control Tray:** Shows or hides the control tray.
-  **Add Marker:** Logs an item for the current position.
-  **Go to Previous Marker:** Goes to previous keyword/marker.
-  **Go to Next Marker:** Goes to next keyword/marker.
-  **Full Screen:** Displays the video player in full screen.
-  **Restore:** Restores player window to the normal size.
-  **Next Display:** Displays the video player on the next display monitor.
-  **Hide Markers and Keywords:** Hides marker and keyword indicators on the scrub bar.
-  **Timecode:** Displays timecode and allows you navigate to a specific timecode. Also lets you select the timecode type for display.







These transport control buttons let you move through the selected asset:

-  **-1 Frame:** Goes back one frame.
-  **-10 Frames:** Goes back ten frames.
-  **Rewind:** Rewinds the current asset. First press, rewinds -8x speed. Second press, increases to -16x speed.
-  **Play:** Plays the clip. Toggles with the Pause button.
-  **Fast Forward:** Fast Forwards the current asset. First press, fast forwards to 8x speed. Second press, increases to 16x speed.
-  **+10 Frames:** Goes forward ten frames.
-  **+1 Frame:** Goes forward one frame.

These control buttons on the audio overlay let you control the audio of the selected asset:

-  **Mute:** Silences the selected audio channel.
-  **Solo:** Isolates the selected audio channel.
-  **Pin Audio:** Always display audio channels.
-  **Collapse Audio:** Collapses display of audio channels.

Creating a sequence


1. Open the Storyboard Editor tool and then do one of the following:
 - On the Storyboard toolbar, click the **New Sequence** button.  A New Sequence dialog box opens. Enter the name of your sequence, select a K2 bin, and then click **OK**.
 - In the Navigator panel, right-click a K2 bin and select **New | Sequence**. A New Sequence dialog box opens. Enter the name of your sequence and then click **OK**.
 - Right-click in the empty space of a K2 bin in Asset List and select **New | Sequence**. A New Sequence dialog box opens. Enter the name of your sequence and then click **OK**.
2. Select an asset in a K2 bin in Asset List and drag it to the Source Viewer panel.
The asset name displays in the title bar.
3. Choose one of the following actions:
 - To preview the asset, click the **Play** button  or use the appropriate transport controls.
 - To create a mark-in point, click the **Mark In** button. 
 - To create a mark-out point, click the **Mark Out** button. 
4. Drag the asset to the Storyboard. ( **C**)
The asset is now in the timeline of the Storyboard and referred to as an *event*.
5. Repeat above steps to add additional events.
6. In the panel, use the toolbar buttons to modify events.
7. Click the **Save** button  to save the sequence. If you have not yet named the sequence, a Save As dialog box opens. Name the sequence and select the K2 bin in which to save the sequence.

To preview the sequence, use the transport controls in the Sequence Viewer.

Editing an event

1. Double-click an event on the timeline of the Storyboard.
The event opens in the Source Viewer.
2. To edit, mark in and mark out the event.
The event duration automatically updates in the Storyboard.
There is no Undo feature for these operations.

Splitting an event

1. Navigate to the desired location in the event.
 2. Select the **Split** button. 
- The event is divided into two events with identical names.
There is no Undo feature for these operations.

Configuring Storyboard Editor User Preferences

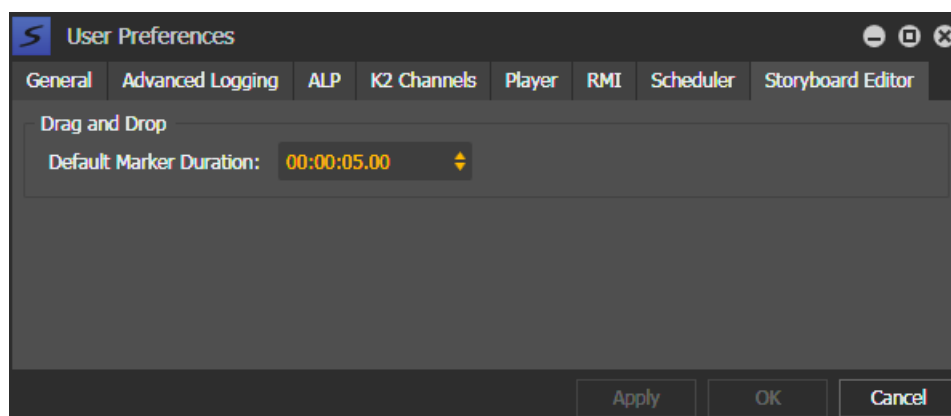
You can configure Storyboard Editor settings within the user settings preferences window.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. Select the **Storyboard Editor** tab.



3. Set the **Default Marker Duration** when markers are dragged and dropped as sequences into the Storyboard Editor.
 4. To apply a change and continue editing user preferences settings, click **Apply**.
 5. To accept any changes and close the dialog box, click **OK**.
- The dialog box closes.

Using keywords and markers to add an event to a sequence

Once you have keywords and markers to an asset, you can use those keywords and markers to add events to a sequence in the Storyboard Editor.

On the Source Viewer, Advanced Logging tool, or Markers tab in the Inspector, drag and drop the symbol associated with the keyword or marker into the Storyboard.

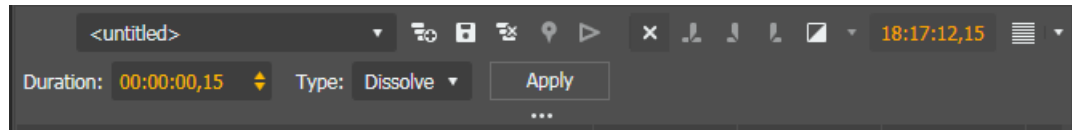
If you dragged a keyword to the Storyboard, the part of the asset between the mark-in and mark-out points is added to the sequence.

If you dragged a marker to the Storyboard, the marked part of the asset is added to the sequence. The marker duration is set according to the **Default Marker Duration** as configured in the User Preferences setting.

Adding and removing transitions


1. Click the the **Show/Hide Transition Panel** button. 


The transition settings open.



2. Configure transition settings as follows:

- a) Set the **Duration** of the transition.
- b) Select the **Type** of the transition.
- c) Click **Apply**.

These settings define transitions subsequently applied with the the **Add Transition** button. 

3. Select the event or events to which you are adding a transition.
4. Click the the **Add Transition** button. 


The transition is applied between each selected event and the next event.

Transitions are indicated by icons in Thumbnails view and by text in Details and Tiles view.

5. To modify, do the following:
 - a) Select an event or events, then right-click and select **Modify Transition**.
The transition settings open, if they are not already open.
 - b) Change settings and then click **Apply**.
The changed setting is applied to the selected events.
6. To remove a transition, right-click an event and select **Delete Transition**.

Rearranging or deleting events in a sequence

Select the event in the panel and choose one of the following actions:

- To delete the selected event, click the **Delete** button. 
- To move the selected event, drag the event to a new location in the panel.

There is no Undo feature for these operations.

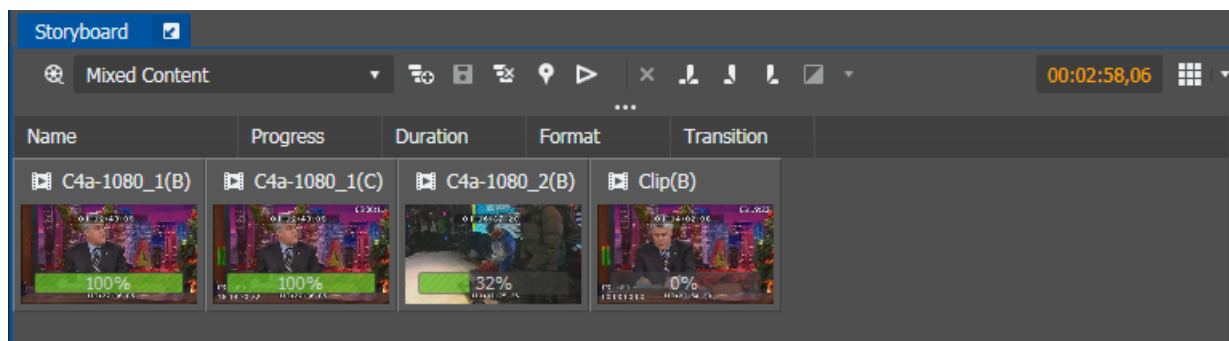
Playing a sequence

1. Drag the sequence from the Navigator to the Storyboard.

2. In the Sequence Viewer, use the transport controls to navigate through the sequence. Each event is indicated by a symbol in the scrub bar.






As the event plays in the Sequence Viewer, the event's progress indicator in the Storyboard displays the current location.



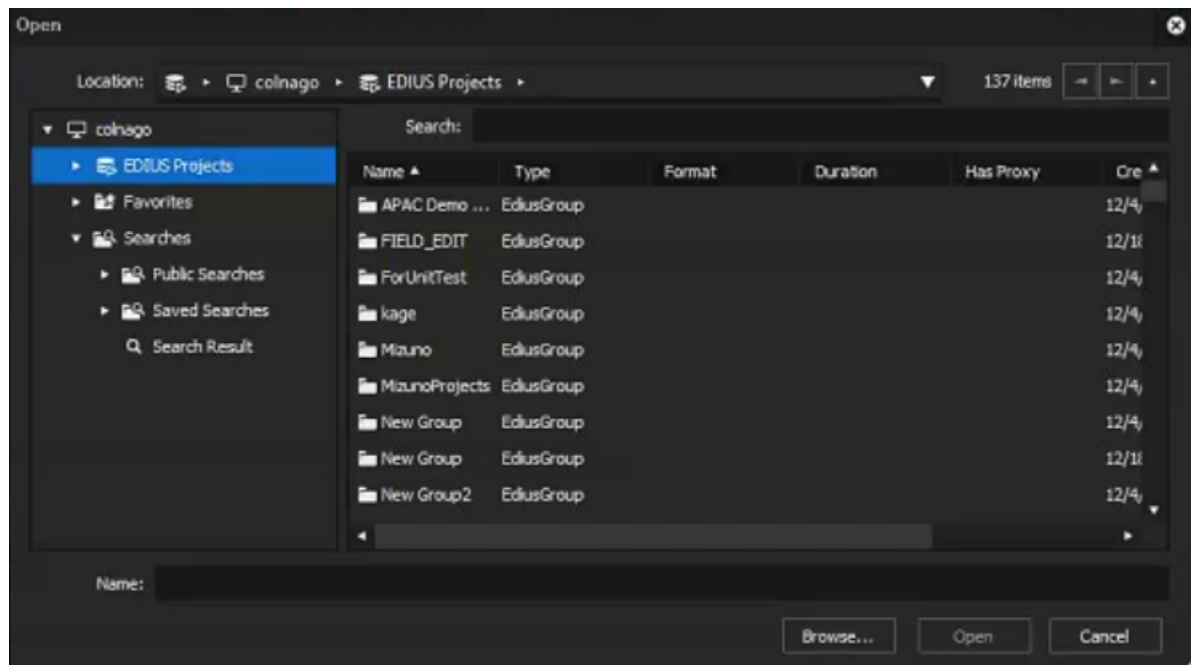
Launching a sequence in the EDIUS application

After creating a sequence in the Storyboard Editor, you can launch the sequence in the EDIUS application for further editing.

The **Launch in EDIUS** button  is only available if you are assigned with the EDIUS XS role in the GV STRATUS Control Panel.

1. Create a sequence in the Storyboard Editor as you normally would.
2. Click the **Save Sequence** button. 
3. Click the **Launch in EDIUS** button. 
4. If you are not already logged on to GV STRATUS in the EDIUS application, a GV STRATUS logon dialog box opens. Enter your GV STRATUS credentials to log on.

The Startup dialog appears.

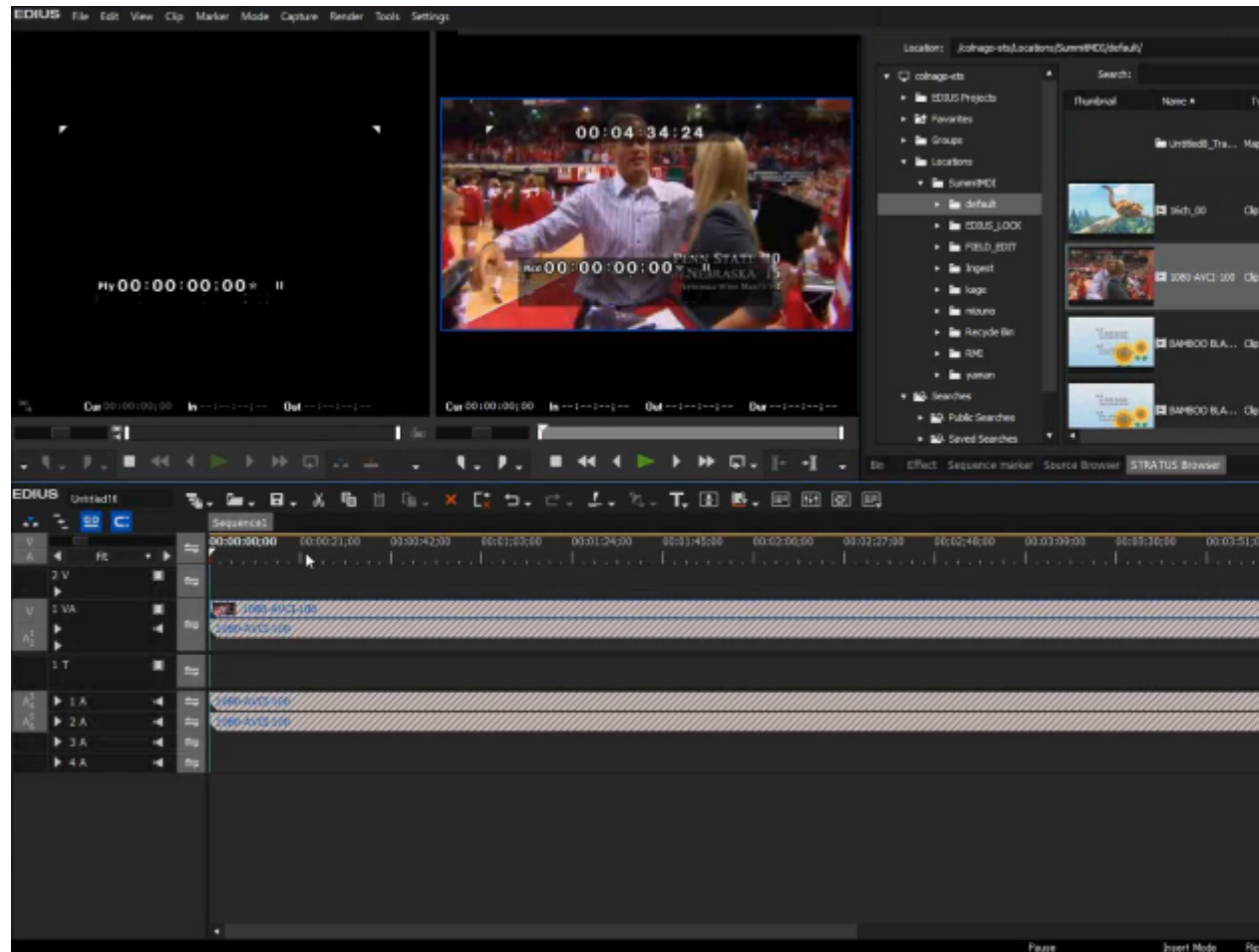


5. Select the project location.

You can also set to other locations as long as the new location is under the default location path in EDIUS settings on the GV STRATUS Control Panel.

- Enter the project name and click **Open**.

The EDIUS application opens with the sequence loaded into the player and timeline.



Related Topics

[Adding GV STRATUS assets to EDIUS timeline](#) on page 975

[Sending EDIUS sequences to the K2 system](#) on page 983

Viewing the properties of an item

You can view the properties of an item in several locations in the application.

- To view basic asset properties as a tooltip, hover the mouse pointer over an item in the Asset List panel.
- To view more asset properties, open the asset in the Inspector panel and view the General section.
- To view properties of a playlist or sequence event, right-click on the event in the Editor Panel and select **Properties**, or drag the event to the Inspector panel.

The event's properties display in the Inspector panel.

- To modify the display of properties in Tiles view, right-click on the Asset List panel, select **Tile Properties**, and reorder the top three items as desired.
- To view the properties associated with a keyword or marker, hover the mouse pointer over the symbol associated with that keyword or marker.
The thumbnail and properties associated with the keyword or marker appear as an overlay tooltip.

Using EDIUS for GV STRATUS application

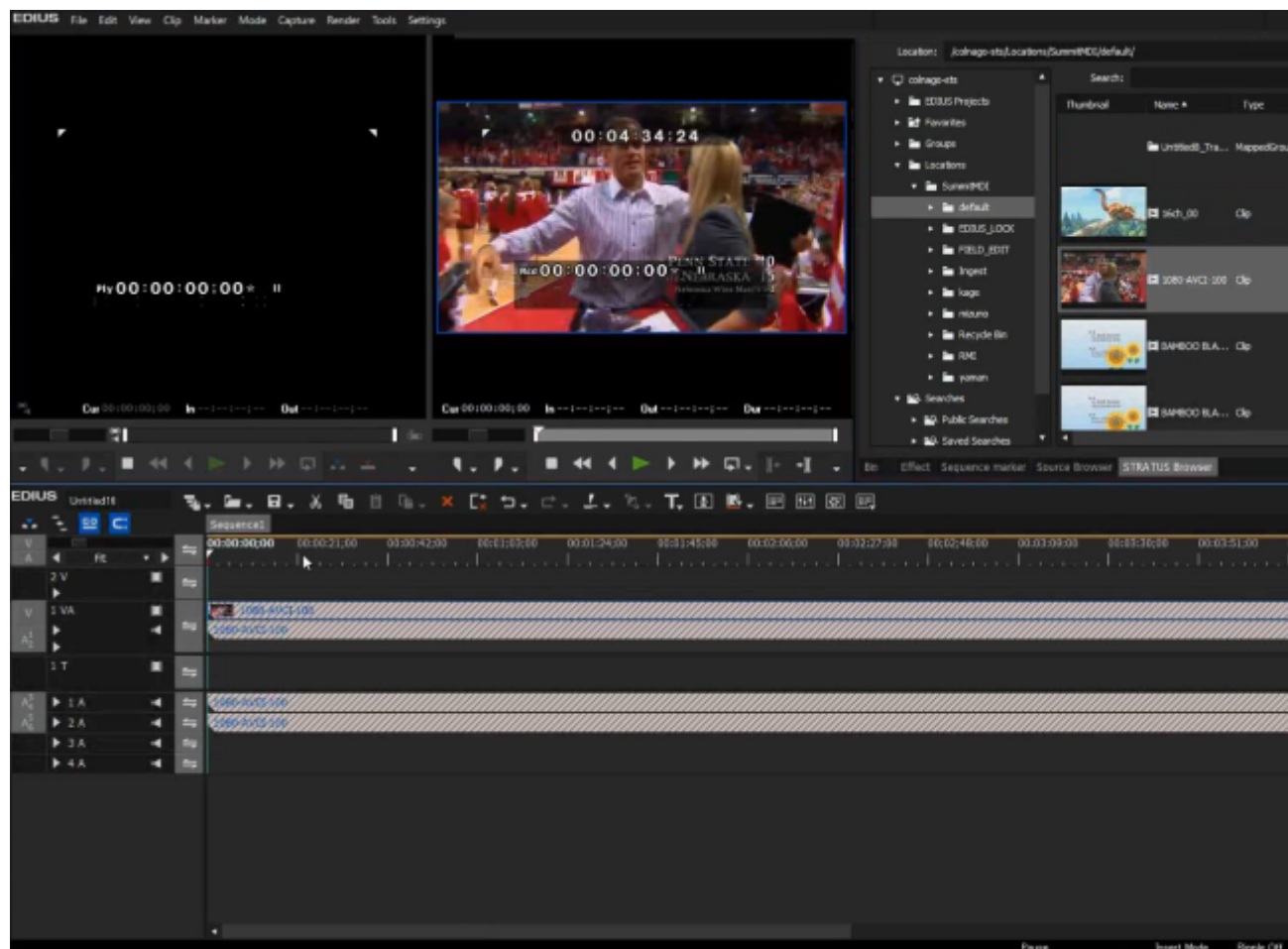
You can launch the GV STRATUS application as an ActiveX panel or STRATUS Browser within the EDIUS application. This allows you to use all GV STRATUS tools within EDIUS and consolidate your entire operation into one workspace.

Depending on licensing and system configuration, the EDIUS for GV STRATUS application launches as a high resolution editor (EDIUS Workgroup) or a low resolution proxy editor (EDIUS XS). The EDIUS for GV STRATUS application allows you to work with GV STRATUS assets. You can drag assets from the GV STRATUS Asset List and drop them into EDIUS player and timeline.

If GV STRATUS security is enforced, manage assets considering the following:

- If accessing assets with the GV STRATUS ActiveX panel or STRATUS Browser, GV STRATUS security applies. Your credentials must give you adequate permissions on bins and assets that are part of your workflow.
- If accessing high-resolutions assets using the EDIUS K2 Browser, GV STRATUS security does not apply. Be careful that you do not interfere with a workflow that is dependent on GV STRATUS security.

You can also undock the GV STRATUS panel from the EDIUS application window to customize the application workspace.



About high resolution and low resolution EDIUS for GV STRATUS

The EDIUS for GV STRATUS application can launch and operate as follows:

- A high resolution editor, identified as EDIUS Workgroup, which can operate in STRATUS mode or in standalone mode. In STRATUS mode, the EDIUS for GV STRATUS application can access GV STRATUS high resolution assets. In standalone mode, the EDIUS for GV STRATUS application cannot access GV STRATUS high resolution assets.
- A low resolution proxy editor, identified as EDIUS XS, which operates in a single mode that must access GV STRATUS proxy assets.

Requirements for the different launch modes and operations are as follows:

- High resolution EDIUS Workgroup:
 - Launch:
 - The GV STRATUS application must be installed.
 - All the following EDIUS licenses must be present on the local GV STRATUS/EDIUS client PC.
 - EDIUS Workgroup license
 - EDIUS K2 Option license
 - EDIUS STRATUS Option license
 - Operation:
 - The GV STRATUS/EDIUS client PC must be configured as a high resolution client in GV STRATUS Control Panel.
 - For STRATUS mode, the GV STRATUS/EDIUS client PC must have access to high resolution K2 storage, either with an iSCSI connection or a CIFS connection.
- Low resolution EDIUS XS:
 - Launch:
 - The GV STRATUS application must be installed.
 - The EDIUS Workgroup license must not be present on the local GV STRATUS/EDIUS client PC. This is an EDIUS license, not a Sabretooth license.
 - Operation:
 - The user account logged on to GV STRATUS must have the EDIUS XS role assigned in GV STRATUS Control Panel.
 - The GV STRATUS/EDIUS client PC must have network access to low resolution proxy assets.

Create EDIUS project and shared folder

You must create a location for your EDIUS projects.

You must have a shared folder that both the GV STRATUS/EDIUS client PC and the GV STRATUS Render Engine server can access. Files like audio clips and still images can be located in this shared folder.

1. On the K2 media file system (the *v:* \ drive), create a new project folder.
2. Name the folder with a meaningful name.

For example create the following folder:

V: \EDIUS_Projects

3. To create a shared folder, name the folder with a meaningful name.

For example create the following folder:

```
V:\EDIUS_Projects\Shared items
```

4. Make sure the folder is shared with permission granted so that your GV STRATUS/EDIUS client PCs and GV STRATUS Render Engine server can access the folder.

On the GV STRATUS Render Engine server, the internal system account, which by default is GVAdmin, accesses the folder.

If you created several bins in your EDIUS project, the same bin structure will appear in the **Navigator** panel of GV STRATUS after you saved the project.

Related Topics

[Access K2 storage for EDIUS using standard convention](#) on page 232

[Access K2 storage for EDIUS using standard convention](#) on page 232

Applying User Settings to multiple EDIUS users

In some environments, there may be a need to create a pre-defined EDIUS user interface layout and settings, so that all users have the exact same working environment. This information is stored in EDIUS user settings, and it is possible to apply the same settings across all users, by understanding how Windows roaming user profiles work. This allows EDIUS settings to remain unchanged across all machines for all users in a shared editing environment.

To achieve this, once EDIUS has been set up as desired, user settings will be automatically saved on this path on the local machine: `C:\Users\UserName\AppData\Roaming\Grass Valley\EDIUS\8.00\User\User000\Setting`.

The file **Setting.esp** stores this information. When a new user logs in, it is possible to apply the same settings by simply copying the **Setting.esp** file over to their relevant user folder. Whenever this user closes the EDIUS application, the user settings are saved, both on the local machine and, if it exists, on the domain controller, as a roaming profile.

Secondly, some editing environments may prefer to have a single log-in for all editing users. In such case, wherever there is a Windows Domain Controller, the User Settings from the last log-out of such roaming profile will be saved to the domain controller. Hence, if a change is made to the user settings in EDIUS, it is important to update that user profile on all the machines before any of them shut down. This can be achieved by copying the **Setting.esp** file to the Setting folder indicated above.

The behavior of Microsoft Windows roaming profiles needs to be considered when setting up this type of infrastructure. Please refer to Windows-specific sources of information for more details.

Logging on to the EDIUS for GV STRATUS application

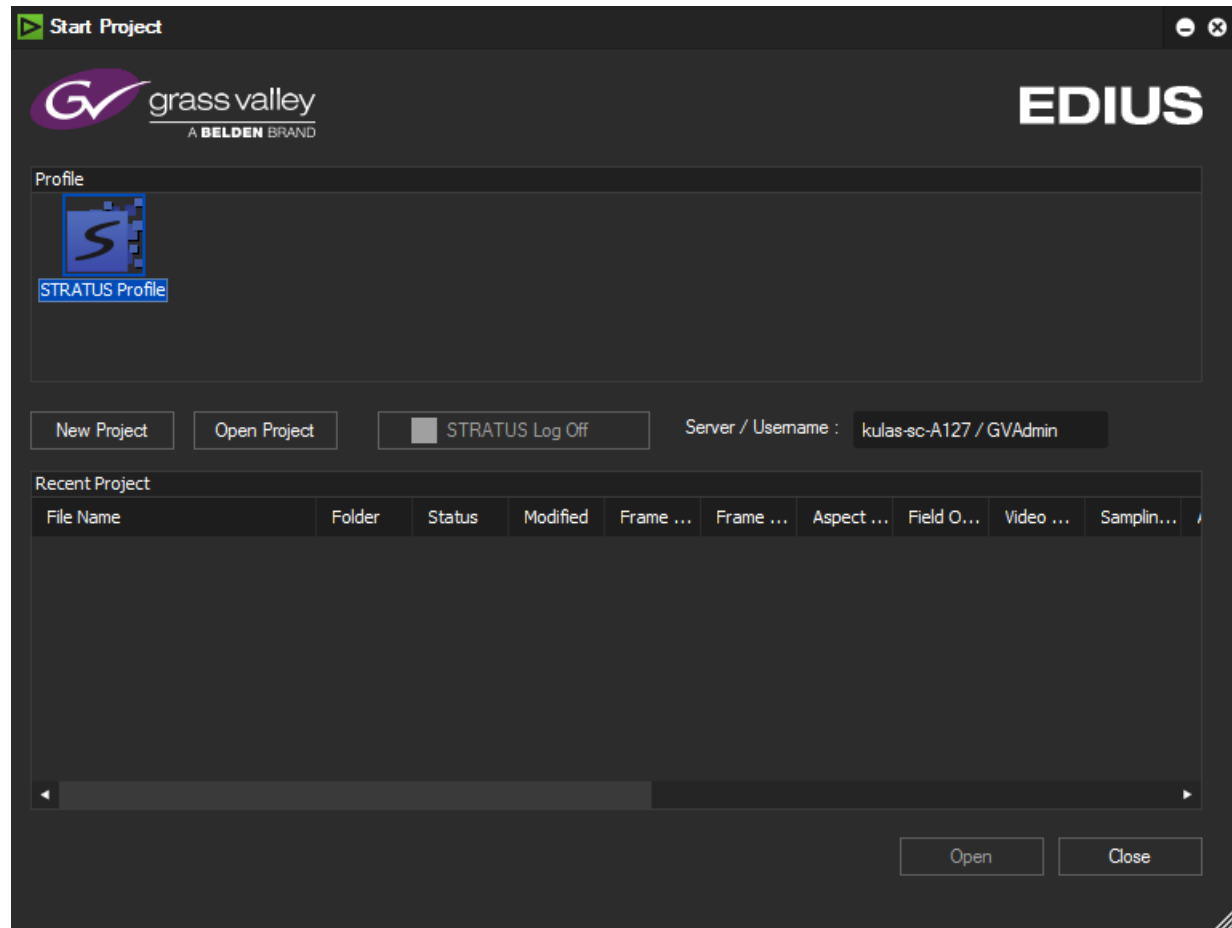
When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions

on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. From the Windows desktop, open the the **EDIUS** icon  shortcut.

2. Depending on licensing, do the following:

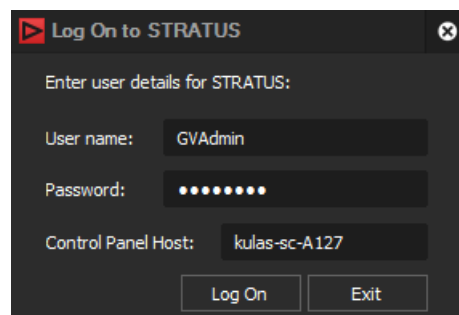
- If the client PC is licensed for EDIUS Workgroup, the **Start Project** dialog box opens.



Click **STRATUS Log On**.

- If the client PC is not licensed for EDIUS Workgroup, the **Start Project** dialog box does not open right away.

A **GV STRATUS Log On** dialog box opens.



3. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

4. Enter your password.
5. Verify or enter the name of the Control Panel Host for the GV STRATUS Control Panel Service. In most systems, this is the main GV STRATUS Core server.
6. Click **Log On**.

The **Open Project** dialog box displays.

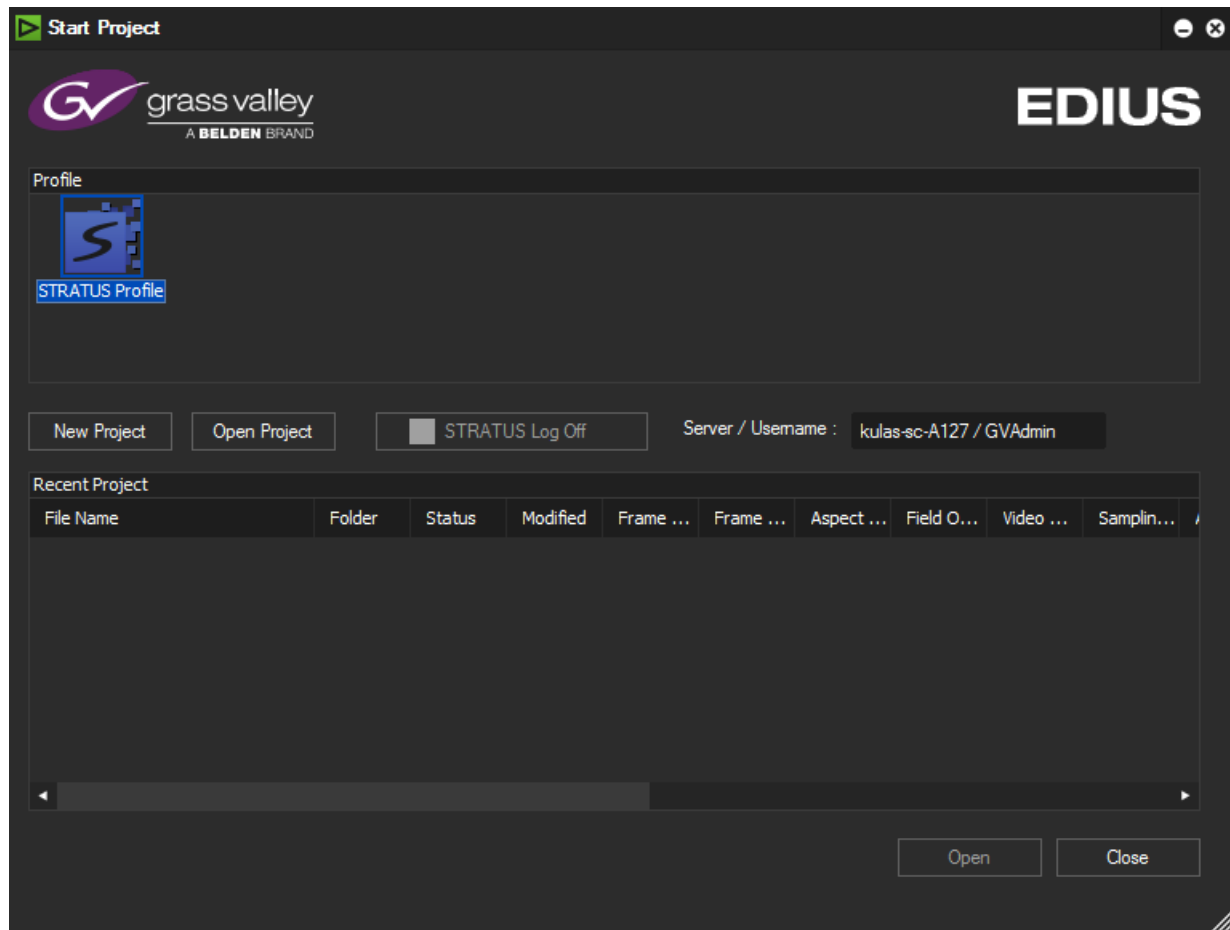
The EDIUS application can now access GV STRATUS assets. If the client PC is licensed for EDIUS Workgroup, the EDIUS application is now operating in STRATUS mode and can access high resolution assets. If not licensed, the EDIUS application accesses low resolution proxy assets only.

Related Topics

If you have trouble launching EDIUS XS on page 124

Opening an existing EDIUS project at application start

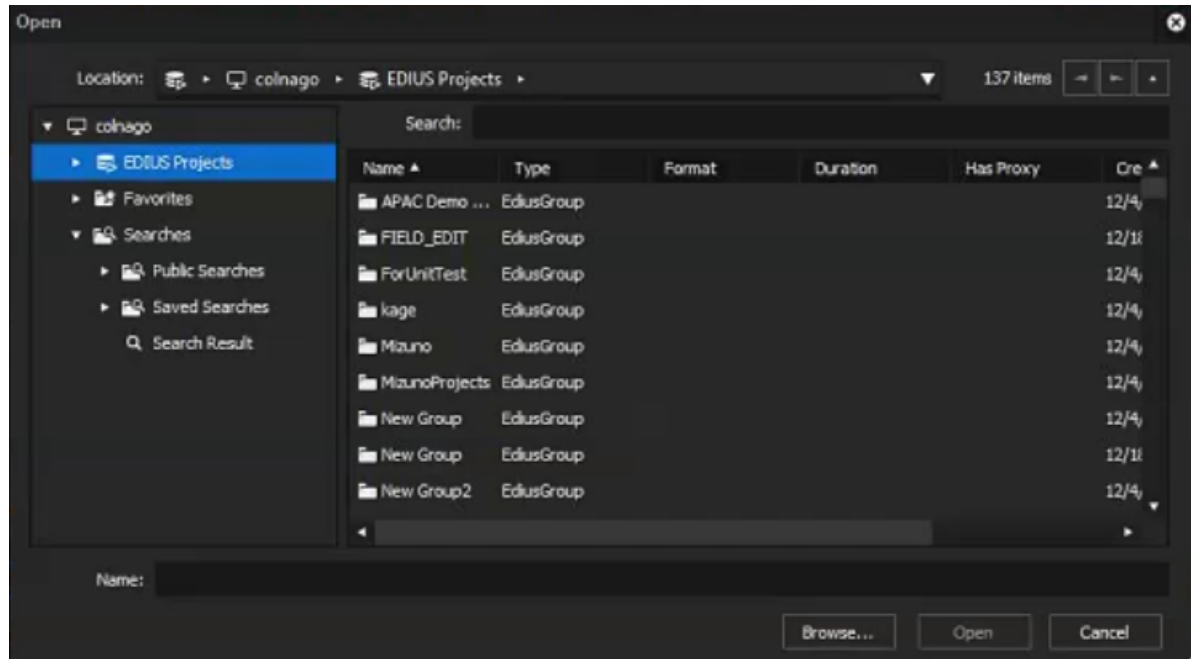
1. Open the EDIUS for GV STRATUS application and log on to the GV STRATUS system.
The **Start Project** dialog box displays.



2. Proceed as follows:

- If the desired project is listed in the **Recent Project** list, select the project and click **Open**.
The project opens. No further steps are necessary.
- If the desired project is not listed in the **Recent Project** list, click **Open Project** and continue with the remainder of this task.

The **Open** dialog box opens.



The project location is set by default to the **EDIUS Projects** folder in GV STRATUS.

3. Select a project in one of the following ways:

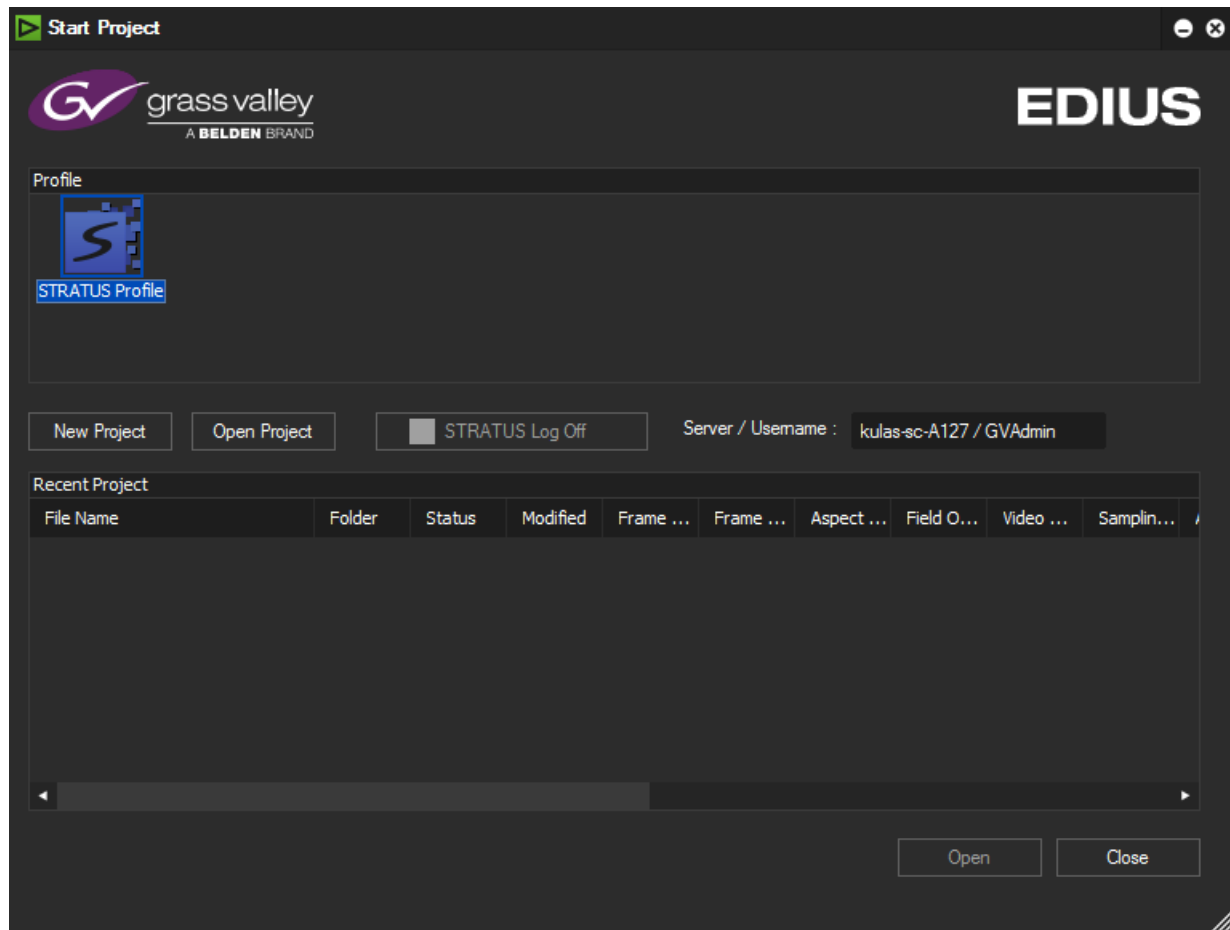
- Select the project in **EDIUS Projects** folder, and click **Open**.
- Enter the project name in the Search text box, select the project from the Search Result and click **Open**.
- If the project is outside the managed EDIUS projects folder, click **Browse** to navigate to and select the project.

The project opens.

While the EDIUS project is being edited, the project and its included sequences and clips are locked in the GV STRATUS application.

Creating a new EDIUS project at application start

1. Open the EDIUS for GV STRATUS application and log on to the GV STRATUS system.
The **Start Project** dialog box displays.



5. To create the project with different settings from the project preset settings, select **Customize**. Refer to [related topics](#) in "EDIUS Online Manual".
6. Click **OK**.

The new project opens.

While the EDIUS project is being edited, the project and its included sequences and clips are locked in the GV STRATUS application.

Related Topics

[The Storyboard Editor tool](#) on page 931

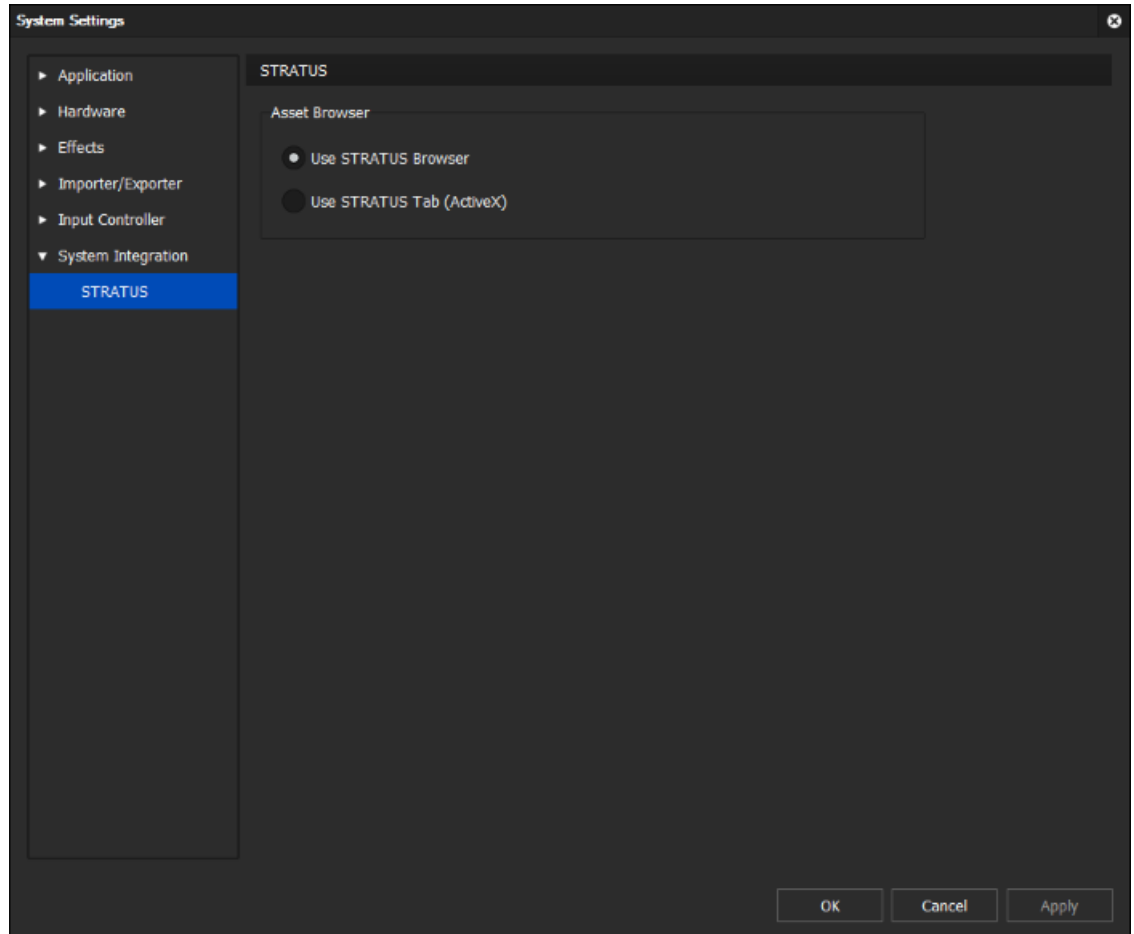
[Google](#)

Opening the GV STRATUS panel in EDIUS

If you launch the EDIUS for GV STRATUS application in STRATUS mode, the STRATUS tab or STRATUS Browser opens by default. However, if it was previously closed, the result can be that

it no longer opens automatically. If you do not launch the EDIUS for GV STRATUS in STRATUS mode, you must manually open the GV STRATUS tab or STRATUS Browser.

1. Click **Settings | System Settings | System Integration | STRATUS**.

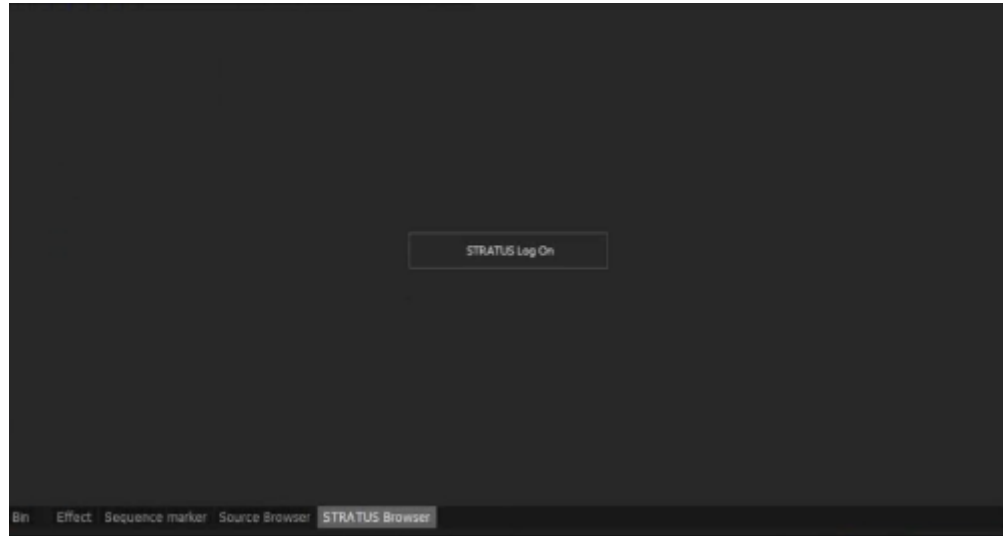


Select one from the following:

- Click **Use STRATUS Browser** to only browse and search GV STRATUS assets in EDIUS application.
 - Click **Use STRATUS Tab (ActiveX)** to utilize GV STRATUS tools in EDIUS application.
2. If the STRATUS Tab (ActiveX panel) is not open in the EDIUS application, click **View | Palette** and select **STRATUS**.
 3. If you are not already logged on to the GV STRATUS system, log on when prompted.
The STRATUS Tab (ActiveX panel) opens.

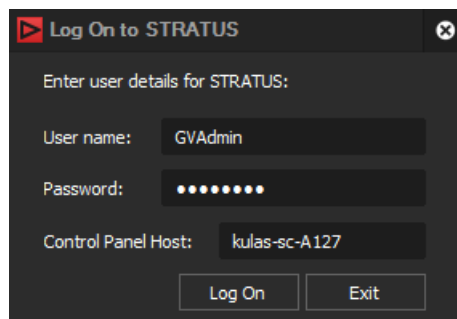
4. If STRATUS Browser is not open in the EDIUS application, click **View | Palette** and select **STRATUS Browser**.

The **STRATUS Log On** button displays.



5. Click the **STRATUS Log On** button.

A **Log On to STRATUS** dialog box opens.



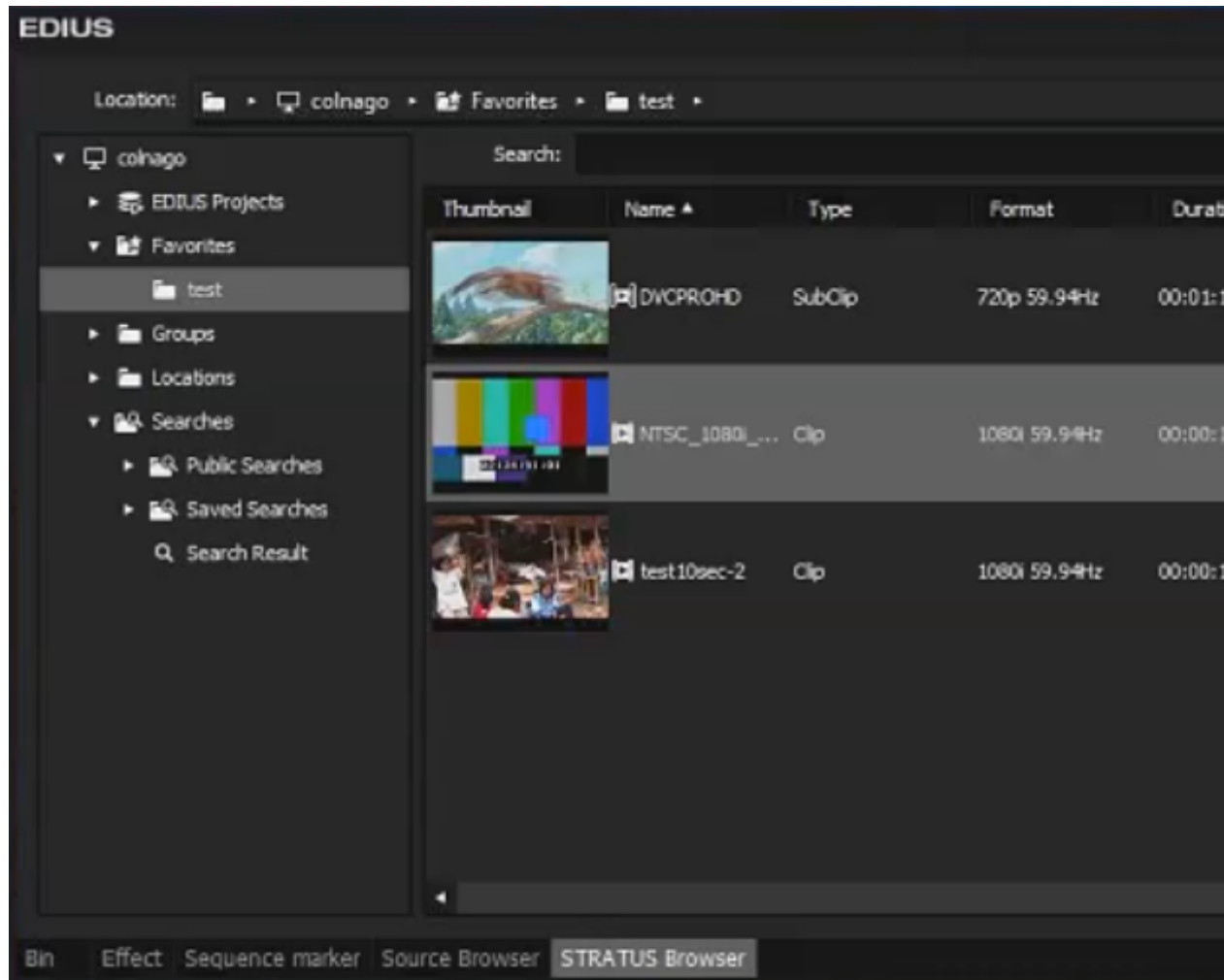
6. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

7. Enter your password.
8. Verify or enter the name of the Control Panel Host for the GV STRATUS Control Panel Service. In most systems, this is the main GV STRATUS Core server.

9. Click **Log On**.

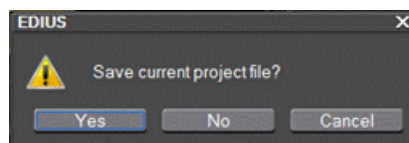
STRATUS Browser opens.



Opening GV STRATUS assets in the EDIUS for GV STRATUS application

1. In the GV STRATUS application, right-click an asset in an Asset List and select **Open With I EDIUS**.

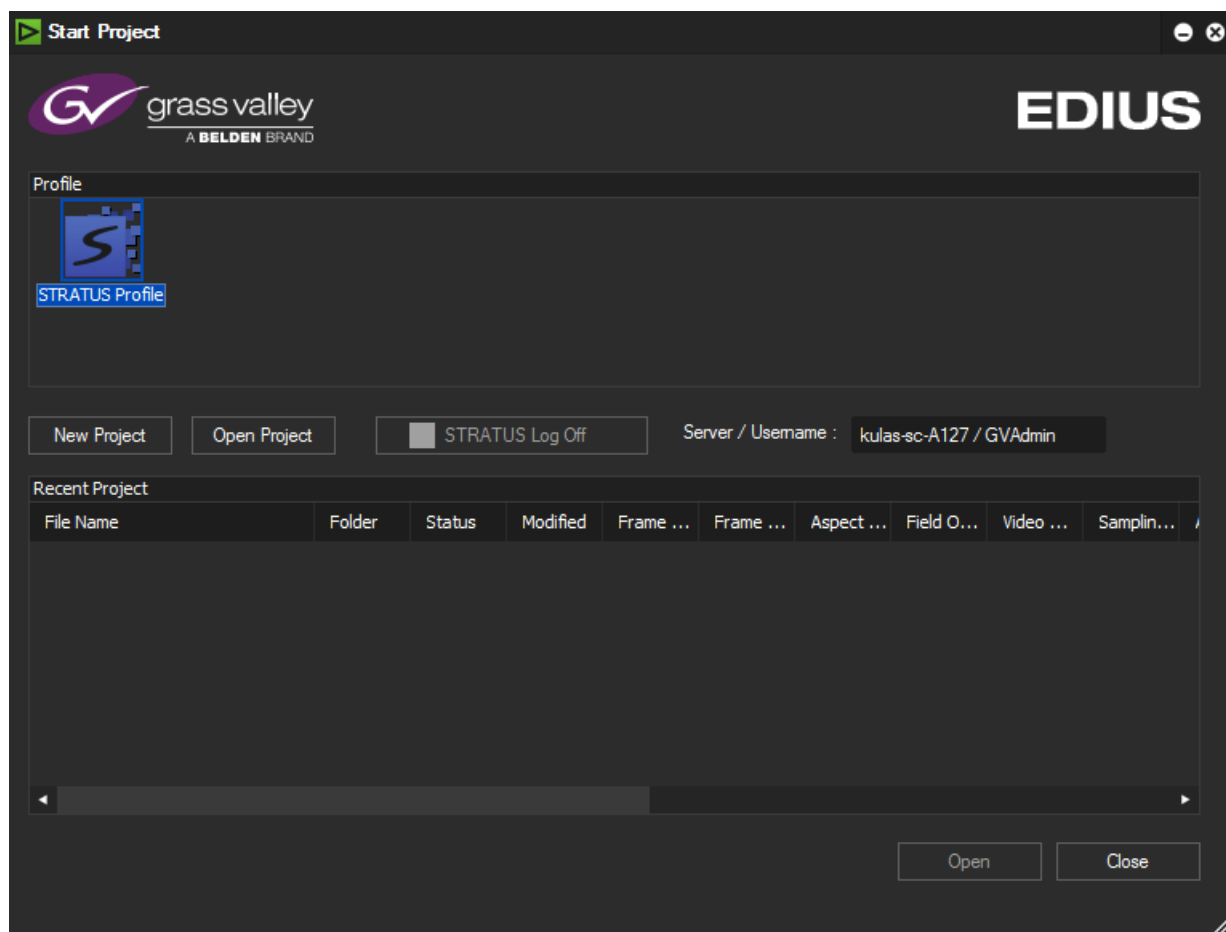
A dialog opens to confirm whether you want to save the current project.



2. Respond as appropriate for saving your project.

3. If the EDIUS for GV STRATUS application is not already open and you are not already logged on to the GV STRATUS system, log on as prompted.

The currently opened project in EDIUS closes and the **Start** dialog box opens.

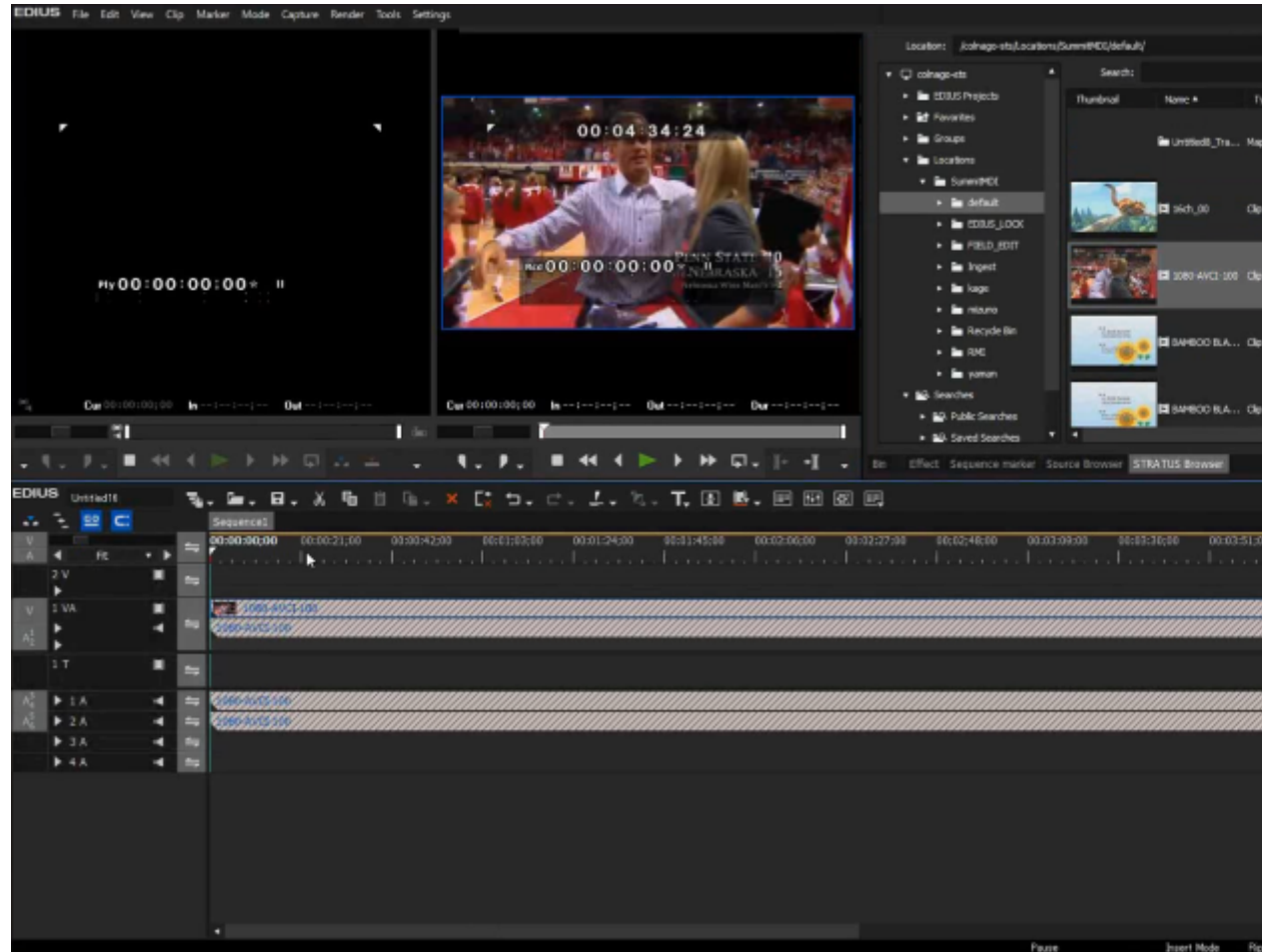


By default, the project location folder is the **EDIUS Projects** folder in GV STRATUS and it is set to create a folder with the project name.

4. Set a project folder in one of the following ways:
 - Click **New Project** and enter the project name.
 - Click **Open Project** to navigate to and select another project folder.

5. Click the **Open** button.

The project opens and the asset loads on the EDIUS timeline.



You can also select to open multiple assets simultaneously on the timeline.

In the STRATUS Browser, you can search for assets or select assets from **Saved Searches** and **Favorites** bin.

After adding assets to the timeline; you can edit, apply effects, and add voice overs to those assets.

Viewing GV STRATUS assets in the EDIUS for GV STRATUS application

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets,

and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

1. Drag an asset from the STRATUS ActiveX panel or STRATUS Browser, and drop it into the EDIUS Player window.

The asset displays in the EDIUS Player window.



2. Navigate through the asset using the appropriate transport controls on the Player.

Proxy-only assets can also be loaded and viewed via the Player. However, a timeline with proxy-only assets can only be rendered via EDIUS, and not supported via GVRE.

Adding GV STRATUS assets to EDIUS timeline

This topic applies to the EDIUS for GV STRATUS application.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets,

and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

1. Drag an asset from the STRATUS ActiveX panel or STRATUS Browser, and drop it into the EDIUS timeline.

The asset displays in the EDIUS Player window and timeline.



You can also drag and drop multiple assets simultaneously into the timeline.

If a low resolution client, proxy assets display in slash pattern on the timeline.

NOTE: *Copy and paste operation is not supported between the GV STRATUS panel and EDIUS application.*

2. Repeat the above step until the sequence is complete.

While the EDIUS project is being edited, the project and its included sequences and clips are locked in the GV STRATUS application.

After adding assets to the timeline; you can edit, apply effects, and add voice overs to those assets.

If custom metadata is configured, red or yellow flags can be assigned to assets as follows:

- **Red flag:** When assigned, playback and broadcast of the asset is prohibited. No video and audio are available when you load the asset.


- **Yellow flag:** When assigned, playback and broadcast of the asset should proceed with caution. Video and audio are available for the asset.

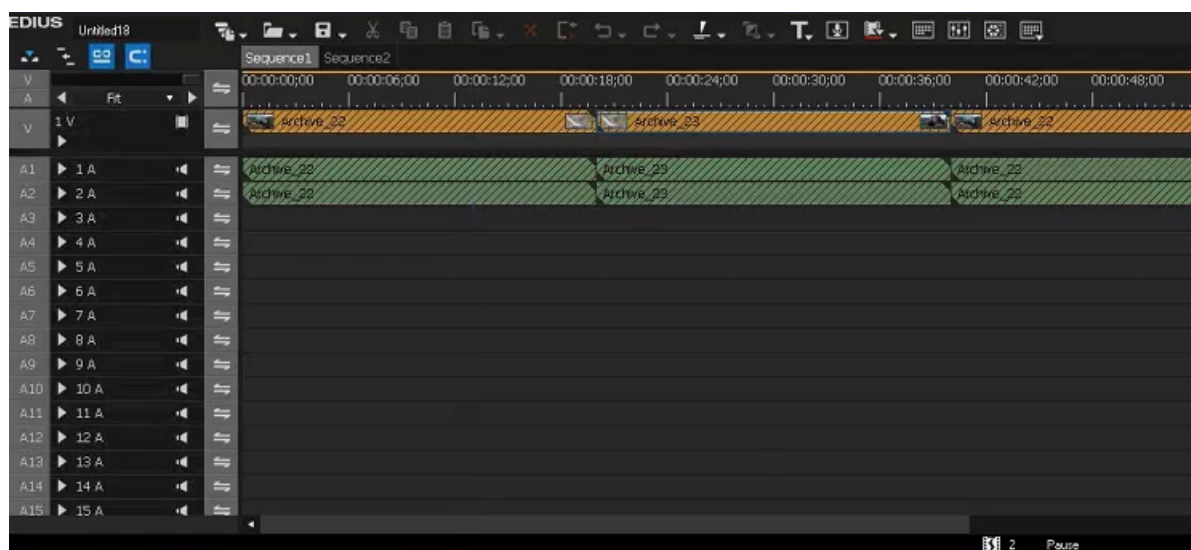
NOTE: Both red and yellow flag custom metadata are only supported for assets of type Clip and Subclip.

Restoring archived assets in EDIUS

Restoring of archived asset is only supported in the EDIUS Workgroup application.

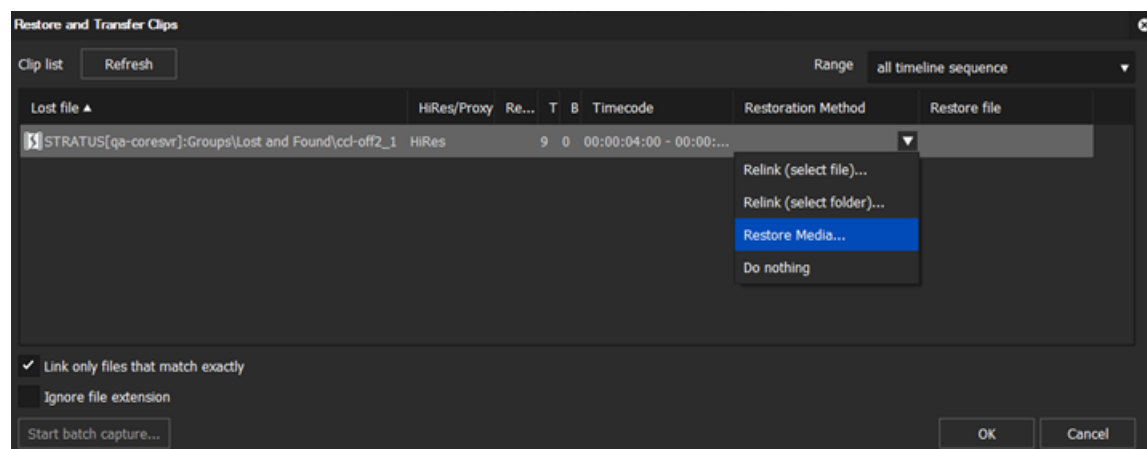
You can restore the high-resolution asset even if it has been archived by the GV STRATUS application.

1. Double-click the **Offline** icon  on the status bar below the EDIUS timeline.



NOTE: The number of offline assets is also displayed next to the Offline icon.

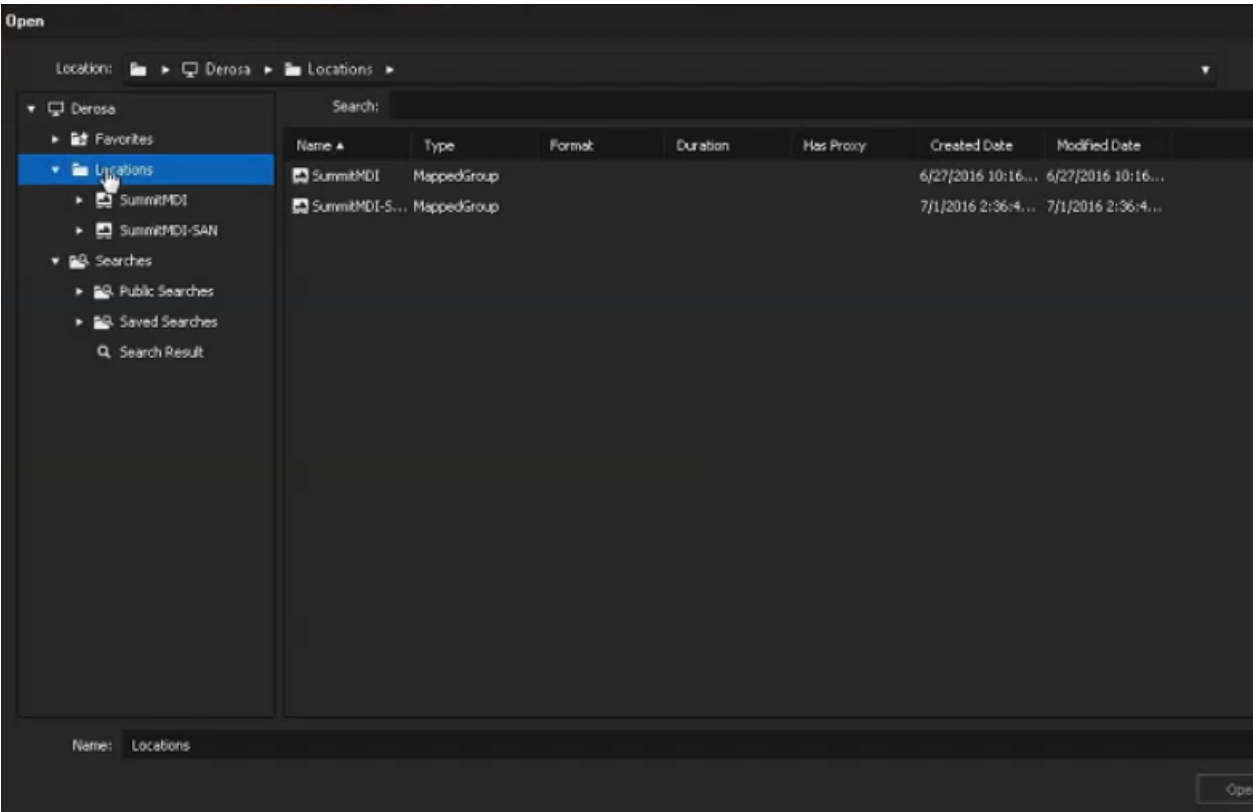
The **Restore and Transfer Clips** window opens.



2. Select the asset to be restored and click the drop-down list under the **Restoration Method** column.

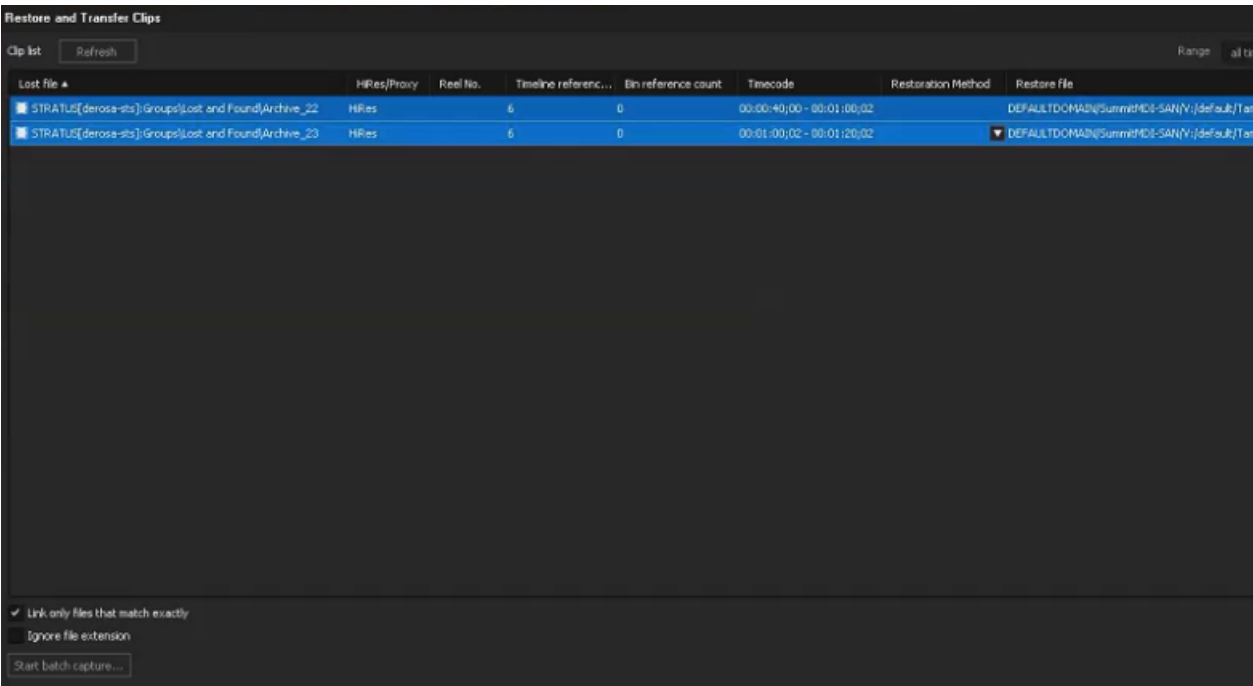
- 3. Select **Restore Media**.

The **Open** window launches.



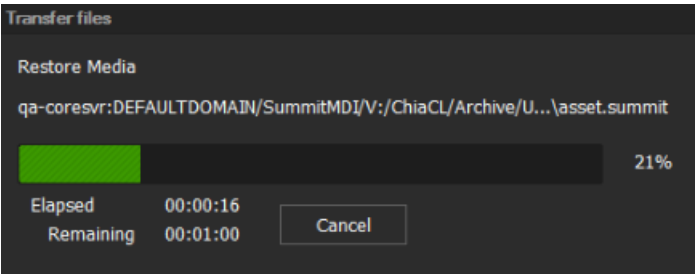
- 4. Select the destination of asset to be restored and click **Open**.

The selected location displays under the Restore File column in the **Restore and Transfer Clips** window.



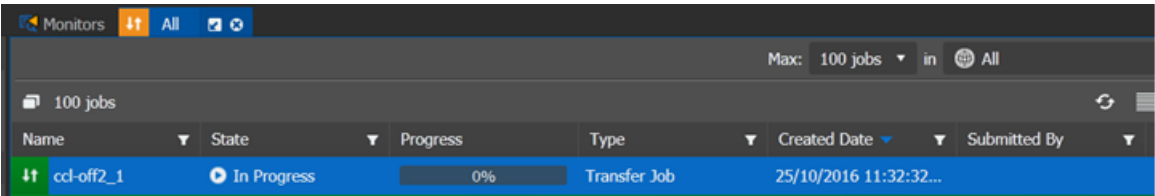
- 5. Click **OK**.

EDIUS triggers the restore from archive system and transfer the high-resolution assets.

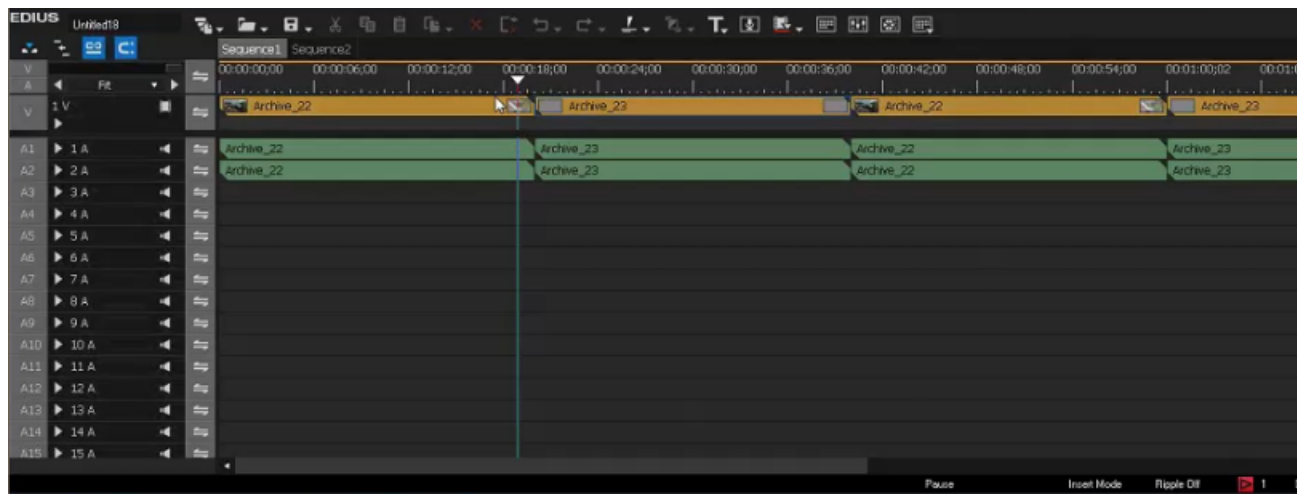


NOTE: *Once in progress, cancellation of the Restore Media operation is not supported.*

You can also monitor the transfer on the GV STRATUS Jobs Monitor.



After a successful transfer, assets appear as online on the EDIUS timeline.

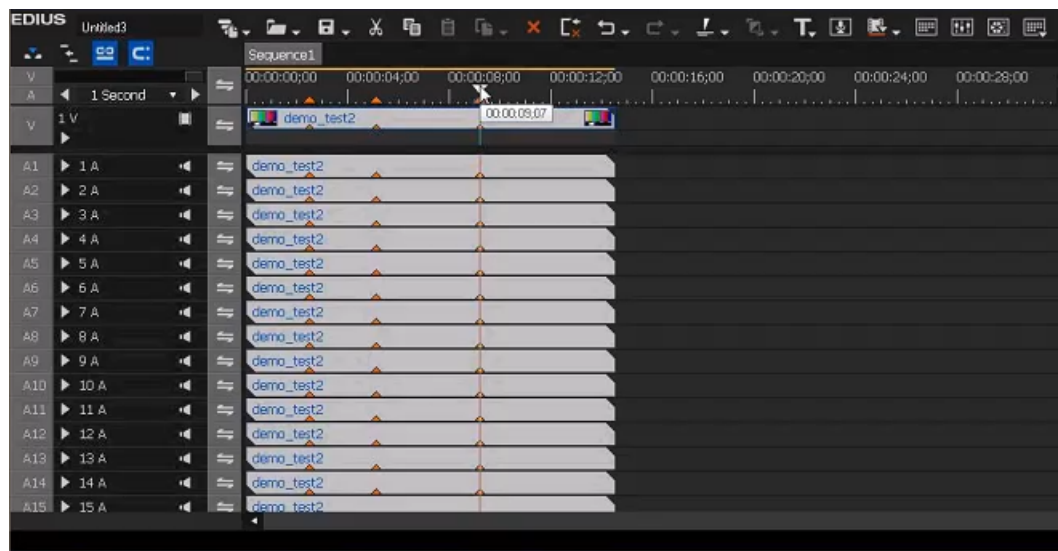


Sending EDIUS sequences with markers and keywords to GV STRATUS

1. Select a sequence on the EDIUS timeline.

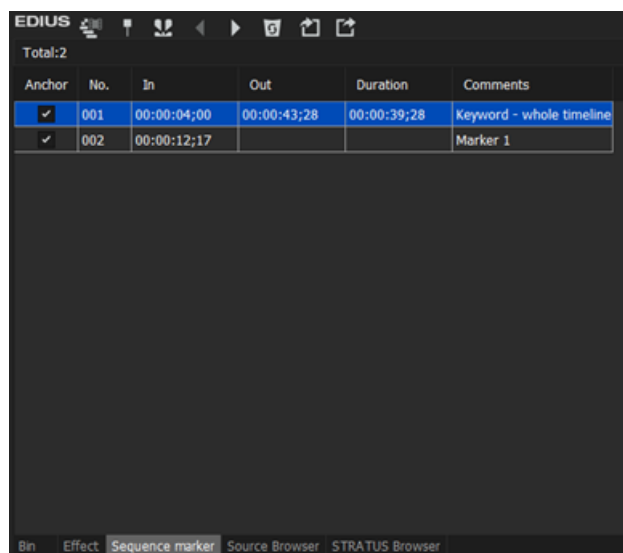
NOTE: *Markers and keywords of the original source clip are not supported to be sent to the GV STRATUS system.*

However, if you create markers and keywords according to the following procedure; they will also be sent to GV STRATUS system together with the sequence.



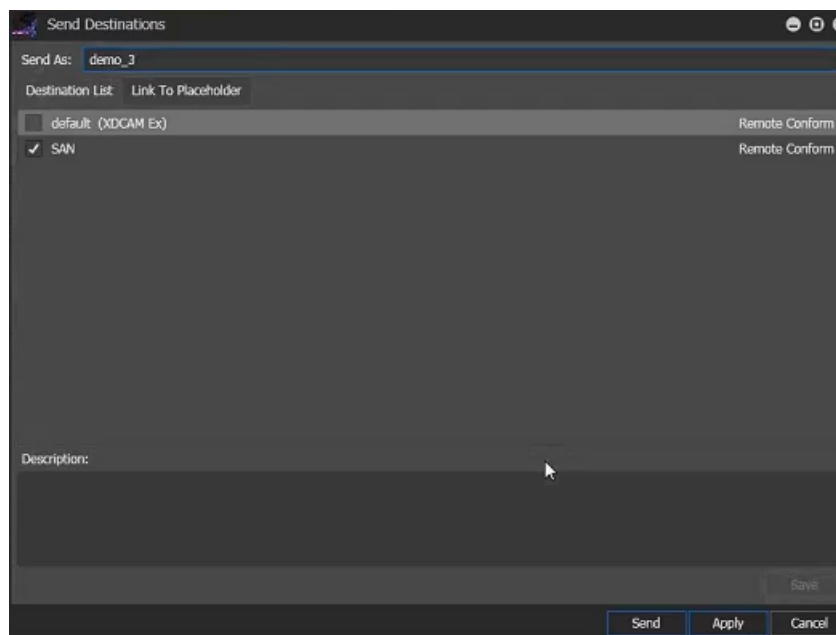
2. To create markers/keywords on the EDIUS timeline, scrub the cursor to the desired time/duration, select the **Sequence Marker** tab and do the following:
 - To create a marker, right-click on the **Sequence Marker** tab, and select **Set Mark**.
 - To create a keyword, right-click on the **Sequence Marker** tab, and select **Set Mark In/Out**.

Markers and keywords display on the **Sequence Marker** tab.



3. Press the **F11** key.

The **Send Destination** dialog box opens.



4. Enter the name of the sequence in the **Send As** box.
5. In the **Destination List**, select one or more conform destinations.

NOTE: You cannot select both transfer and conform destinations at the same time.

6. If configured for a Newsroom Computer System, you can also link the sequence to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

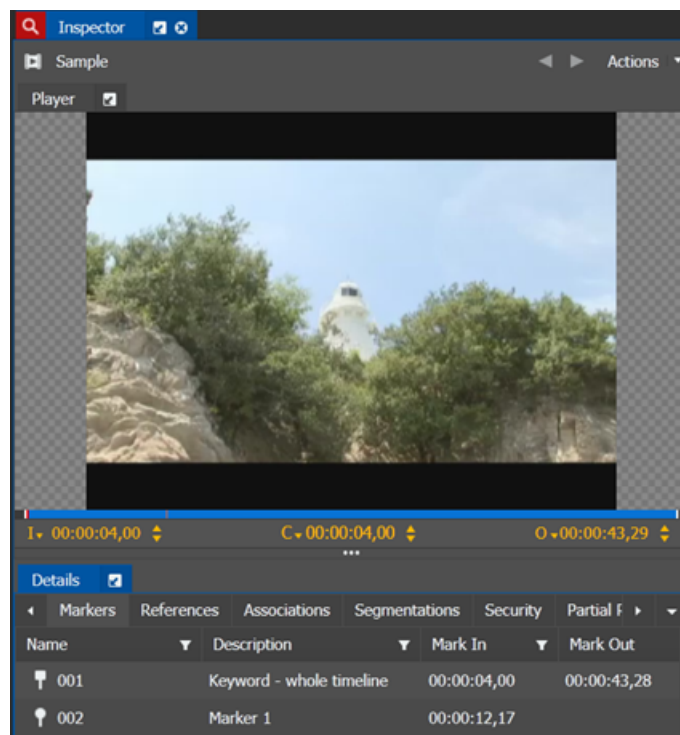
The placeholder description is updated.
7. Click **Send**.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

The sequence is sent to the GV STRATUS system.

You can check the progress of the transfer in the GV STRATUS Jobs Monitor.

Once the transfer is complete, you can view the asset in the Inspector.



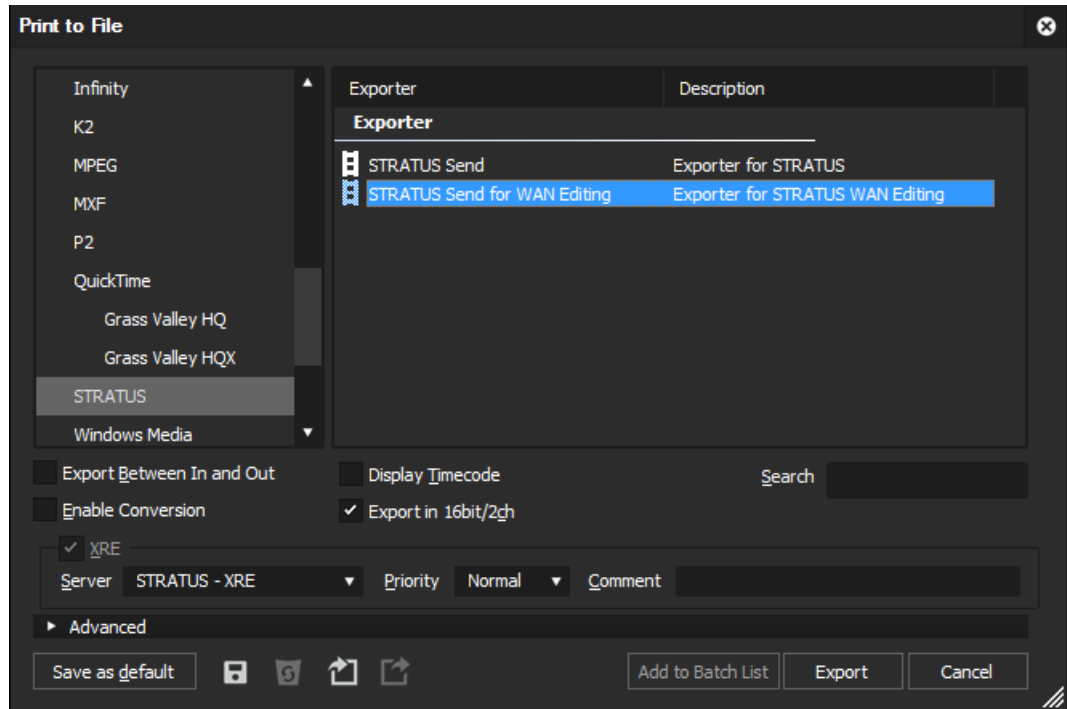
Markers and keywords created in EDIUS can be viewed on the Markers tab of the Inspector.

Sending EDIUS sequences to the K2 system

You can send a sequence in EDIUS directly to a playout bin on the K2 system. The sequence can only be sent via the GV STRATUS Render Engine server.

1. Select a sequence on the EDIUS timeline.

2. Press the **F11** key, then proceed as follows:
 - For the low-resolution EDIUS for STRATUS application (EDIUS XS), the **Send Destination** dialog box opens. Skip ahead to the next step.
 - For the high-resolution EDIUS for STRATUS application (EDIUS Workgroup), the **Print to File** dialog box opens. Do the following substeps:



- a) Make sure **XRE** is selected.
- b) In the Exporter section, select **STRATUS Send** and then click **Export**.
The **Send Destination** dialog box opens.

Send As: PH_Story0002_SIT12OK8

Destination List Link To Placeholder

<input type="checkbox"/>	pipu	Confo
<input checked="" type="checkbox"/>	Playout	Trans
<input type="checkbox"/>	Playout original	Trans
<input type="checkbox"/>	Playout(stratus_sm_1)	Remote Trans
<input type="checkbox"/>	rem_cfm_10_playout	Remote Confo
<input type="checkbox"/>	rem_cfm_11_Playout	Remote Confo
<input type="checkbox"/>	remote_10_playout	Remote Trans
<input type="checkbox"/>	remote_ylsan_conform	Remote Confo
<input type="checkbox"/>	remote_ylsan_playout	Remote Trans
<input type="checkbox"/>	RMI	Trans
<input type="checkbox"/>	s11-tr	Remote Trans
<input type="checkbox"/>	S13-playout conf.	Confo
<input type="checkbox"/>	Summit10_Test	Remote Trans

Description:

Save

Security... Send Apply Cancel

- Enter the name of the sequence in the **Send As** box.

Asset and bin names must comply with K2 system specifications.

- In the **Destination List**, select destinations as follows:

- Select one or more transfer destinations
- Select one or more conform destinations

You cannot select both transfer and conform destinations.

5. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
6. Click **Send**.

The transfer is initiated. If transferring multiple assets, transfer jobs are queued.

The sequence is sent to the playout server.

You can check the progress of the transfer in the GV STRATUS Jobs Monitor.

Importing still images and audio clip from EDIUS to GV STRATUS

Before performing this task, there must be a shared folder that both the GV STRATUS/EDIUS client PC and the GV STRATUS Render Engine can access. Files like audio clips and still images are located in this shared folder.

1. Open the EDIUS for GV STRATUS application.
2. In Window Explorer, open the shared folder.
3. Browse the folder and select the files that you want to copy to the timeline.
4. Drag the still images and audio files from the shared folder and drop them into the EDIUS timeline.
5. When editing is complete, send the sequence to the K2 system.

The sequence becomes a GV STRATUS system asset. The asset includes the still images and the audio clips.

Related Topics

[Sending EDIUS sequences to the K2 system](#) on page 983

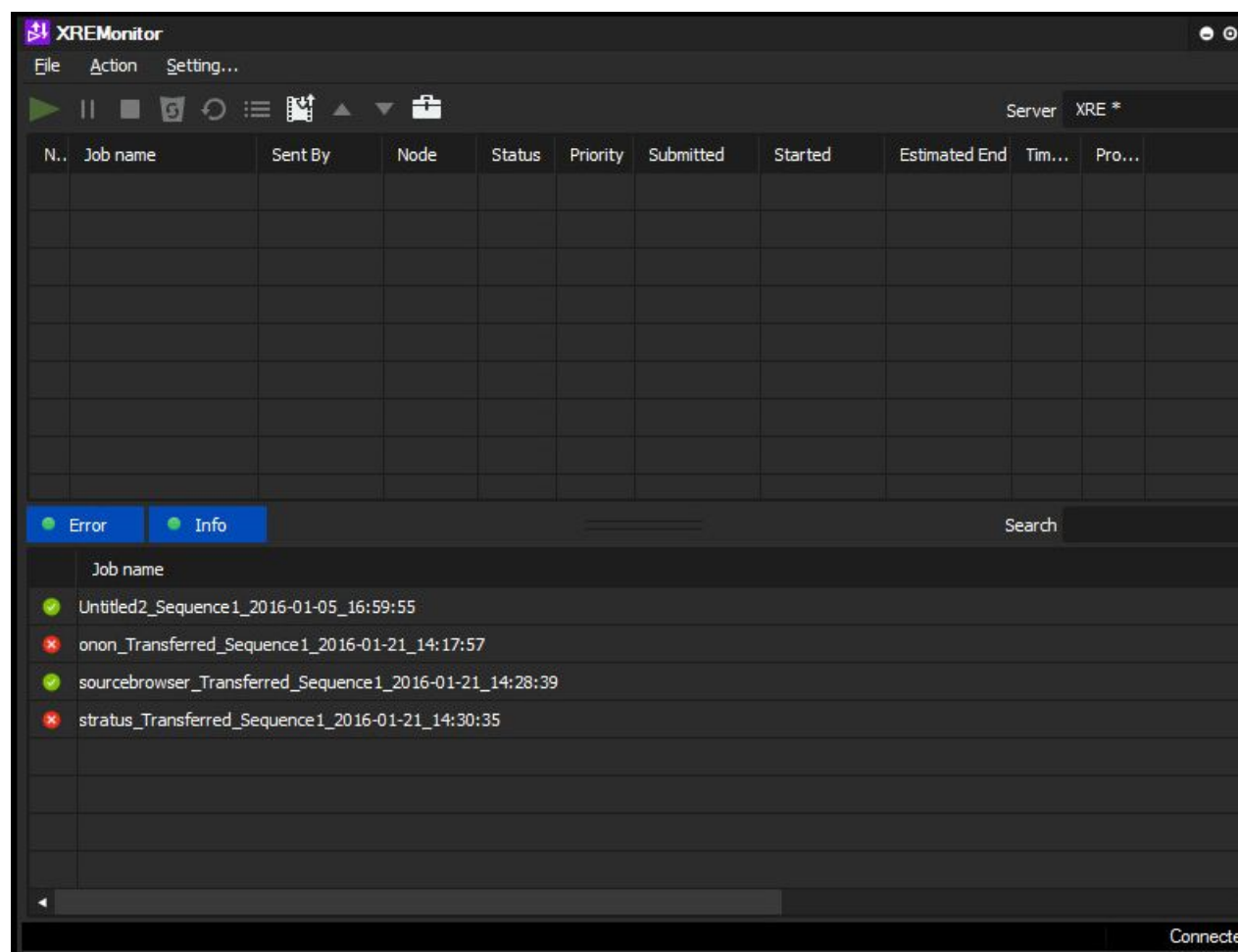
Using XRE Monitor

The XRE Monitor tracks the status of EDL files sent to a specified Render Engine Server, allowing you to quickly monitor multiple Render Engine Servers and their current job queue.

Once an item is in the queue, you can stop the current job if you need to reprioritize or re-edit a sequence. You can also filter the jobs that display in the XRE Monitor, letting you see only those jobs you need to monitor.

1. From the Windows desktop, click the **Start | All Programs | Grass Valley | XREMonitor** icon.

The XRE Monitor opens.



2. View the progress of sent EDL files.

Field or button	Description
Server	A drop-down list of the Render Engine Servers available to you at your location
Setting Add	Lets you add a Render Engine Server to the XRE Monitor
Setting Delete	Lets you remove a Render Engine Server from the XRE Monitor
Stop/Continue	Stops or pauses the dynamic updates of the XRE Monitor; it has no impact on the Render Engine Server itself
No.	The XRE Monitor assigns a unique ID to each job that comes in; each job increments the ID by one
Job Name	Name of the clip as sent to the Render Engine Server
Sent By	Name of the machine that sent the job
Status	Gives updated status on the completion of a job; status messages include "Job completed successfully", "Job failed"; failure messages may provide information on some functions
Started	Indicates when the job began transferring
Progress	Specifies what percentage of the job has completed; updates automatically
Time Remaining	Specifies how long the job takes to finish the transfer process
Search	Lets you search what jobs to view; you can filter by Job name, Sent By, or by specified time in hours and minutes
Cancel	Click to cancel jobs you have selected
Close	Click to exit out of the XRE Monitor

About EDIUS field editing

With an EDIUS Workgroup workstation in the field, you can integrate with the GV STRATUS system at your home site to combine both field and home assets on the same timeline.

Field Editing integration with GV STRATUS provides the following:

- Add assets you have procured in the field to the timeline. These are high-resolutions assets stored on the local EDIUS Workgroup workstation.
- Access assets from the home GV STRATUS system as proxy media.
- Mix the home site proxy assets and the local high-resolution assets on the same project/timeline.
- Send the completed project/sequence to the home GV STRATUS system. The project/sequence is rendered and becomes a GV STRATUS asset.

You can drag assets from the GV STRATUS Asset List and drop them onto the EDIUS timeline.

From the timeline that contains both high-resolution field assets and proxy home assets, you can create a project or a story. You can do this while you are in the field yet remotely connected to the GV STRATUS system at your home site.

EDIUS Workgroup allows mixed-format editing as it converts between HD and SD resolutions, aspect ratios, and frame rates in real time during rendering by the GV STRATUS Render Engine at the home site.

The EDIUS Workgroup application automatically provides field editing capabilities as follows:

- The project must be saved in a location outside of the managed project location on the v: drive. Typically, the project is saved on the GV STRATUS/EDIUS client PC local drive. EDIUS Workgroup must be operating in standalone mode (not GV STRATUS mode) to create and save a project outside of the managed project location.
- The EDIUS timeline must be exported using the **Print to File** dialog box configured for **XRE** and **STRATUS Send**. This sends to the home GV STRATUS system for rendering by the GV STRATUS Render Engine.

Field editing on the EDIUS timeline

You can use the proxy assets from the home GV STRATUS system and mix with high-resolution assets gathered in the field.

1. On the EDIUS Workgroup workstation, launch the EDIUS for GV STRATUS application.

Do not log on to the GV STRATUS system at application launch.

NOTE: *It is recommended to use standalone mode to avoid unexpected traffic on the network. You can select the **STRATUS Send for WAN Editing** option when sending the asset later.*

2. Create and save a project in a location outside of the managed project location on the v: drive.
3. In the EDIUS Workgroup Source Browser, select a local high-resolution asset and drag it onto the timeline.
4. Launch the STRATUS ActiveX panel or STRATUS Browser.
5. Log on to the GV STRATUS system when prompted.

The GV STRATUS panel opens.

6. In the EDIUS Workgroup GV STRATUS panel, select a GV STRATUS proxy asset and drag it onto the timeline.

The proxy asset on the timeline displays diagonal lines to indicate that it is proxy.

The timeline contains both high-resolution and proxy assets.

Next, edit the EDIUS project sequence as desired. Then send the project to the home GV STRATUS system.

Related Topics

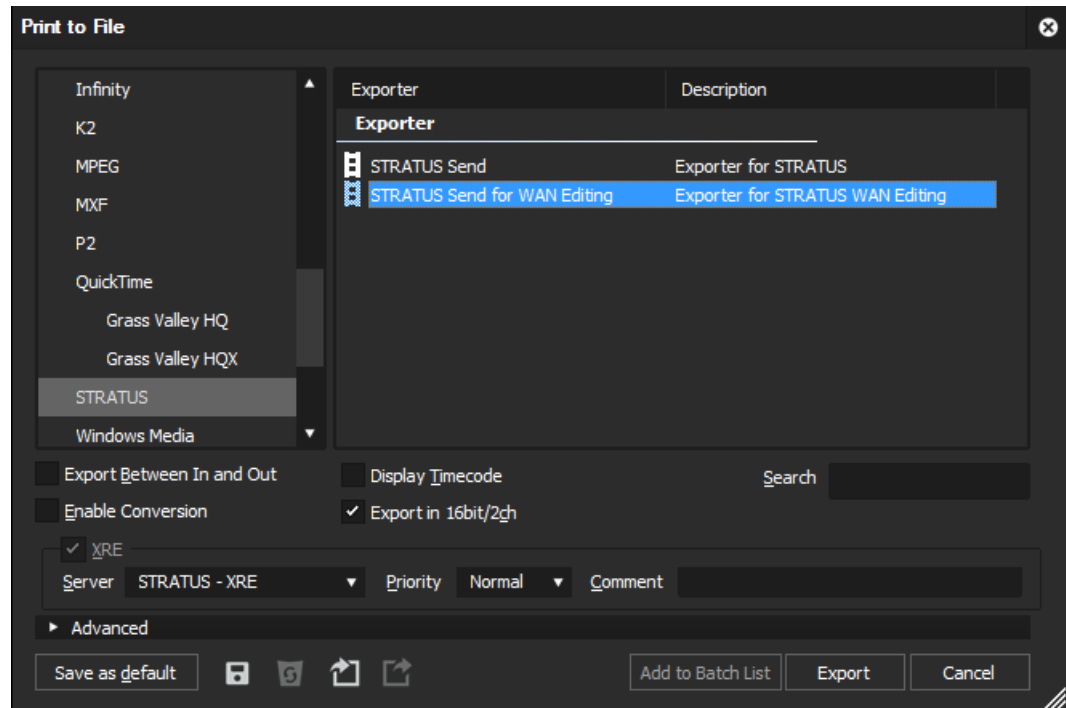
[Sending the field EDIUS project to the home GV STRATUS system](#) on page 990

Sending the field EDIUS project to the home GV STRATUS system

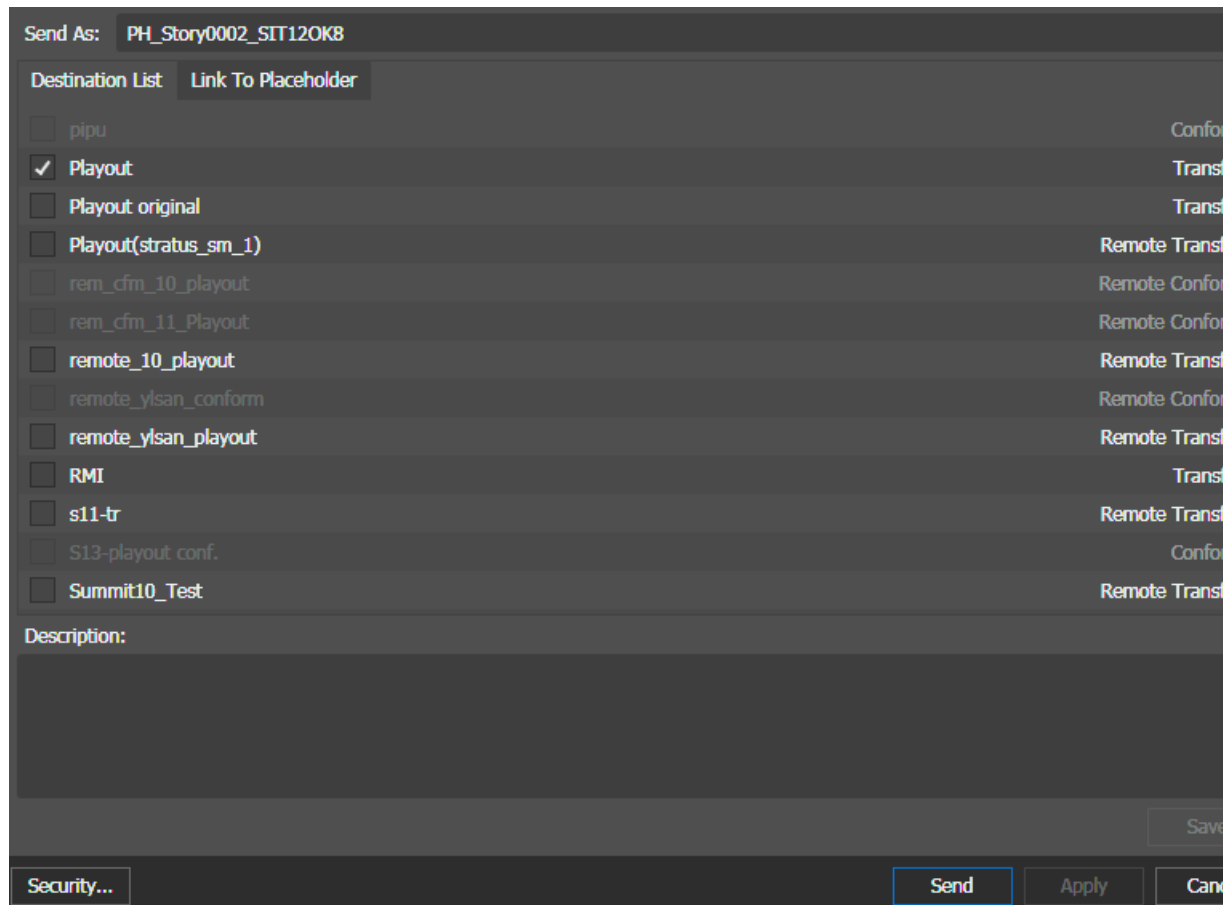
- The project must be saved in a location outside of the managed project location on the v: drive.

1. Select a sequence on the EDIUS timeline.
2. Press the **F11** key.

The **Print to File** dialog box opens.



3. On the **Print to File** dialog box, do the following substep:
 - a) Select the **STRATUS Send for WAN Editing** Exporter and then click **Export**.
The **Send Destination** dialog box opens.



4. Enter the name of the sequence in the **Send As** box.
Asset and bin names must comply with K2 system specifications.
5. In the **Destination List**, select destinations as follows:
 - Select one or more transfer destinations
 - Select one or more conform destinations

You cannot select both transfer and conform destinations.

6. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
 - a) On the **Link To Placeholder** tab, select a placeholder.

If a remote placeholder, expand the remote site node.

If already linked to a placeholder, you can select a different placeholder.
 - b) If desired, in the **Placeholder Description** field, enter text and click **Save**.

The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
7. Click **Send**.

The transfer is initiated.

Dialog boxes report progress.

The EDIUS Workgroup application closes and opens the **Startup** dialog box.

The EDIUS Workgroup field-to-home site render process creates a GV STRATUS asset from the EDIUS Workgroup project.

You can check the progress of the transfer in the GV STRATUS Jobs Monitor.

Related Topics

[*EDIUS Workgroup field-to-home site render process*](#) on page 992

EDIUS Workgroup field-to-home site render process

When you use the EDIUS field editing with GV STRATUS to send a field project to the home site GV STRATUS system, the following occurs:

1. For proxy assets, EDIUS Workgroup sends project information to the home GV STRATUS system.
2. For high-resolution assets in a format supported by GV STRATUS, EDIUS Workgroup sends only the edited portion to the home GV STRATUS system. If the high-resolution asset is in a format not supported by GV STRATUS, EDIUS Workgroup sends the entire asset to the home GV STRATUS system.
3. EDIUS Workgroup sends high-resolution assets in H.264 format.
4. At the home GV STRATUS system, the Render Engine server receives the EDIUS project and related information.
5. For the proxy asset information received from EDIUS Workgroup in the field, the Render Engine server access the associated high-resolution asset on the home GV STRATUS system.
6. The Render Engine server combines the H.264 assets received from EDIUS Workgroup in the field with the high-resolution assets from the home GV STRATUS system and conforms the project to a GV STRATUS asset in the house format.

Optionally, if you are at the home site later and you connect the EDIUS Workgroup workstation that was in the field to the home GV STRATUS system, you can re-render the EDIUS Workgroup project. When you do so, the Render Engine server uses the high-resolution assets on the EDIUS Workgroup workstation that you procured in the field, rather than H.264 assets. The result is a higher resolution for the field assets in the conformed GV STRATUS asset.

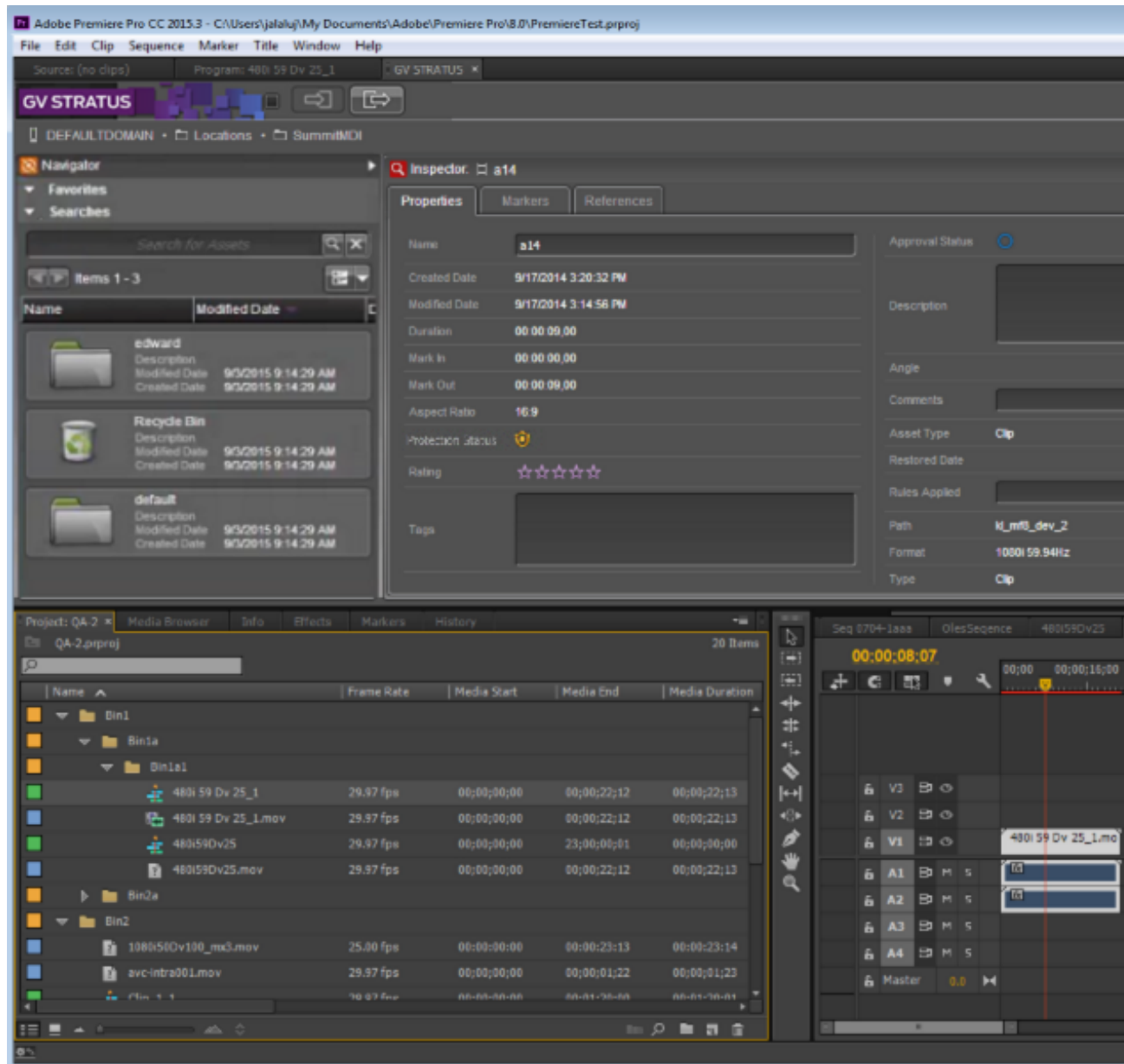
Using the GV STRATUS application in Adobe Premiere Pro CC

You can launch the GV STRATUS application as a plug-in within the Adobe® Premiere® Pro CC application. This allows you to use GV STRATUS to access assets in the K2 SAN system for an edit-in-place workflow and consolidate your editing operation in just one workspace.

The GV STRATUS plug-in consists of the Navigator and Inspector panels. You can search for assets, navigate to assets, view asset properties, modify asset properties, and import assets into your project and timeline using the GV STRATUS plug-in. With this workflow, you can easily access your high resolution media, edit sequences using the Adobe® Premiere® Pro CC application, and export sequences via GV STRATUS plug-in.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions. You can only view metadata with read permissions, and modify metadata with write permissions. If read or write permissions are denied, your metadata fields will be disabled.



Setting up K2 storage for Adobe Premiere Pro CC

Before installing GV STRATUS for Adobe® Premiere® Pro CC , set up the required support in K2 storage.

1. Ensure the Adobe Premiere Pro editor user accounts have access to the K2 media file system v: drive.

2. On the K2 Media Server with role of file system server (FSM), set up the Adobe directory.
 - a) Share the *v:* drive with Everyone, Read/Write permissions.
 - b) On the root of the *v:* drive, create a directory named *Adobe*.
 - c) On the root of the *v:* drive, create a directory named *AdobeExporters*.
3. Set up a plan to periodically delete the files in the Adobe directory.
 For each asset imported from K2 storage into Adobe Premiere Pro, a temporary FCP XML file is created in the Adobe directory. Once the import succeeds the XML file is no longer needed. To maintain file system health, purge the directory on a regular basis.

License GV STRATUS for Adobe Premiere Pro

The Adobe Premiere Pro Sabretooth license is installed on the GV STRATUS server with role of Common Services. Typically the GV STRATUS Core server has the role of Common Services.

The Adobe Premiere Pro license is as follows:

- STRA-PREM-CONNECT

If you received your system pre-configured from Grass Valley, licenses are already installed, so you can skip these tasks. Otherwise, do the following:

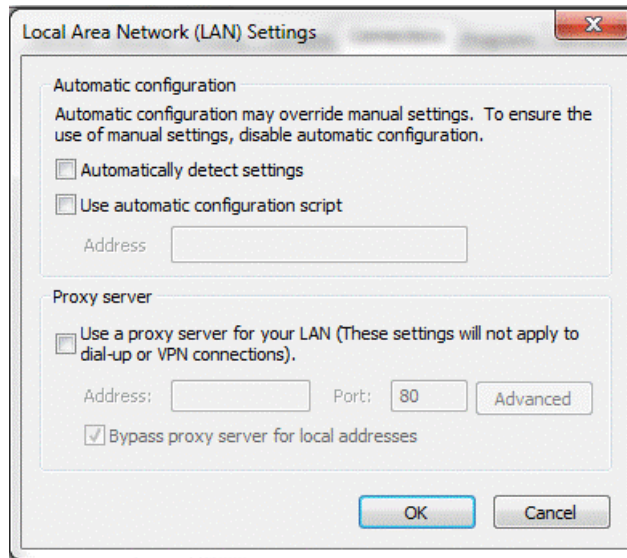
1. Refer to the license sheet that you received with your GV STRATUS license. The license sheet has the Sales Order number that you need.
2. On the GV STRATUS server with role of Common Services, run the SabreTooth License Manager, generate a unique ID, and send the email to Grass Valley requesting your license or licenses. Refer to this Topic Library for detailed licensing procedures.
3. When you receive your license file, use SabreTooth License Manager and install it on the server.

Installing Adobe Premiere Pro CC and GV STRATUS plug-in

- The GV STRATUS extension plug-in file must be accessible from your machine.
 - The GV STRATUS Xcode Control Engine must be installed and configured on the GV STRATUS Core server.
 - K2 storage must be set up with Adobe directories.
 - The Adobe Premiere Pro SabreTooth License must be installed on the GV STRATUS Core server.
1. Install the Adobe Creative Cloud desktop application.
 2. Launch the Adobe Creative Cloud and select **Apps**.
 3. Select **Premiere Pro CC (2017)** in the Adobe Creative Cloud.
 4. Click the **Install** button.

Premiere Pro CC (2017) installs and displays in the **Apps** section.

5. Launch your Windows Control Panel to select **Internet Options | Connections | LAN Settings** and clear the **Proxy server** setting as below:



If this setting is enabled, the proxy server slows the performance of your Adobe Premiere Pro CC application.

6. To install the GV STRATUS Plug-in, you must get the Extension Manager Command Line tool (ExManCmd) from the [Adobe Exchange webpage](#).
7. Select an installer according to your operating system, download and install the Extension Manager Command Line tool.
Do take note of the install location.
8. Launch the Command Prompt if you are using a Windows client, or the Terminal if you are on a Mac client. Then do the following:
 - a) Go to *ExManCmd.exe* file location by entering: `cd <location of ExManCmd.exe>`
 - Example for Windows client: `cd C:\Users\Administrator\Desktop\ExManCmd_win\`
 - Example for Mac client: `cd Desktop\Contents\MacOS`
 - b) To install the latest GV STRATUS plug-in, enter the path to the "GV STRATUS.zxp" file:
 - Example for Windows client: `ExManCmd.exe /install "C:\Users\Administrator\Desktop\4.8.0.39\GVSTRATUS_4.8.0.39.zxp"`
 - Example for Mac client: `./ExManCmd --install "/Users/Administrator/4.8.0.39/GVSTRATUS_4.8.0.39.zxp"`
9. Launch the Adobe Premiere Pro CC 2017 application.
10. Click **Window | Extensions | GV STRATUS**.
The GV STRATUS plug-in appears in the Adobe® Premiere® Pro CC application.
11. If GV STRATUS security is enforced, ensure that user accounts have permissions on bins, assets, and send destinations that are part of your Adobe® Premiere® Pro CC workflow.

Installing the self-signed GV STRATUS security certificate for Adobe Premiere Pro

This is only required if you are using Adobe Premiere Pro application version 9.1 and above with GV STRATUS plug-in.

Installing the self-signed GV STRATUS security certificate on Windows clients

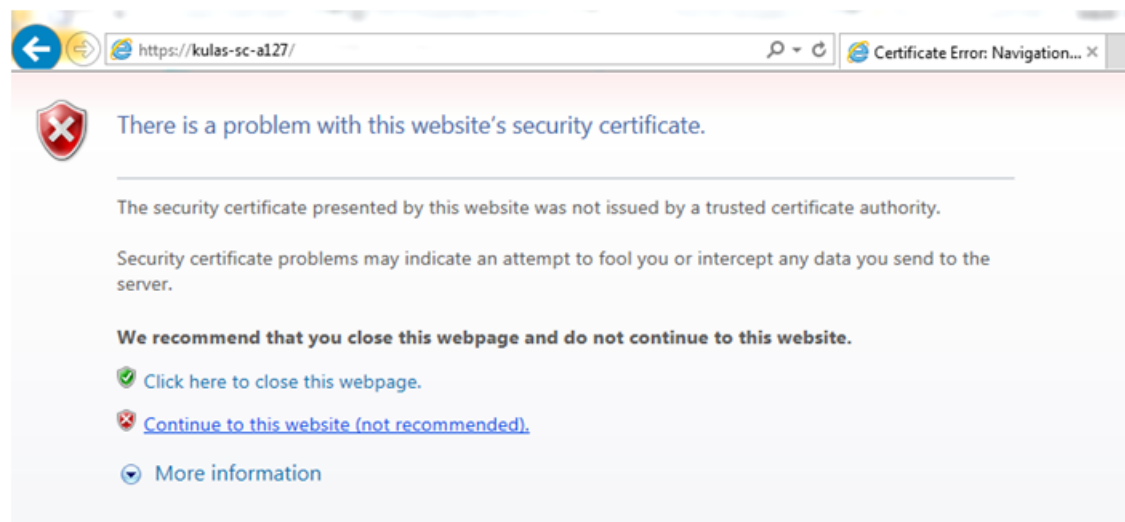
- The Adobe Premiere Pro version 9.2 must be installed on the Windows client.
- The GV STRATUS extension plug-in file must be installed on the Windows client.

1. Launch your Internet browser on the Windows client.
2. Enter the name of the GV STRATUS core server in the URL as follows:

https://{The name of the GV STRATUS core server}/

3. Press **Enter**.

The Certificate Error page displays.



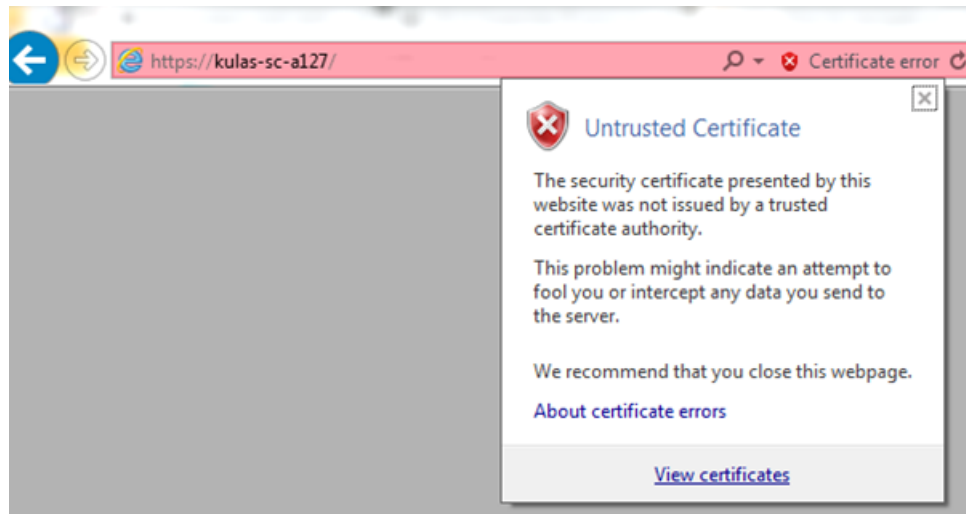
4. Click the **Continue to this website (not recommended)** link.

The IIS page below displays.



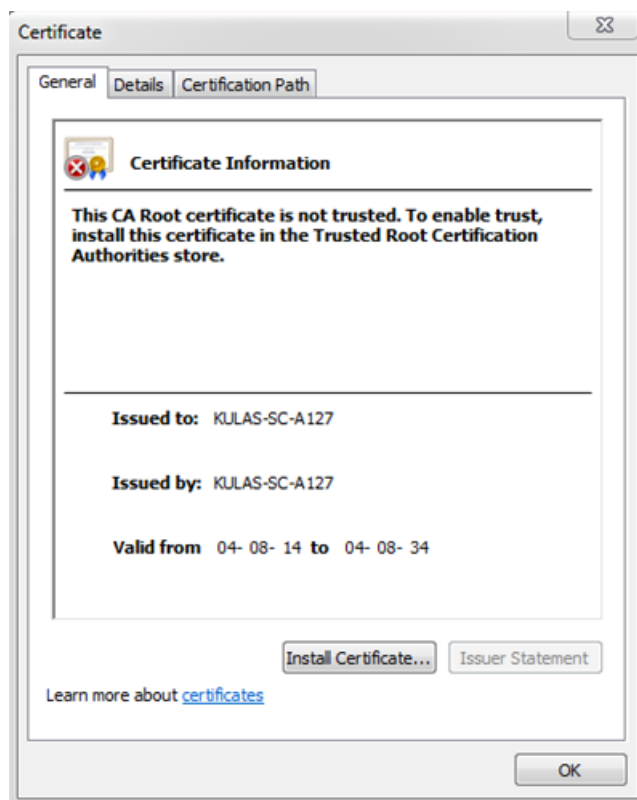
5. Click on the **Certificate error** display on the URL.

The Untrusted Certificate page displays.

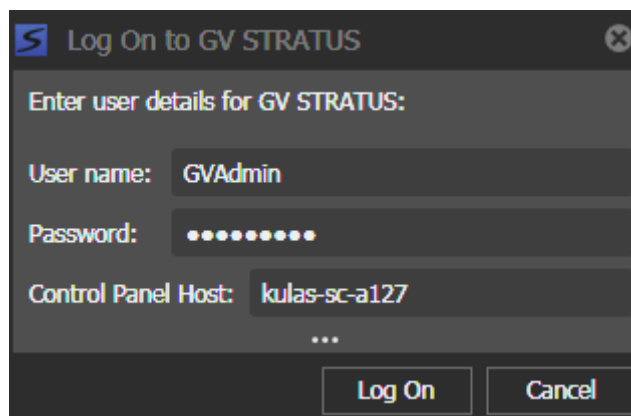


6. Click **View certificates**.

The **Certificate** appears.



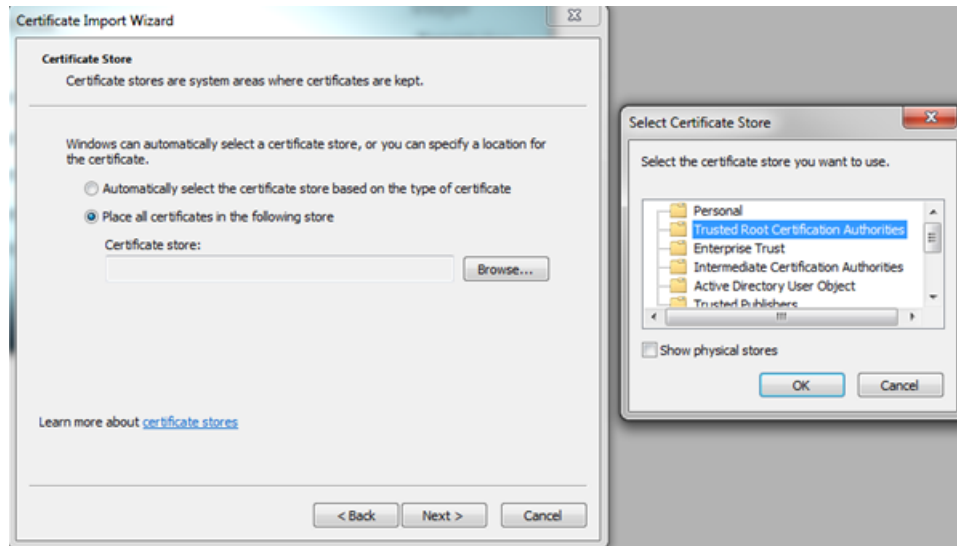
NOTE: Make sure that the certificate is issued to the same Control Panel Host you used to log on to GV STRATUS.



7. Click **Install Certificate**.

The Certificate Import Wizard appears.

8. Click **Next** until the page for Certificate Store appears.



9. Select **Place all certificates in the following store** and click the **Browse** button.

The Select Certificate Store window appears.

10. Select the **Trusted Root Certification Authorities** store and click **OK**.
11. Click **Next** on every page until the end, and click the **Finish** button.

A Security Warning window appears.

12. Click **Yes**.

A pop-up window displays **The import was successful**.

13. Click **OK**.

Installing the self-signed GV STRATUS security certificate on Mac clients

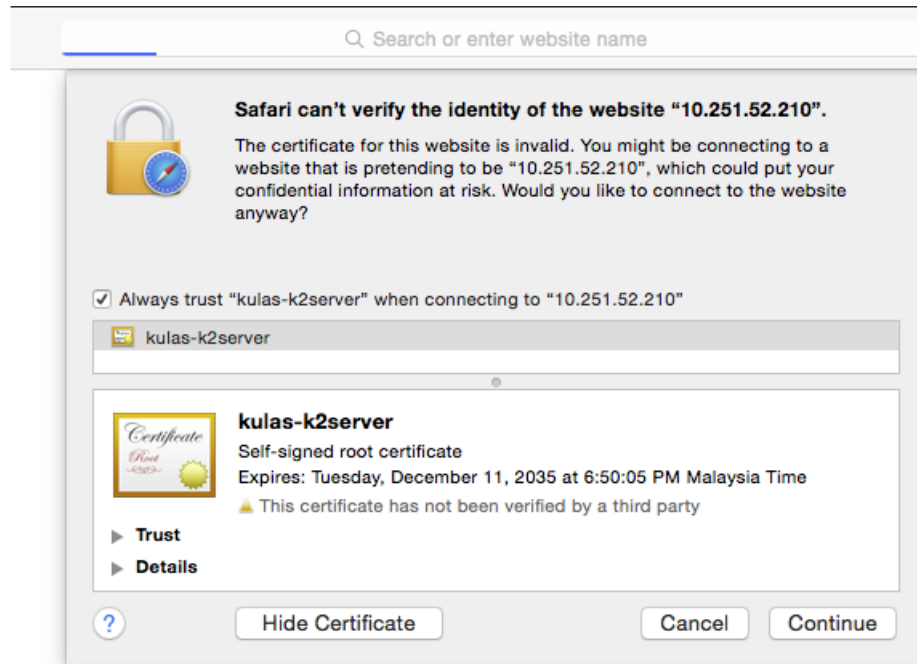
- The Adobe Premiere Pro version 9.2 must be installed on the Mac client.
- The GV STRATUS extension plug-in file must be installed on the Mac client.

1. Launch your Safari Internet browser on the Mac client.
2. Enter the name of the GV STRATUS core server in the URL as follows:

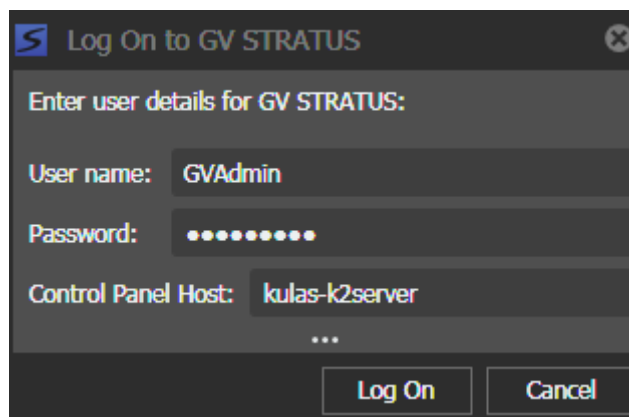
https://{The name of the GV STRATUS core server}/

3. Press **Enter**.

The page below displays.

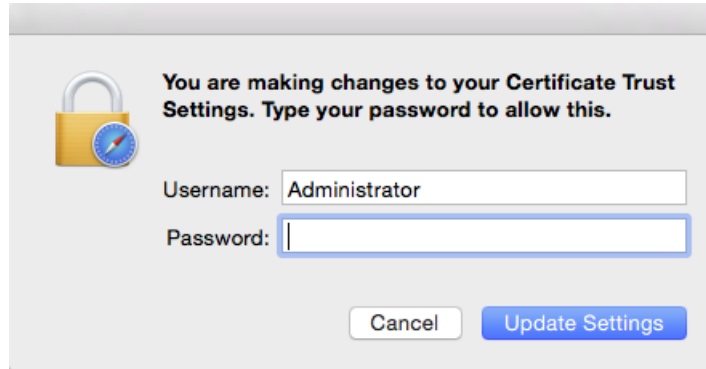


NOTE: Make sure that the certificate is issued to the same Control Panel Host you used to log on to GV STRATUS.



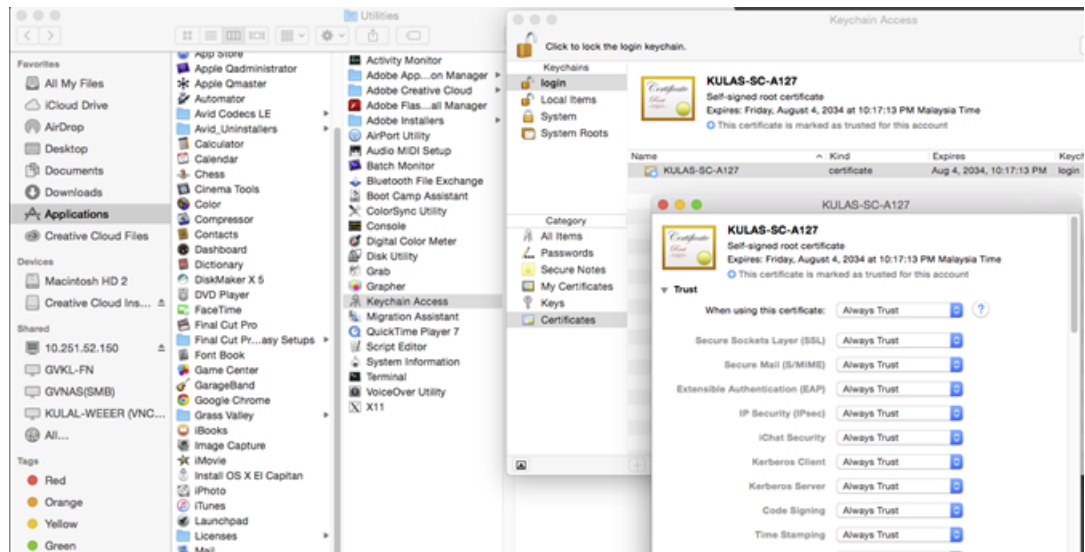
4. Select the **Always trust "{core server name}" when connecting to "{core server IP/name}"** check box and click the **Continue** button.

The log-in page displays.



5. Enter your username and password, and click **Update Settings**.
6. On your Mac client, select **Applications | Keychain Access | login | Certificates** and select the certificate that you just imported.

The certificate property window appears.



7. Select the **Trust** tab, and set all settings to **Always Trust**.
8. Then close the certificate property window.

Upgrading Adobe Premiere Pro CC and GV STRATUS plug-in

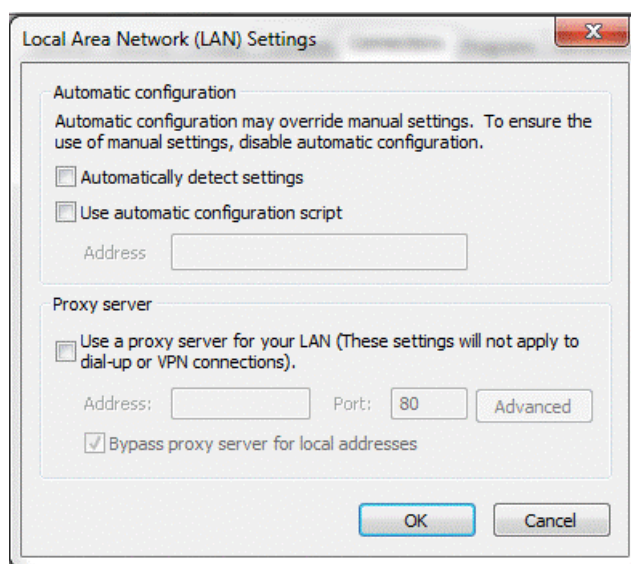
- The GV STRATUS plug-in file must be accessible from your machine.
- The GV STRATUS Xcode Control Engine must be installed and configured on the GV STRATUS Core server.
- K2 storage must be set up with Adobe directories.

- The Adobe Premiere Pro SabreTooth License must be installed on the GV STRATUS Core server.

1. Launch the Adobe Creative Cloud and select **Apps**.
2. Select **Premiere Pro CC (2017)** in the Adobe Creative Cloud.
3. Click the **Update** button.

Premiere Pro CC (2017) installs and displays in the **Apps** section.

4. Launch your Windows Control Panel to select **Internet Options | Connections | LAN Settings** and clear the **Proxy server** setting as below:



If this setting is enabled, the proxy server slows the performance of your Adobe Premiere Pro CC application.

5. To install the GV STRATUS Plug-in, you must get the Extension Manager Command Line tool (ExManCmd) from the [Adobe Exchange webpage](#).
6. Select an installer according to your operating system, download and install the Extension Manager Command Line tool.

Do take note of the install location.

7. Launch the Command Prompt if you are using a Windows client, or the Terminal if you are on a Mac client. Then do the following:

- a) Go to *ExManCmd.exe* file location by entering: `cd <location of ExManCmd.exe>`

- Example for Windows client: `cd C:\Users\Administrator\Desktop\ExManCmd_win\`
- Example for Mac client: `cd Desktop\Contents\MacOS`

- b) To install the latest GV STRATUS plug-in, enter the path to the "GV STRATUS.zxp" file:

- Example for Windows client: `ExManCmd.exe /install "C:\Users\Administrator\Desktop\4.8.0.39\GVSTRATUS_4.8.0.39.zxp"`
- Example for Mac client: `./ExManCmd --install "/Users/Administrator/4.8.0.39/GVSTRATUS_4.8.0.39.zxp"`

8. Launch the Adobe Premiere Pro CC 2017 application.
9. Click **Window | Extensions | GV STRATUS**.

The GV STRATUS plug-in appears in the Adobe® Premiere® Pro CC application.

10. If GV STRATUS security is enforced, ensure that user accounts have permissions on bins, assets, and send destinations that are part of your Adobe® Premiere® Pro CC workflow.

Create Export Presets

The Adobe Premiere editing application uses the Adobe Media Encoder (included with the install of Adobe Premiere) to export files to K2 storage. The exports are based on presets which specify a K2-compatible video codec, resolution, frame rate, field order, and FTP destination. Each preset is built to correspond to a specific GV STRATUS Send Destination.

Presets are created by an admin-level advanced user and saved to shared location accessible by the Adobe Premiere editors. Multiple presets can be created, according to workflow needs and corresponding to GV STRATUS Send Destinations.

1. Create presets according to the following specifications:

- Do not Write XMP ID to Files on Import.
- Do not export metadata.
- Create one preset for each GV STRATUS Send Destination and name the preset with the exact name of the GV STRATUS Send Destination.
- Set format to MXF OP1a.
- Set a K2-compatible video codec. Your selection of a compatible video codec depends on K2 models, options, and licenses that are installed.

For more info, refer to [Video codec description K2 Summit/Solo](#) on page 1140 and [K2 Summit/Solo formats, models, licenses, and hardware support](#).

- Configure FTP settings as follows:
 - User Login: mxfmovie
 - Password: Leave blank
 - Server Name: Host name or IP address of the K2 Media Server with role of K2 FTP Server.
 - Remote Directory: Desired destination bin on K2 system.

2. Save to `v:\AdobeExporters`.

Access K2 storage from workstation

- On a Windows operating system workstation, do the following:
 - a) If the workstation is not connected to the K2 SAN as an iSCSI client, map the `v:` drive through Windows Explorer.
 - b) Select **Reconnect at logon**.

- On a Macintosh operating system workstation, connect to the K2 SAN via CIFS/SMB mount.

Adobe Premiere connectivity to the K2 SAN storage is only supported via CIFS/SMB. Currently, iSCSI and Fiber Channel connections are not supported.

NOTE: K2-FCP-Connect license is not required for this connection.

a) To connect to the K2 SAN media volume, mount the v: drive as follows:

1. Launch the Terminal and log on as **Administrator**.
2. Navigate to **/Volumes:** by entering the following command: `cd ../volumes`
3. Create a new V drive using this command: `mkdir v`
4. Mount the V drive using this command: `mount_smbfs //administrator@name-of-K2SAN/V v/`
5. Enter the administrator password.

The V drive is mounted at `../volumes/v/`

You can check the content of the V volume by entering this command: `Volumes Administrator$ cd v`

Then followed by this command: `v Administrator$ ls`

All folders inside the V volume will be display



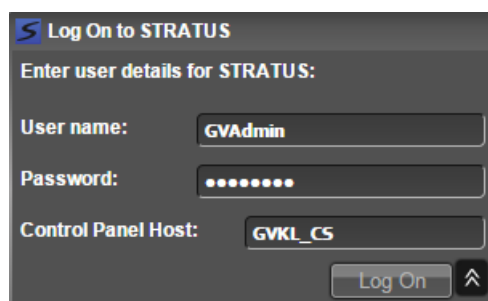
- b) You can also click the mounted V volume icon on the desktop to access the V volume and its content.

Launching the GV STRATUS plug-in

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. Launch the Adobe® Premiere® Pro CC application.
2. Start a new project or choose an existing project.
3. Select **Window | Extensions | GV Stratus**.

A GV STRATUS Log On dialog opens.



4. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

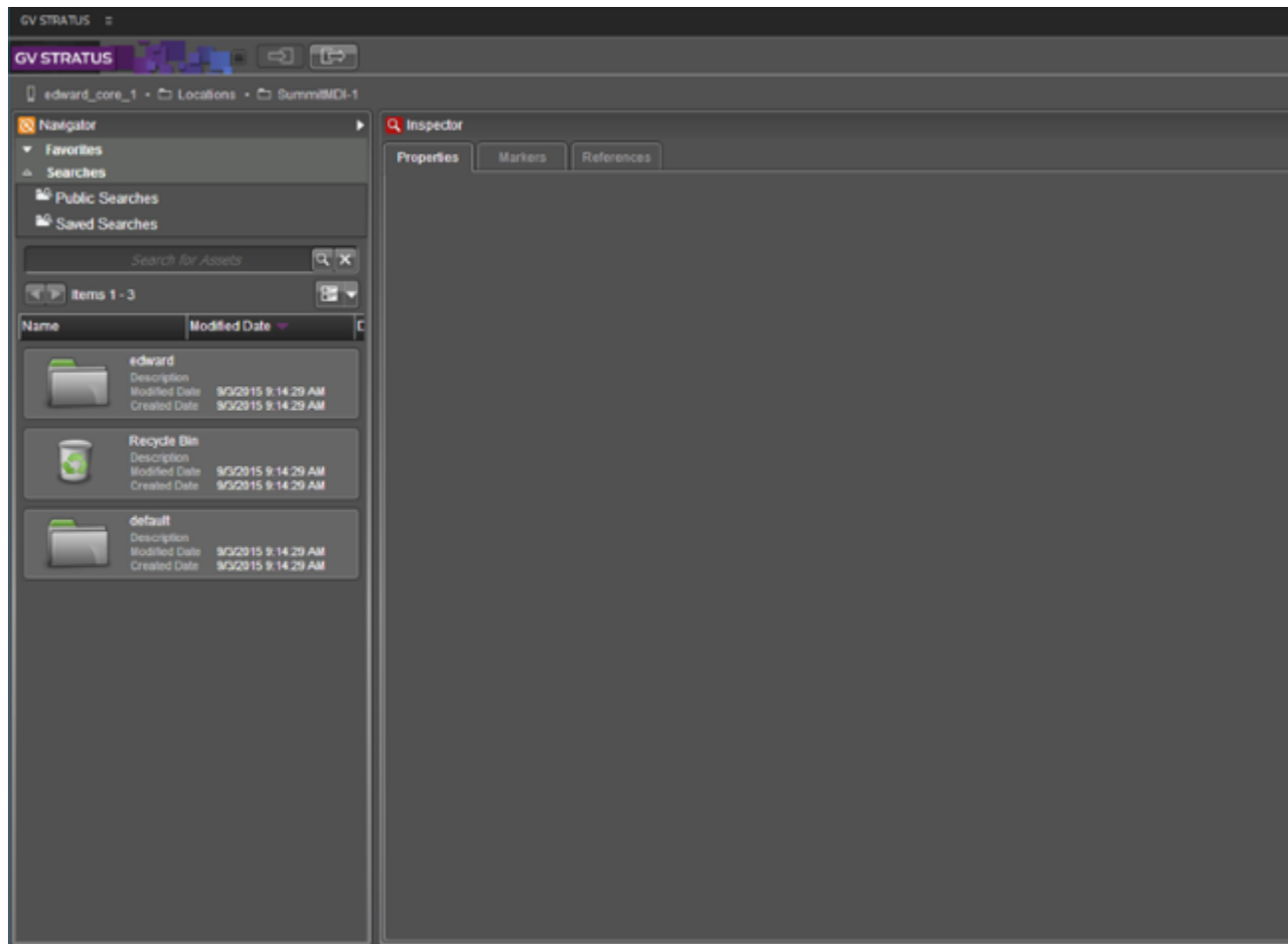
5. Enter your password.

6. For the Control Panel Host, enter the IP address of the GV STRATUS server with the SiteConfig role of GV STRATUS Control Panel Service.

It must correctly point to the GV STRATUS Control Panel Services Host. In most systems this is the main GV STRATUS Core server.

7. Click **Log On**.

The GV STRATUS plug-in opens.

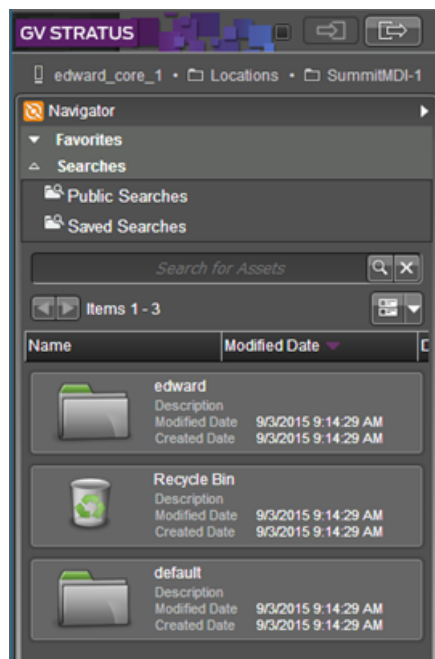


Browsing assets

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets. Bins and assets that do not allow read permissions are not visible.

You can browse and navigate into bins and sub-bins of the GV STRATUS system.

1. Double-click to browse through bins and sub-bins in the Navigator panel.



The breadcrumb trail of your selected bin displays on the toolbar.

2. To navigate up the breadcrumb trail, click a bin on the toolbar.
3. To browse for assets, double-click on bins and sub-bins in the Navigator panel.

Assets display in the Navigator panel. You can sort the display by **Name**, **Created Date**, **Modified Date**, and **Duration**.

Related Topics

[Asset indicators](#) on page 783

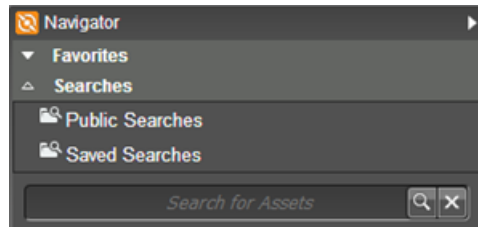
[Identifying asset permissions](#) on page 409

Searching assets using the GV STRATUS plug-in for Adobe Premiere Pro CC

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets. Bins and assets that do not allow read permissions are not visible.

You can search for assets in the GV STRATUS system using the Navigator panel.

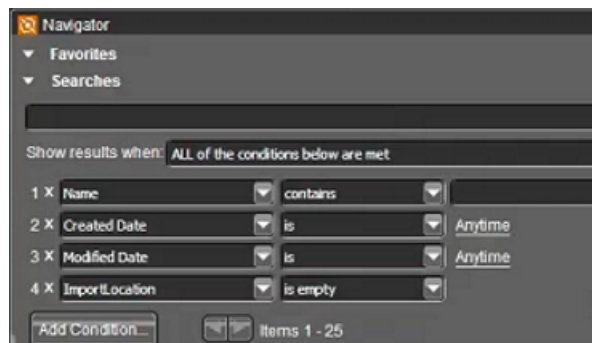
1. For simple searches, in the Search tool of the Navigator, enter the word or a fragment of the word for your search.




For a simple search you can enter text with advanced query syntax. Assets with names, tags, descriptions, comments, marker text, or custom text data that match the search are returned. Refer to related topics for more information.

2. For advanced searches, click the **Advanced Search Toggle** button  next to the Simple Search tool.

The advanced search options opened.



3. Configure an advanced search with the provided options. Refer to related topics for more information.
4. To start the search, click the **Search** button. 
5. To clear the search, click **X**.

Assets matching the search criteria are displayed in the Navigator panel.

However, unlike search results in the main GV STRATUS application; search results within the plug-in do not include these assets:

- Non SAN assets
- Assets in the Lost and Found directory
- EDIUS sequences

Related Topics

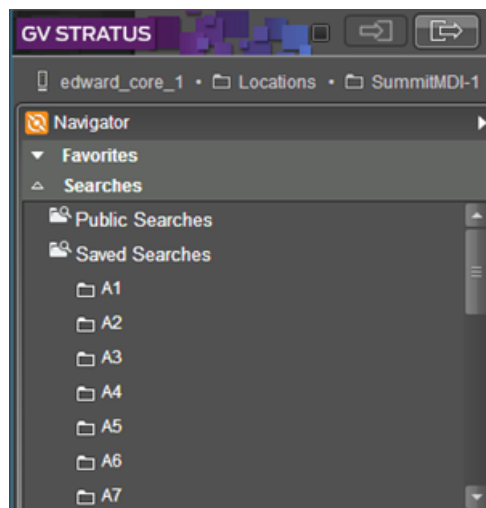
[Search constraints and considerations](#) on page 797

[About advanced query syntax, advanced searches and custom expressions](#) on page 355

Searching assets with the advanced search tool on page 798

Using a saved search in the GV STRATUS plug-in

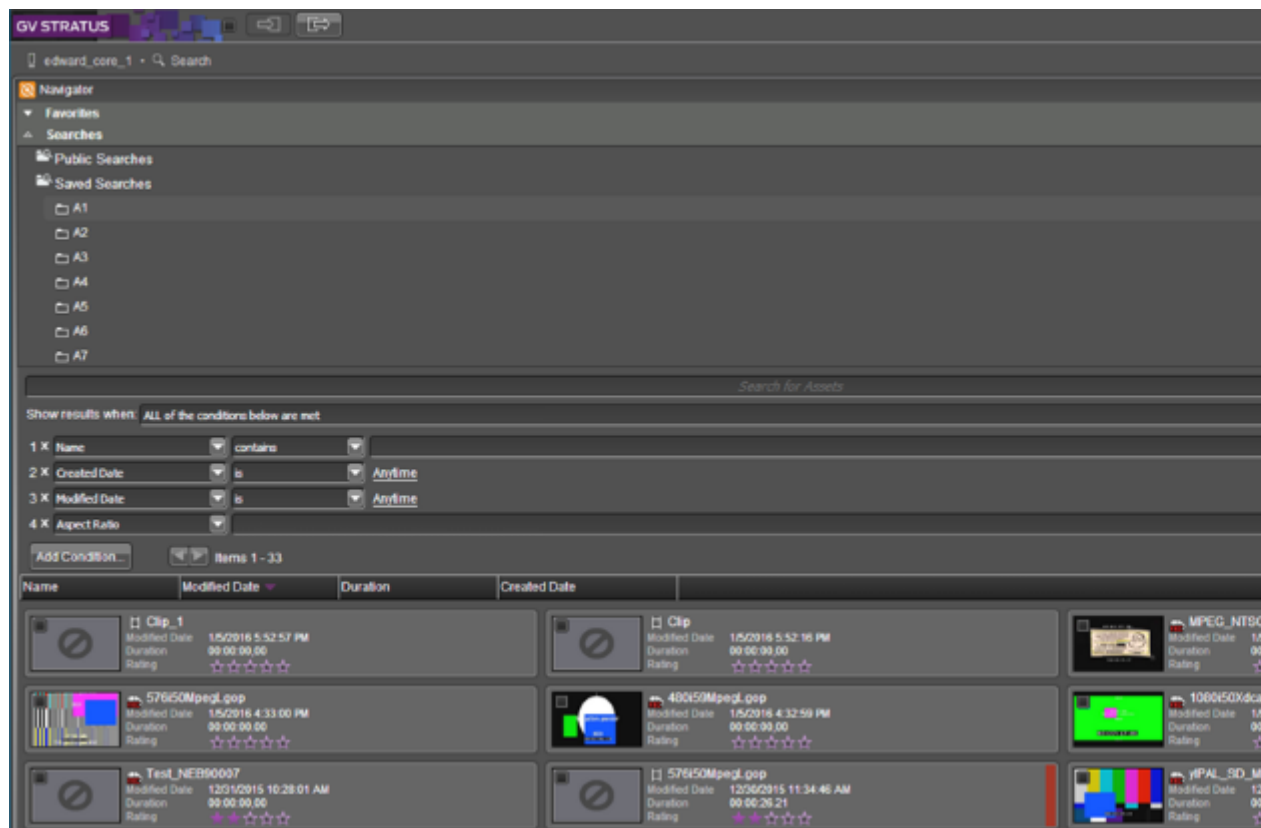
1. In the Navigator panel, expand the **Searches** node.




2. Find saved searches, organized as follows:
 - Public Searches: Searches saved as public by GV STRATUS system users with the role of Media Manager.
 - Saved Searches: Searches saved by users on GV STRATUS clients.

3. Select a saved search.

Search results are automatically displayed in the Navigator panel.



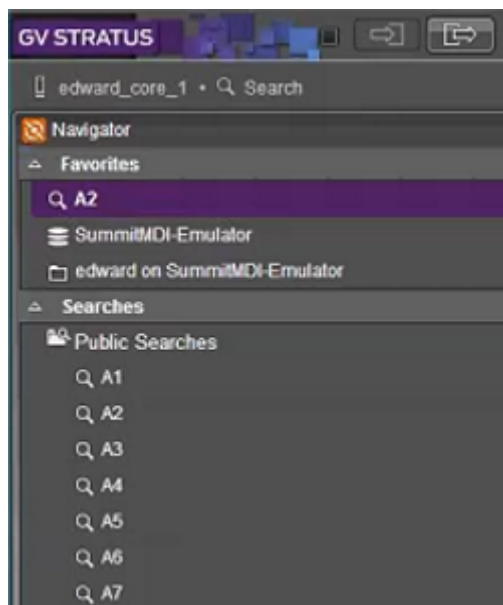
NOTE: *If the name of public searches or saved searches started with non-alphanumeric characters, the order of display for those searches in GV STRATUS plug-in is not the same as displayed in GV STRATUS clients.*

4. To re-run the search, click the **Search** button. 

You can also right-click on a saved search and select **Refresh** to update the search results.

5. To add the saved search into **Favorites** node, right-click on a saved search and select **Add to Favorites**.

The saved search is now accessible under **Favorites** node in the Navigator panel.



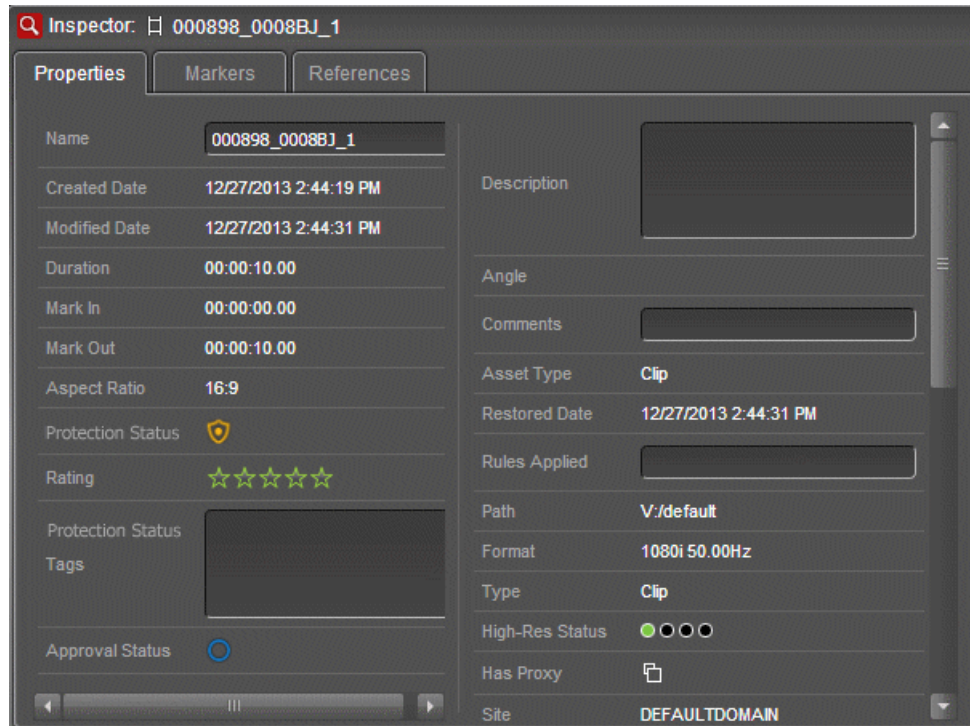
Viewing asset metadata

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.
1. Locate the desired asset by browsing or using the Search tool.

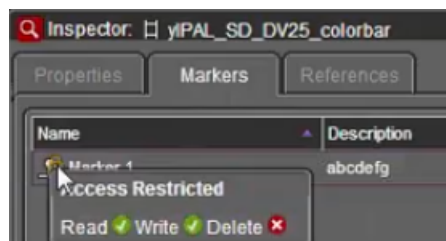
2. Double-click the asset to view its metadata.

The asset metadata is displayed in the **Inspector** panel. You can also view custom metadata of the asset on the Properties tab.

NOTE: *Asset properties and custom metadata will not display for users without read permissions.*

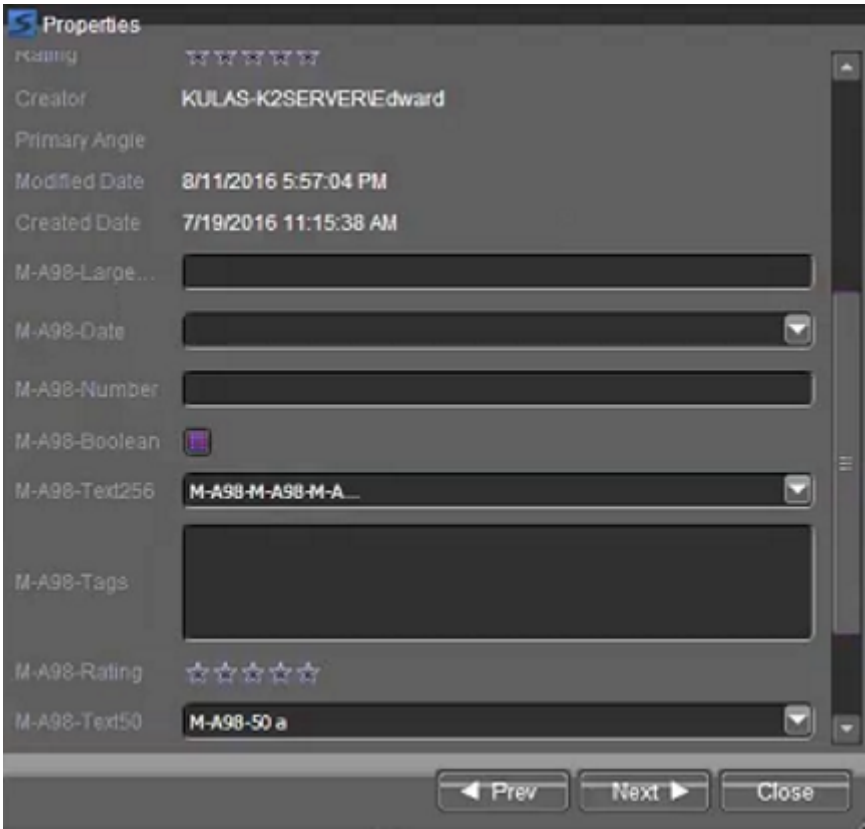


3. Click the **Markers** tab to view markers and keywords of the asset.



Markers and keywords must have appropriate permissions to be created, updated, or deleted. However, those permissions are only accessible via the main GV STRATUS application.

- 4. Double-click the marker to view its properties.



If custom metadata are assigned to markers and keywords in the GV STRATUS Control Panel, they can be viewed on the **Properties** window.

- 5. Click **Prev** or **Next** to view properties of other markers, and click **Close** to close the Properties window.
- 6. Click the **References** tab to view the list of related assets.

Properties Markers References			
Name	Created Date	Modified Date	Duration
two	2/23/2016 9:41:52 AM	3/11/2016 3:50:26 PM	00:00:10.00

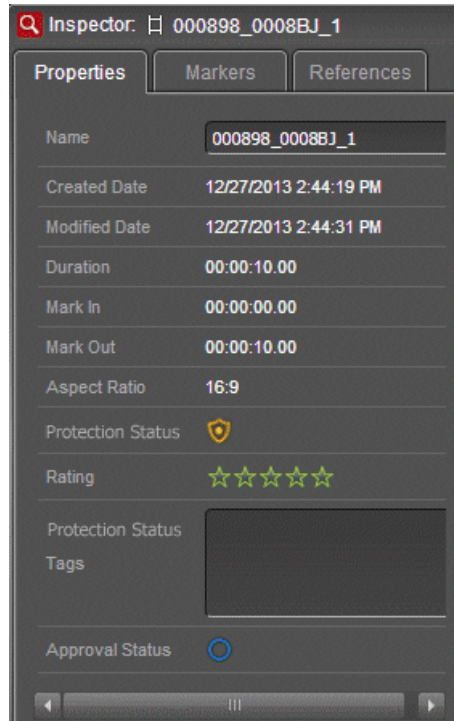
Modifying asset metadata

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, metadata, markers, keywords, and segments.

1. Double-click the asset.

The asset properties display in the Inspector panel.

NOTE: *If write permissions are denied, your metadata fields will be disabled.*



2. Key-in and modify the name, description, and tags of the asset.
3. Click the appropriate icon to modify the protection status, approval status, and rating of the asset.
4. On the Markers tab, you can also modify marker and keyword properties if you have the Update Marker permission.

Marker permissions must be set to **Allow** for markers and keywords to be created, updated, and deleted.

Asset metadata is updated according to your changes.

Importing GV STRATUS assets

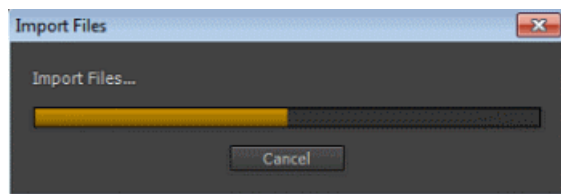
You can import GV STRATUS assets into your Adobe Premiere project to consolidate your editing operation.

1. In the Navigator panel, select the asset or assets you are importing.

You can also select the **Select all assets in Navigator** checkbox on the toolbar if you want to import all assets in the bin.

2. Click the **Add selected asset into active bin** button  to import the asset(s).


A dialog box opens to show the progress of the import.



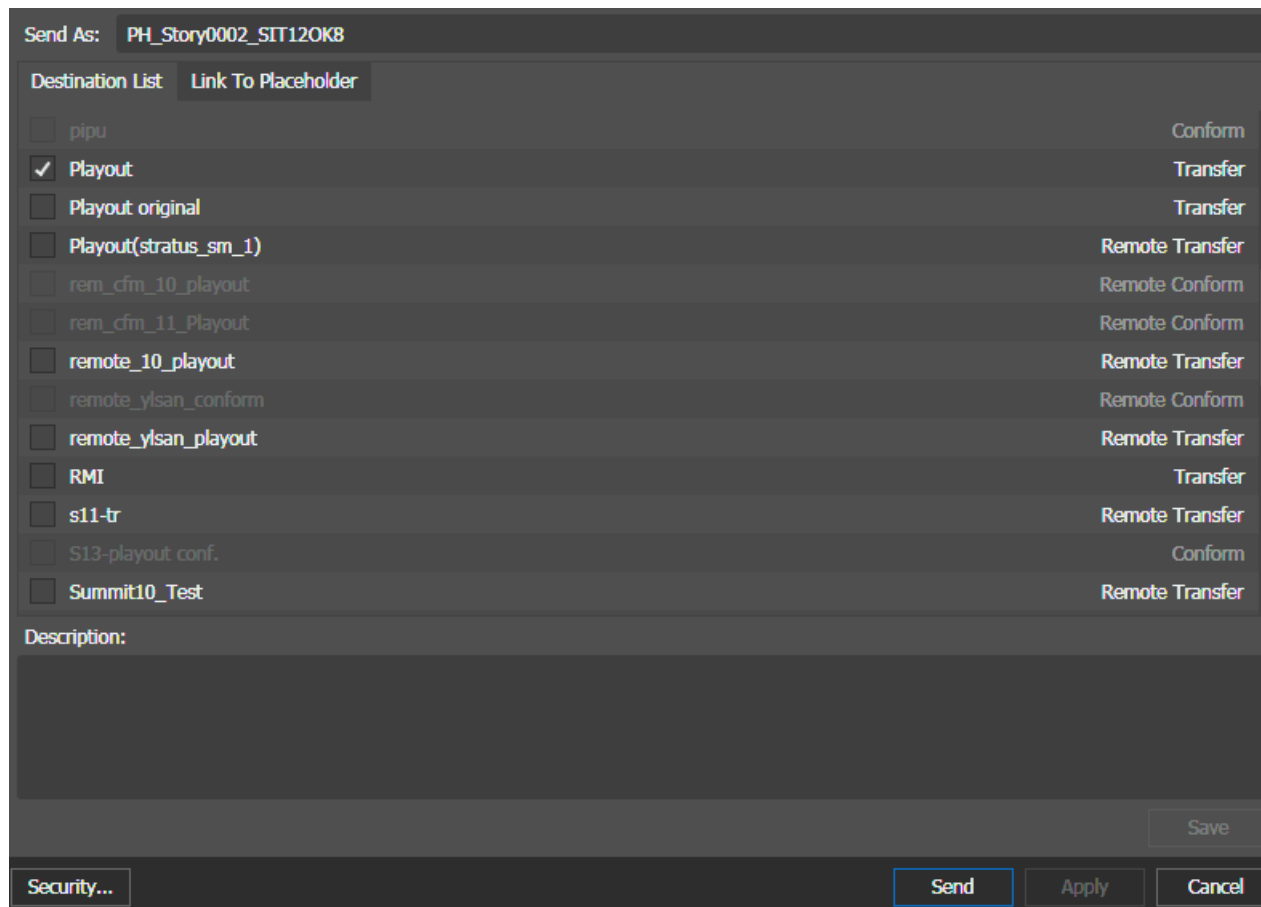
Clips and sub-clips appear in the active project bin. Sequences, and all clips referenced by the sequences also appear in the active project bin.

3. Double-click on a clip or sub-clip in the Adobe Premiere bin to load that clip or sub-clip into the source viewer.
4. Double-click on a sequence in the Adobe Premiere bin to open that sequence in the timeline.

Exporting Adobe Premiere sequences to GV STRATUS

- If GV STRATUS security is enforced, your credentials must give you write permissions on destinations. Destinations with inadequate permissions are disabled.
1. Load a sequence into the timeline area of the Adobe Premiere application.
 2. On the GV STRATUS panel, click the **Export Active Timeline** button. 

3. The **Send Destinations** dialog box opens.



4. Enter a name in the **Send As** field.
5. Select the desired Send Destinations.
6. If configured for a Newsroom Computer System, you can also link the asset to a local or remote placeholder.
 - If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
 - In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.
- a) On the **Link To Placeholder** tab, select a placeholder.
 If a remote placeholder, expand the remote site node.
 If already linked to a placeholder, you can select a different placeholder.
- b) If desired, in the **Placeholder Description** field, enter text and click **Save**.
 The placeholder description is updated. It is not necessary to click **Send** to update the placeholder description.
7. Click **Send**.

The sequence is successfully sent to K2 storage via FTP.

If you're using Adobe Premiere with a Windows operating system, the Adobe Media Encoder shows a "Failed" status of the FTP transfer. This is a known file renaming problem and does not affect the exported asset. You can easily check in K2 storage to ensure the asset is successfully transferred.

The "Failed" status does not occur if you're using Adobe Premiere with Mac operating system.

NOTE: The Adobe Media Encoder does not delete the local asset after an export with a "Failed" status. If sending to multiple destinations when the asset exists locally with the same name, a suffix will be appended to the asset name at the new destination, and the next available default suffix will be appended at the next destination. Therefore, it is not recommended to send to multiple destinations via this workflow.

If sending to multiple destinations is required, choose the main destination to send from Adobe Premiere, and set up a GV STRATUS workflow rule that then transfers media from the main destination to subsequent destinations (e.g. to a main and then back up K2 system).

Related Topics

[Adding an export rule](#) on page 490

Using the GV STRATUS application with Avid

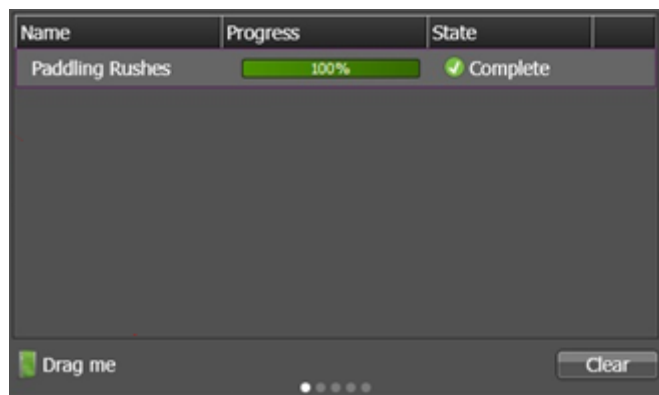
You edit GV STRATUS assets in the Avid Media Composer® application using a transfer workflow or using an edit-in-place workflow.

Opening a GV STRATUS asset in Avid using the transfer workflow

- The MEWS system must be installed and operational.
- The MEWS system must be configured in GV STRATUS Control Panel Engines settings.
- A Send Destination for each Avid Media Composer® workstation must be configured in GV STRATUS Control Panel.
- An import rule for each Avid Media Composer® workstation must be configured in GV STRATUS Control Panel.

- The GV STRATUS application and the Avid Media Composer® application must be running on the same client PC.
1. Select one or more clips or subclips in a GV STRATUS Asset List, right-click, select **Send to Avid**, and select the location for the Avid application running on the local PC from one of the following:
 - Avid ISIS
 - Avid MC
 - Avid Interplay

You can see the progress of the asset transfer to the local PC.



For assets sent to Avid Media Composer or ISIS (without Interplay), a **Drag me** button appears.

For assets sent to Avid Interplay, there is no **Drag me** button display, as the assets are automatically transferred into the Interplay system.

2. When progress reports **100%**, select the **Drag me** icon in the **Sending to Avid** dialog box.



3. Drag and drop the icon to the Media Bin in the Avid application.

The asset is available in the Avid Bin for editing in the Avid application.

4. For assets sent to Avid Interplay, navigate through to the relevant folder and open the assets in the Media Composer using the Interplay Window.

Assets checked-in to Interplay will additionally check their GV STRATUS metadata as pre-configured in the GV STRATUS Control Panel.

Related Topics

[Setting up Avid workstations with GV STRATUS](#) on page 540

Opening a GV STRATUS asset in Avid using the edit-in-place workflow

- The GV AMA plug-ins must be correctly installed and configured.
 - The K2 storage volume must be mounted.
1. To manually link to files, do the following:
 - a) Open and select the bin in which you want the master clip or sequence to appear.
 - b) Select **FILE | AMA LINK**, navigate to the filepath, and select the file or files for linking.
 - c) Choose the type of linking:
 - XML files: Creates a master clip or sequence which references all the media files and metadata as described by the XML.
 - IDX files: Creates master clips with just one track. Timecode and data files are not supported.

The linked files appear as master clips or sequences.

2. To manually link to volumes (folders), do the following:
 - a) Select **FILE | LINK TO AMA VOLUMES** and file type as below:
 - Summit Media Volume Plug-in (MVP) (Folder) for volume linking.
 - Summit (*.XML *.IDX) for link to media files.
 - b) Navigate to the required folder, such as `V:\media\default`.
A new bin is created and populated with all the assets found in the folder. The linked asset appears as master clips or sequences.
 - c) To limit the number of assets in each folder, use **Link to files** and select only the files needed.
When you link to volumes, only the content within a folder can be linked. All the assets within the selected folder are enumerated and linked. Master clips or sequences are created using all the media files and metadata as described by each of the assets XML found in the folder.

Related Topics

[Setting up Avid workstations with GV STRATUS](#) on page 540

Export Avid clips or sequences to GV STRATUS

- The MEWS system must be installed and operational.
- The MEWS system must be configured in GV STRATUS Control Panel Engines settings.
- A Send Destination for each Avid Media Composer® workstation must be configured in GV STRATUS Control Panel.
- An import rule for each Avid Media Composer® workstation must be configured in GV STRATUS Control Panel.
- The GV STRATUS application and the Avid Media Composer® application must be running on the same client PC.

1. In the Avid application, right-click on the clip or sequence in the Avid Bin and select **Send to | GV STRATUS**.

The **Send To** dialog box opens.

2. Configure as follows:

- a) For **Filename**, enter a new name for the exported file if desired.
- b) For **Destination**, click **Set** and browse to *C:\Avid MediaFiles\Export*.
- c) Leave other settings at default values.
- d) Click **OK**.

The MEWS services transcode the clip or sequence for compatibility with GV STRATUS and places the resulting files in the destination folder. The GV STRATUS rule detects the files in the destination folder and imports them into the GV STRATUS system.

Related Topics

[Setting up Avid workstations with GV STRATUS](#) on page 540

Avid/MEWS considerations

- GV STRATUS supports operation with multiple MEWS engines running on separate servers. Each MEWS engine supports up to 3 concurrent transcode jobs at a time.
- To ensure the MEWS Service machine(s) are correctly configured and the required license exists, you should check whether the resources provided per MEWS Service are registered in the GV STRATUS Control Panel via **Core | Resource Management | Resource Monitor**. The status of the MEWS license and MEWS Server machine should be **Online** on the Resource Monitor. Below are corresponding display of both MEWS licenses in SabreTooth and the Resource Monitor:

SabreTooth MEWS Licenses	SubResource Provider in Resource Monitor
STRATUS-XCODECONTROLMEWSEXT	MEWS
STRATUS-XCODECONTROLMEWS	MEWS-ELITE

- When editing HD material you must use an HD project. When editing SD material you must use an SD project.
- The GV STRATUS rule that imports an Avid sequence must use a transcode format that matches the Avid Media Composer Project window Format settings. If transcoding, an HD project must use an HD transcode format and an SD project must use an SD transcode format. If not transcoding, select **As Source**.
- The Avid sequence can be of mixed codecs but they must be the same definition/standard.

- Assets transferred from GV STRATUS to Avid via MEWS retain GV STRATUS markers and keywords.
 - In Avid Media Composer, a GV STRATUS marker displays a red indicator and a GV STRATUS keyword displays a yellow indicator.
 - When transferred as AMT-Atom container, GV STRATUS Marker and Keyword names will be replaced by a valid Avid user name so that they can be imported into Avid. The original names will be added to the Avid *Comment field* together with the GV STRATUS description metadata, semicolon separated. The user name is extracted from the Location configuration in GV STRATUS Control Panel in the *Interplay Folder*.
 - Markers are only transferred if they exist in GV STRATUS before the transfer was initiated.
 - When transferring a still recording asset, markers will not display in the Avid system. Markers will only display if the clip is loaded into the Avid Media Composer after recording is stopped and the transfer is complete.
 - If the asset is already in the Avid Media Composer project bin, a refresh is required. In the context menu, select **Interplay | Update from Interplay** to refresh.
- Asset metadata are automatically transferred into Avid if configured in the **Metadata Export** tab of GV STRATUS Control Panel. Metadata fields can be selected under the Avid column, and automatically transferred when assets are sent from GV STRATUS.
- For a standalone Avid Media Composer workstation, configure Media Composer as follows:
 - In Media Creation settings, on every tab set **Video Drive** and **Audio Drive** to the **C:** drive.
 - In Export Settings, set **Export As** to **AAF** and for both **Video/Data Details** and **Audio Details**, do the following:
 - Set **Export Method** to **Consolidate Media**.
 - Set all Media Destinations to **Media Drive** and select **Use Media Creation Settings**.

- For a system with AVID ISIS, do the following:
 - Install Avid ISIS Client Manager on the following
 - The machine where the XCode Control Engine is running
 - The machine where MEWS is running
 - Every Avid Media Composer workstation
 - Configure Avid ISIS Client Manager as follows:
 - Map a drive, such as drive z:, to the ISIS share.
 - Configure the user to the internal system account, which by default is GVAdmin
 - For an AVID ISIS Media Composer workstation, configure Media Composer as follows:
 - In Media Creation settings, on every tab set **Video Drive** and **Audio Drive** to the drive letter, such as drive z:, mapped to ISIS.
 - In Export Settings, set **Export As** to **AAF** and for both **Video/Data Details** and **Audio Details**, do the following:
 - Set **Export As** to **AAF**.
 - Set **Export Method** to **Link to (Don't Export) Media**.
 - Set all Media Destinations to **Media Drive**.
- Configure GV STRATUS as follows:
 - The GV STRATUS Xcode Control Engine Service and the MEWS Service must be installed to use the internal system account, which by default is GVAdmin.
 - In GV STRATUS Control Panel Locations Configuration settings, **Location Path** must point to the \MXF\ subfolder on Avid ISIS and **Host Name** must point to the hostname of the Avid Media Composer workstation.
 - Create an Import Rule Watchfolder, which is a share that can be accessed by the Rules Engine and the Avid Media Composer workstations.
 - Create an Import Rule as follows:
 - Source: The Import Rule Watchfolder
 - Destination: K2 folder
 - Transcode Format: a MEWS format that matches the Avid project.
 - Avid Server Type: Isis
 - Avid Media Host: The Isis server name
 - Set Rule Conditions to trigger on .aaf file extension

Refer to Avid Media Composer product documentation for more information.

Related Topics

[SabreTooth MEWS license process](#) on page 544

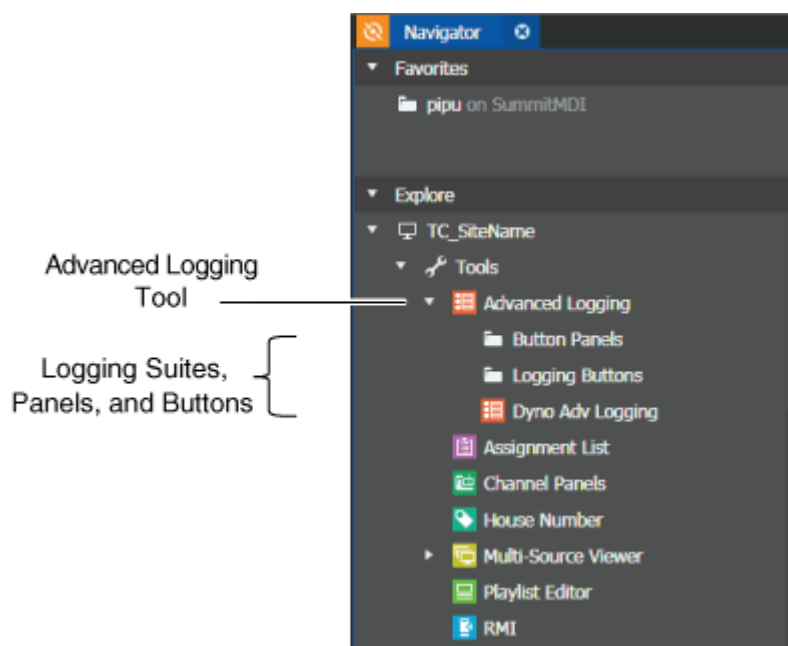
[Resource Management settings](#) on page 296

Logging assets

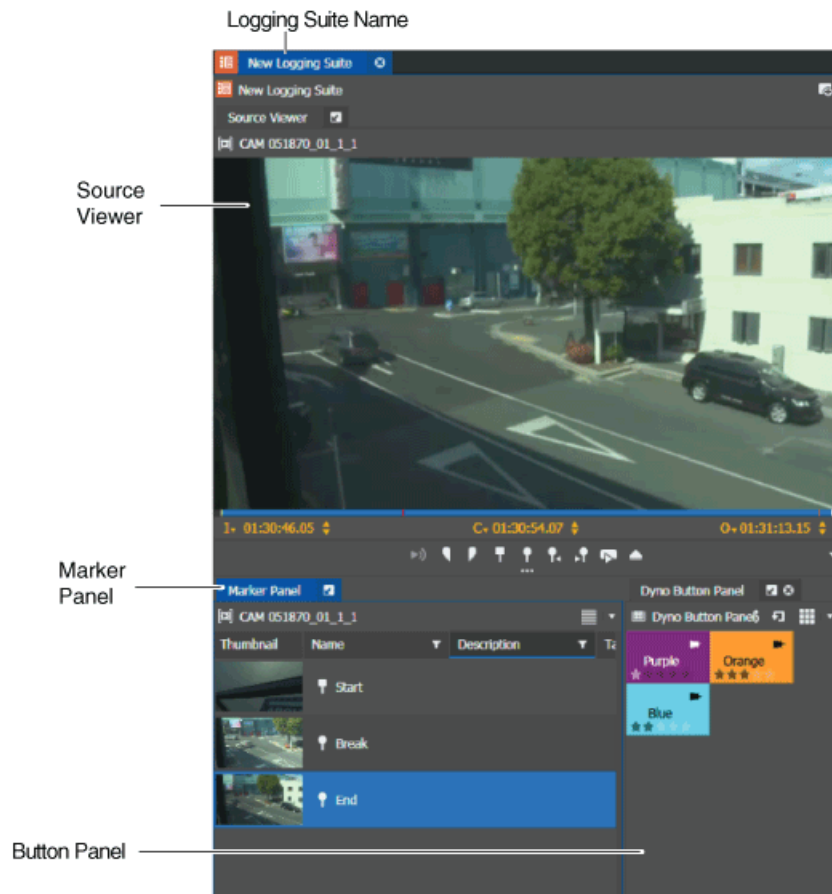
The Advanced Logging tool

The Advanced Logging tool provides users with a tool to quickly and efficiently apply metadata and marker values to assets in GV STRATUS application, via a set of pre-defined Logging buttons and Panels. It is an ideal tool for Sports logging or any environment where large amounts of descriptive metadata needs to be quickly applied to an asset. The markers created by the logging process greatly improve the ability to easily find and retrieve assets at a later date through a GV STRATUS Simple or Advanced Search.


The Advanced Logging tool allows you to create and assign various Logging Suites for asset logging. The Advanced Logging tool may include several Logging Suites for different logging purposes.



The Logging Suite displays as a composite panel in the GV STRATUS application. The Logging Suite includes the Source Viewer, one or more Button Panels (each of which contains buttons which create markers during the logging operation), and the Marker Panel.



Logging Suite features are as follows:

- Source Viewer — Loads assets to be previewed.
- Button Panel — Loads a customizable set of buttons for logging.
- Marker Panel — Displays all keywords and markers that have been created.
-  **Add Button Panel:** Adds a new or existing Button Panel to the Logging Suite.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Related Topics

[The Source Viewer](#) on page 932

[Viewer buttons](#) on page 933

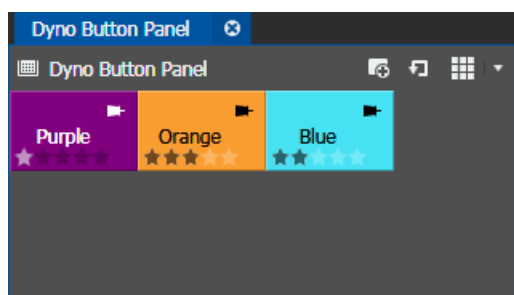
[Using the Audio Overlay](#) on page 934

[J, K, L keyboard shortcuts for transport control](#) on page 937

The Button Panel

The Button Panel allows you to create and load buttons for logging. In the GV STRATUS application, you can access the Button Panel when you launch the Logging Suite from the Navigator.

Each Logging suite may contain one or more Button Panels, this allows multiple panels to be created to manage buttons / marker values for different categories of metadata. For example, in Sports logging, one panel may contain the names of players, another containing ‘actions’ that occur; additional panels may cater for ‘venues’, ‘tournament information’ etc.






Button Panel features are as follows:

- **Toolbar** — Consists of controls to manage logging buttons for the Button Panel.
- **Button list** — Displays all logging buttons that have been created.

Button Panel buttons

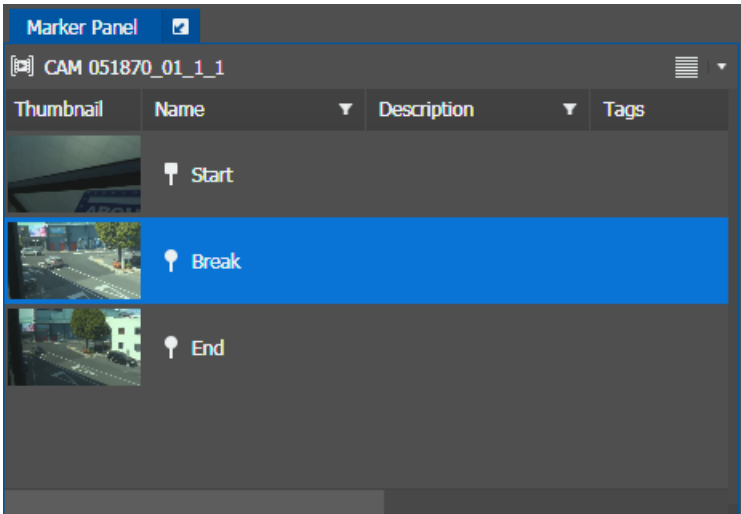
These buttons located on the Button Panel let you perform various functions.

-  **Add Button:** Adds a new or existing button to the Button Panel.
-  **Reset Button State:** Resets the pressed button state to unpressed position.
-  **View Mode:** Controls the display and size of the items in a list or panel.

Button size can be selected between 3 pre-defined sizes (in a grid layout) from the **View Mode** control, or if **Manual** is selected the button size and placing can be customized by the user.

The Marker Panel

The Marker Panel allows you to view keywords and markers that have been assigned to clips. In the GV STRATUS application, you can access Marker Panel when you launch the Logging Suite from the Navigator.



The Marker Panel feature is as follows:

- Panel List — Displays all keywords and markers that have been created for the asset loaded into the Source Viewer within the Advanced Logging tool.

NOTE: *A marker can contain multiple values if several buttons were pressed for a single logging event within the Advanced Logging tool.*

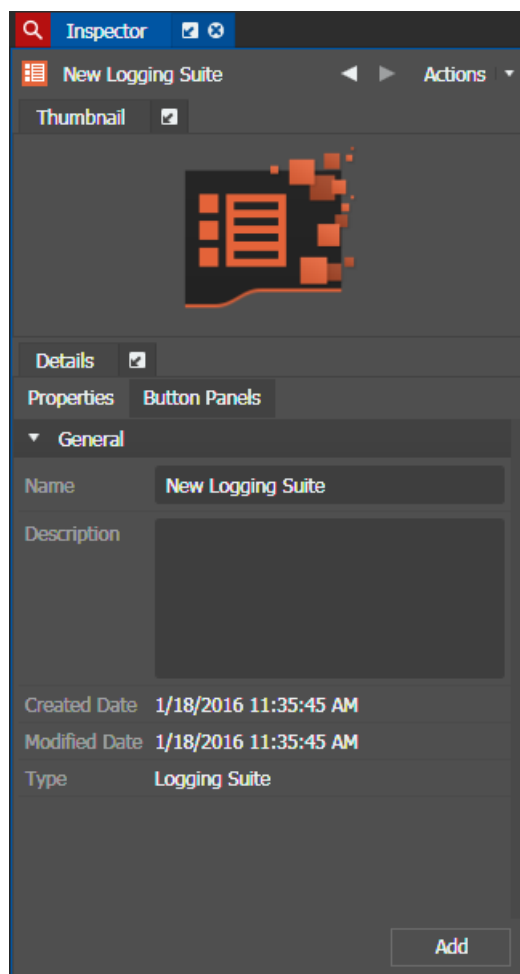
Standard Asset List features such as filter list, sort list, and customization of the **View Mode** are available in the Marker Panel.

Adding a Logging Suite

You can create and add Logging Suites to accommodate different kinds of logging in your operation.

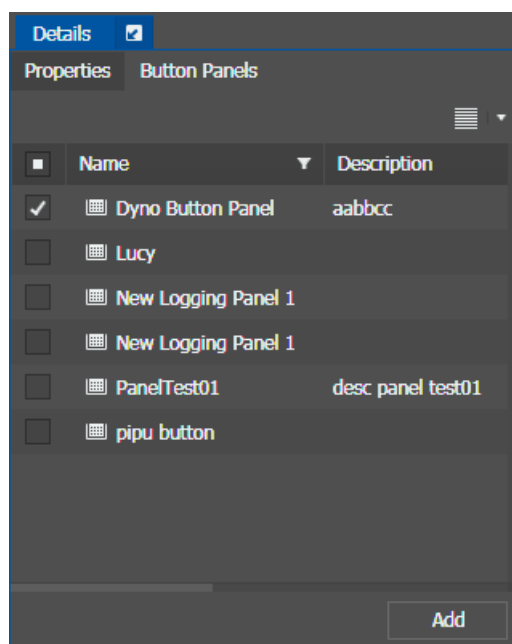
1. Right-click on **Advanced Logging** from the **Tools** node in the Navigator and select **New | Logging Suite**.

The Inspector loads the configuration for a new Logging Suite.



2. Enter the **Name** and **Description** of the Logging Suite on the **Properties** tab.

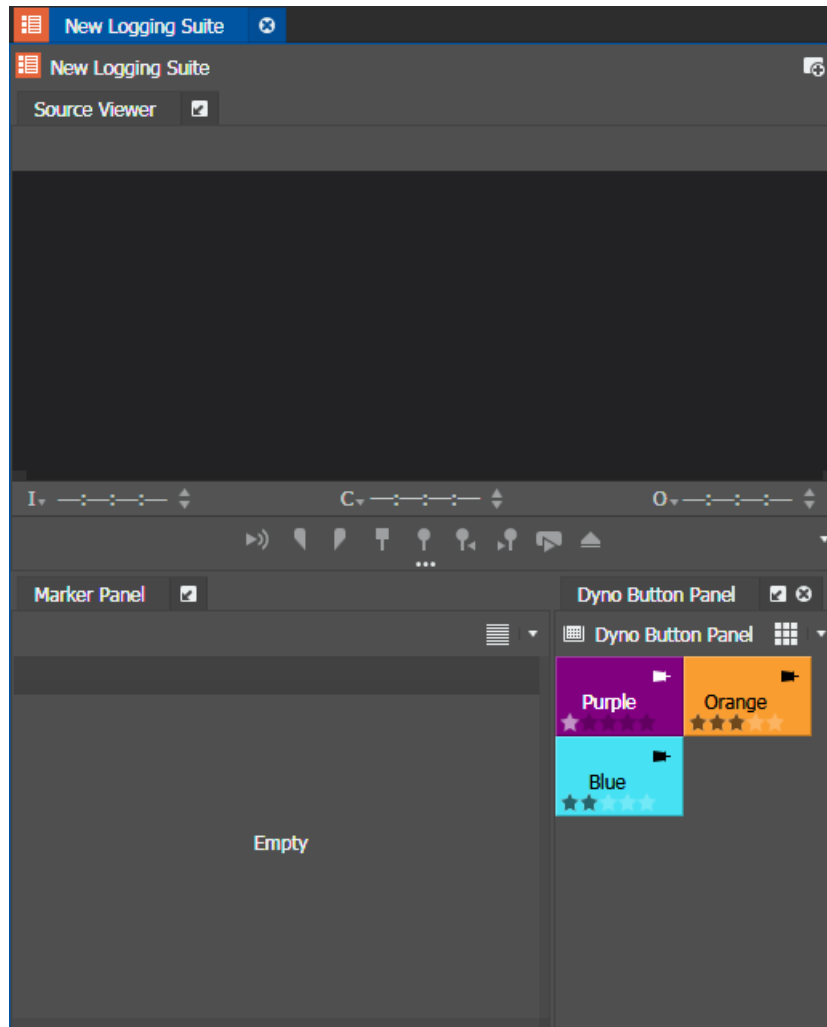
3. On the **Button Panels** tab, select Button Panel(s) for the Logging Suite.



You can customize a new Button Panel later, if you don't want to use existing Button Panels.

4. Click **Add** in the Inspector panel if you want to open the new Logging Suite that you just created.

The Source Viewer, Marker Panel, and selected Button Panels appear in the Logging Suite. An untitled Button Panel appears if no Button Panel is selected earlier.




The Logging Suite also appears under **Advanced Logging** tool in the Navigator.

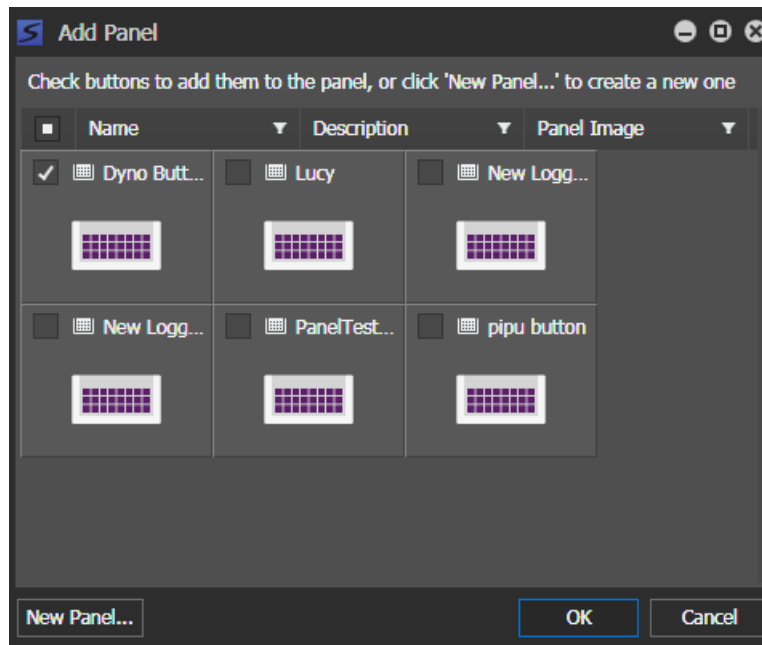
You can drag the **Logging Suite** icon from the Logging Suite into the Inspector or you can double-click the Logging Suite name in the Navigator if you want to change properties of the Logging Suite later.

Adding Button Panels

You can create and add several Button Panels to customize your Logging Tool.

1. Within the Logging Suite panel, click the **Add Button Panel** button. 

The Add Panel dialog opens.

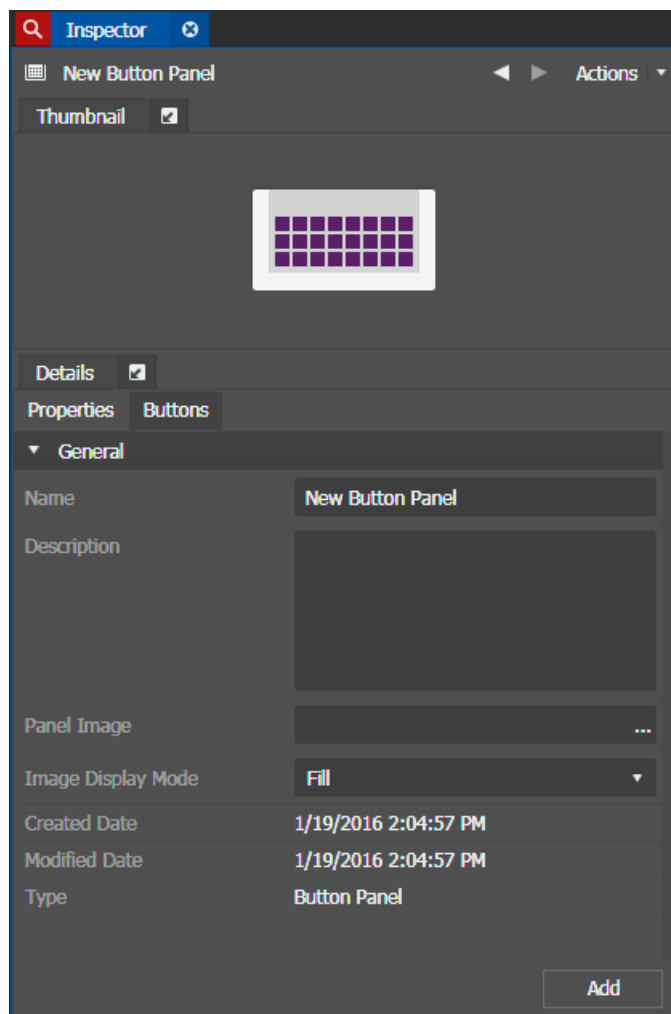


2. To choose from existing Button Panels, select the checkbox of the Button Panel to add it to the Logging Suite.

Then, click **OK**.

3. To create a new Button Panel, click **New Panel**.

The Inspector loads the configuration page for a new Button Panel.



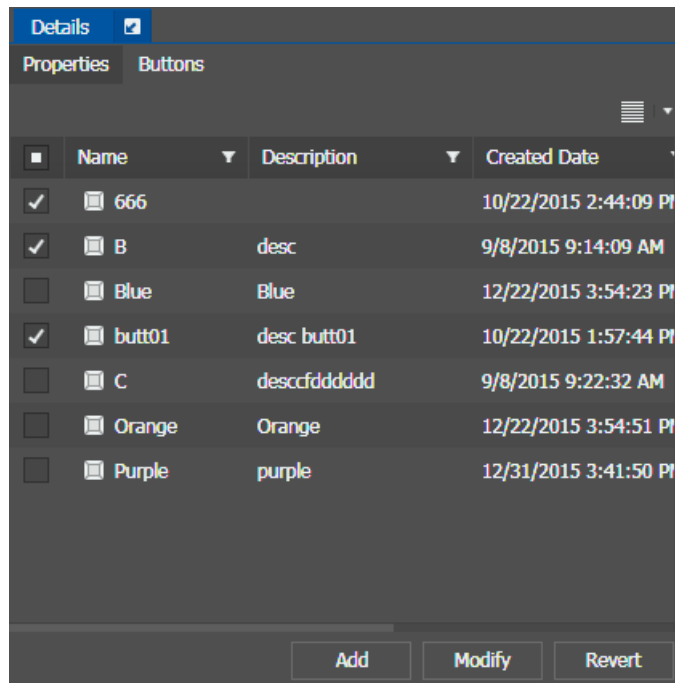
4. Enter the **Name** and **Description** of the new Button Panel.

You can also browse and select an image to be the **Panel Image** of the Button Panel.

The **Image Display Mode** can be selected as follows:

- **Fill**: The image fills the entire Button Panel.
- **Maintain Aspect Ratio**: The image maintains its aspect ratio in the Button Panel.
- **Original Size**: The image displays according to its original size in the Button Panel.
- **Manual**: The image size can be resized manually in the Button Panel.

- Click on the **Buttons** tab, and select logging buttons for the panel by checking the box next to each customized button.



You can also create new buttons later, if you don't want to use existing logging buttons.

- Click **Add** to add the Button Panel to the Logging Suite.

NOTE: *If you received a Button Panel via the Send Message tool, the Button Panel is saved automatically in your Advanced Logging tool. If the Button Panel already exists, it is automatically saved and updated according to the received Button Panel.*

- Repeat previous steps if you want to create multiple Button Panels.

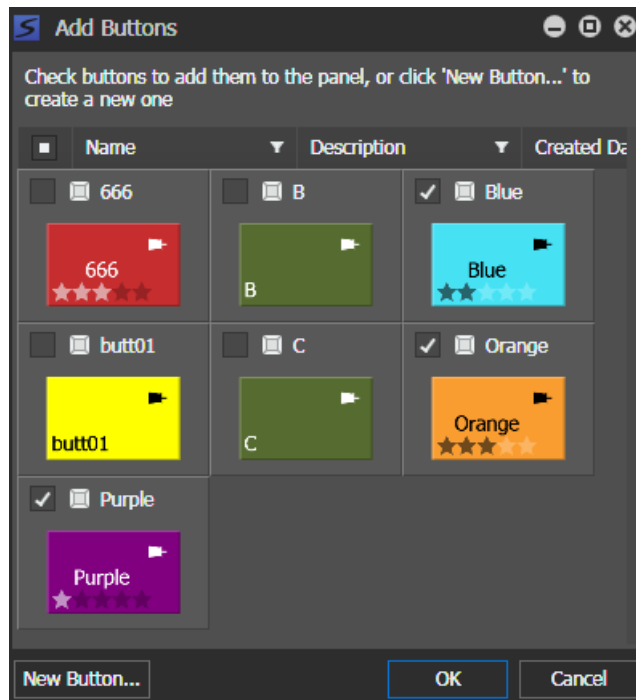
You can also click **Revert** to undo any changes.

You can rearrange Button Panels within the Advanced Logging tool to best suit your workflow needs, by dragging and dropping panels within the user interface. To customize your workspace, refer to [About customizing the application workspace](#) on page 766.

Creating and adding logging buttons

1. Click the **Add Button**  on the Button Panel.

The Add Buttons dialog opens.



2. To choose from existing buttons, select the checkbox of each button to add it to the Button Panel. Then, click **OK**.


3. To create a new logging button, click **New Button**.

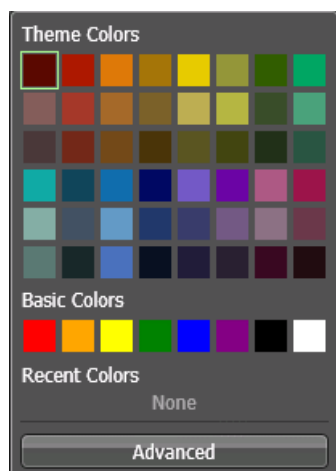
The Inspector loads the configuration page for a new button.

Custom metadata for markers are also available in the Inspector if already configured in the GV STRATUS Control Panel.

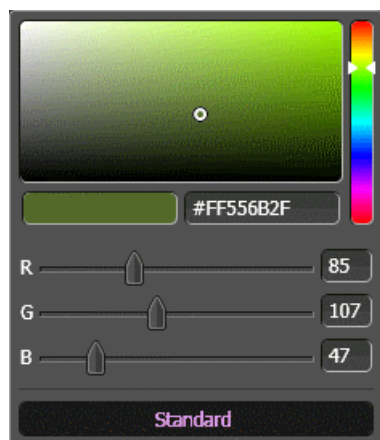
4. Enter the **Name** and **Description** of the new logging button.

The name displays in both **Name** and **Button Text** fields.

5. Enter the **Button Text** if you want to display a different name on the logging button.
6. Click the **Browse** button  button to browse and select the **Button Image**.
7. Select the **Rating** for the logging button.
8. Select the **Display Ratings** checkbox if you want to display the logging button rating.
9. Click the drop-down list of the **Button Color** to display the color palette, and do one of the following:
 - Select any theme or basic colors as provided.



- Click **Advanced** to define your own custom color and RGB values.



The color of the logging button changes according to the selected color.

10. Enter the **Tag** of the logging button, if desired.

11. Enter the **Keyboard Shortcut** for the logging button by doing one of the following:

- Press one key only.
- Press one key and one modifier key simultaneously.

NOTE: Tab and Alt modifier keys are not supported.

- Press one key and two modifier keys simultaneously.

NOTE: Pressing Alt, Shift, and one key simultaneously is not supported.

A keyboard shortcut can be assigned to multiple logging buttons on your Button Panels.

However, you cannot assign existing keyboard shortcuts of GV STRATUS tools for your logging button. Keyboard shortcuts of other GV STRATUS tools do not appear on the **Keyboard Shortcut** box when pressed.

12. Click **Add** to add the logging button to the Button Panel.

13. Repeat previous steps if you want to create more logging buttons.

Logging buttons are automatically saved after they are added into the Button Panel.

NOTE: To reuse logging buttons from other Button Panels, you can also drag logging buttons from those Button Panels and drop them into your Button Panel.

Related Topics

[All keyboard shortcuts](#) on page 1135

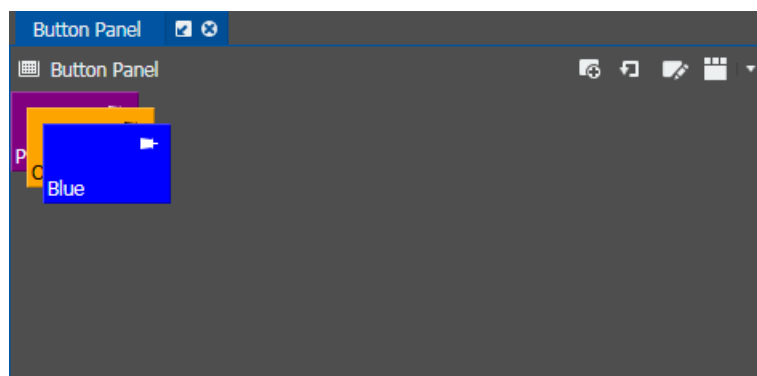
Customizing of Logging Panels and Buttons using Design Mode

When the **Design Mode** is selected, users can customize the size and placement of buttons within a panel.

1. In the Button Panel, select **Manual** from several View Mode options within the panel toolbar.



Buttons are automatically arranged in a stack, in preparation for manual placement.

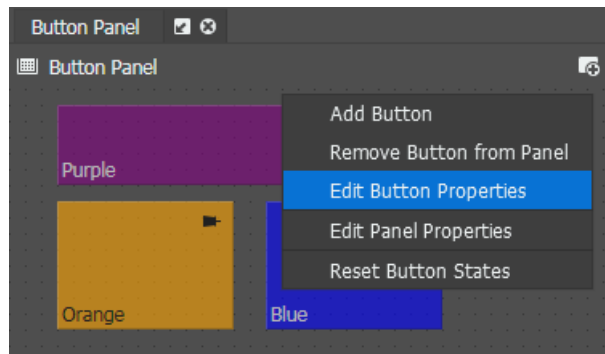


2. Click the **Design Mode**  button on the toolbar.

Buttons may now be freely placed within the field of the Button Panel. Buttons can also be re-sized by clicking on the button's bottom right hand corner, then scaling them using the mouse.

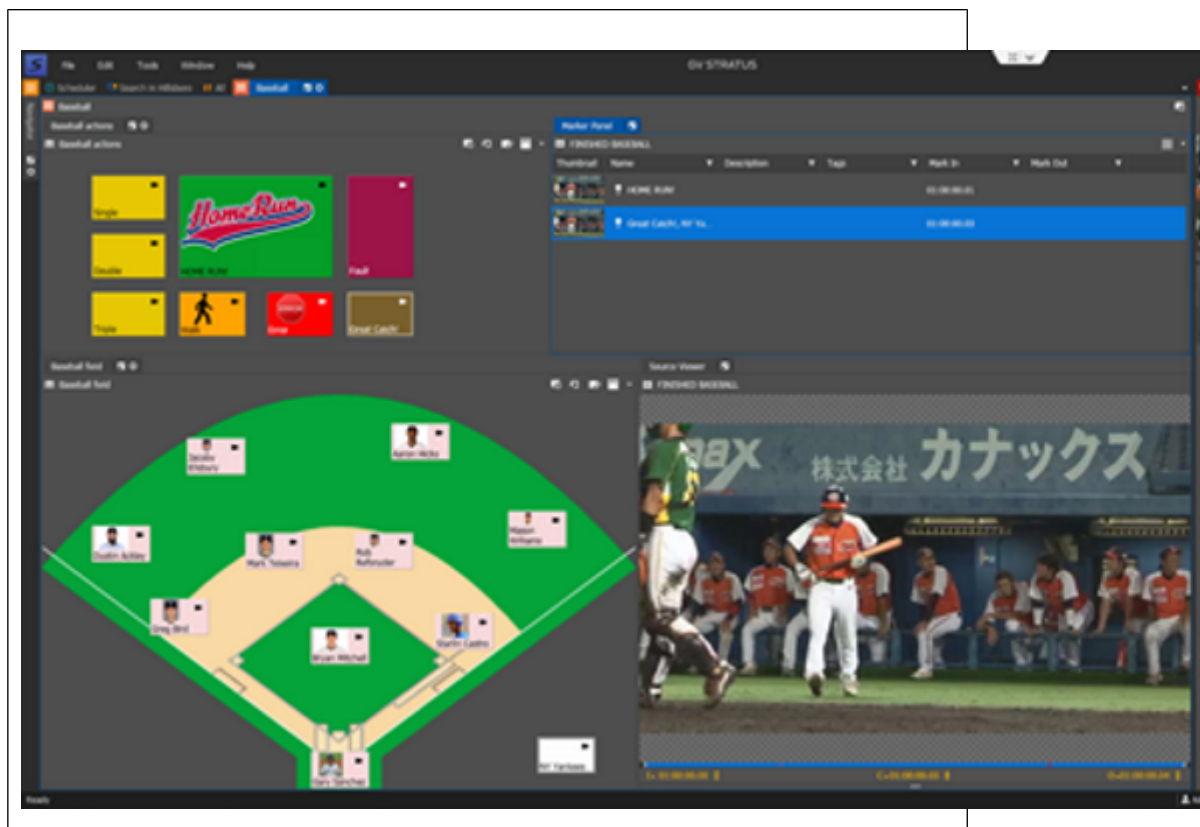


3. To change any properties of the logging button, right-click on a button and select **Edit Button Properties**.



4. Once editing is completed, click the **Design Mode** button on the toolbar to save your changes for the Button Panel.

Using this tool, it is possible to create complex graphical Button Panels and Button layouts, to make the logging process simpler and more efficient for Operators.




Adding markers using logging buttons

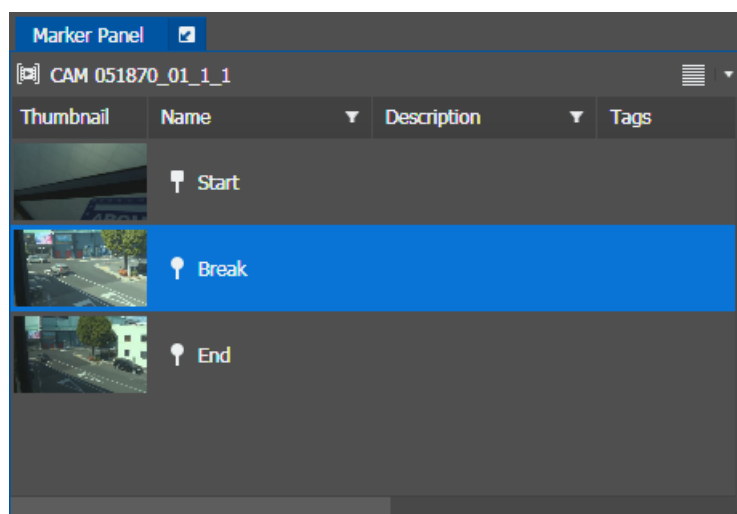
If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, markers, keywords, and metadata that do not have read permissions are not visible. All marker

permissions must be set to Allow before you can add markers to assets in the Advanced Logging tool.

You can add markers to your assets by using logging buttons on the Button Panel.

1. Load the selected asset into the Source Viewer.
2. Click the **Play** button  or use other transport controls to preview the asset.
3. Do one of the following below:
 - Click the appropriate logging button on the Button Panel.
 - Press those keyboard shortcut keys that you had set for your logging buttons.

The marker and its metadata appear on the Marker Panel. The marker applies to a selected point in time of the asset.



4. Enter the description of the marker in the Marker Panel.

This can be done easily if you already defined the **Set auto-focus on marker creation** to either Name, Description, or Tag in the user preferences setting for Advanced Logging.

5. If you need to click multiple buttons for a marker, set the number of seconds needed for the **Automatic Button Reset Duration** setting in the User Preferences. For more details, refer to [Changing Advanced Logging user preferences](#) on page 1044.

The marker is added and automatically saved to the asset. A symbol indicates its location in the Source Viewer. If you select a symbol, the thumbnail associated with that point is loaded into the Source Viewer and the slider is moved to that position.

If you need to add keywords to your assets, you can still do so in the Source Viewer.

Related Topics


[Adding keywords](#) on page 942

[Adding markers](#) on page 940


[Changing Advanced Logging user preferences](#) on page 1044

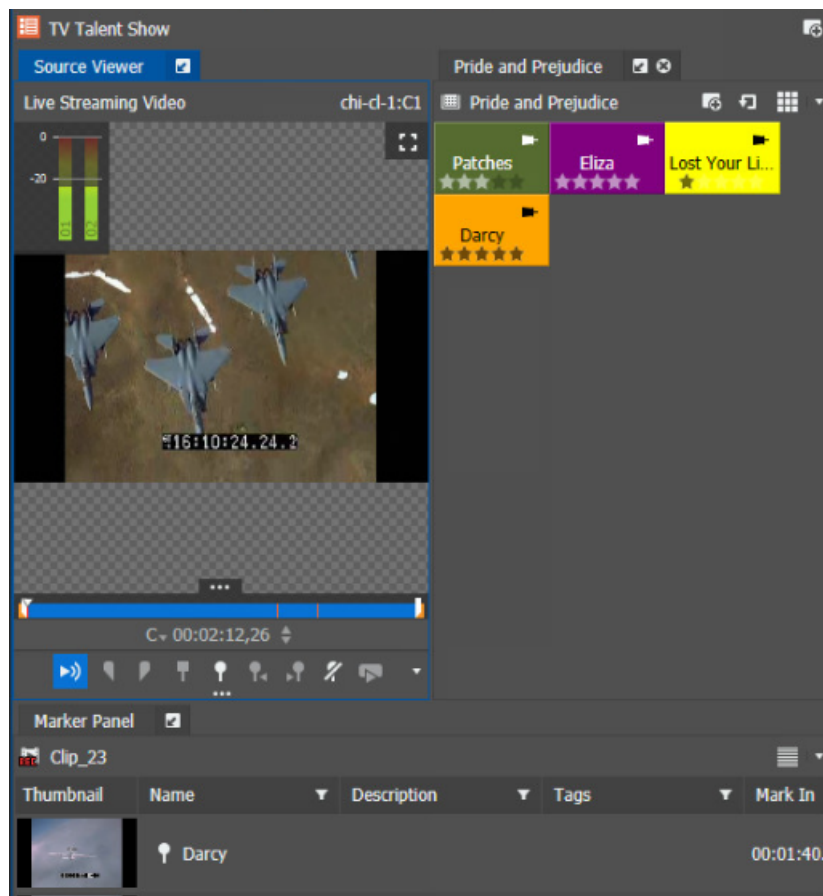
Logging assets in Live Mode

You can log your assets while it's still recording by adding markers via Live Mode.

1. Load the still recording asset into the Source Viewer.
2. Click the **Live Streaming Video** button  to preview the asset in Live Mode.

The K2 Summit and channel information where the live stream is coming from display on the upper right corner of the Source Viewer.

3. Click the **Play** button  to play the asset.
4. To log the asset, do one of the following below:
 - Click the appropriate logging button on the Button Panel.
 - Press those keyboard shortcut keys that you had set for your logging buttons.



The marker appears on the Marker Panel. Enter the description of the marker, if desired.

Logging is only allowed at the current timecode of the stream as displayed by the timecode control in Source Viewer. Scrubbing is disabled in Live Mode.

Live Mode ends when the asset stops recording.



The marker is added and automatically saved to the asset. A symbol indicates its location in the Source Viewer. If you select a symbol, the thumbnail associated with that point is loaded into the Source Viewer and the slider is moved to that position.

Using a keyword or marker to add an event to a sequence

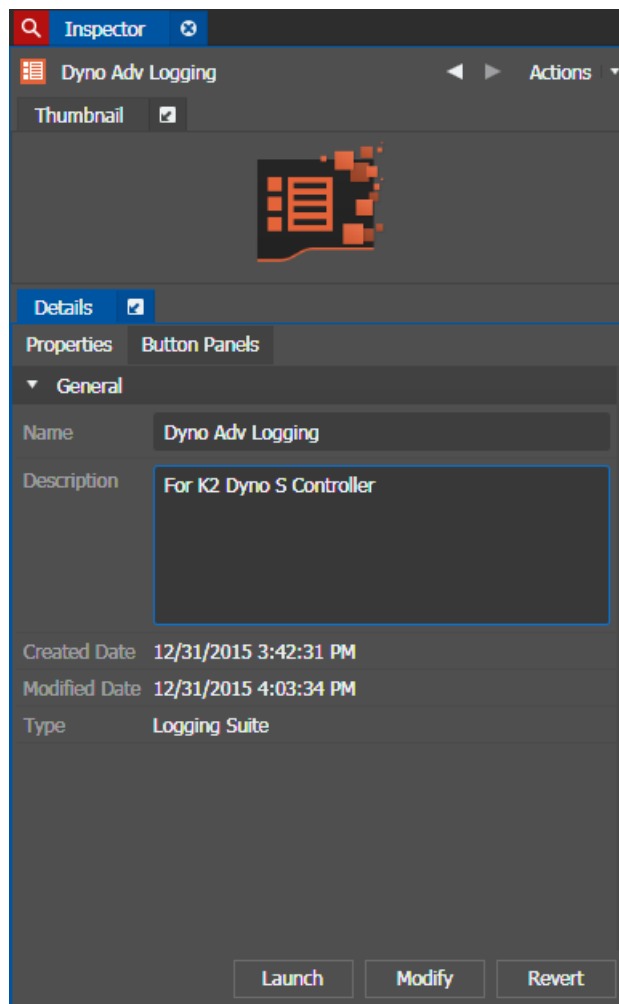
In the Source Viewer or the Inspector, drag and drop the symbol associated with the keyword or marker to the Storyboard Editor.

If you dragged a keyword to the Storyboard Editor, the part of the asset between the mark-in and mark-out points is added to the sequence. If you dragged a marker, the frame associated with the marker is added to sequence (plus a default duration).

Modifying Logging Suites and Button Panels

1. Do one of the following:
 - To modify the Logging Suite, drag the Logging Suite icon  on the Logging Suite into the Inspector.
 - To modify the Button Panel, do one of the following:
 - Drag the Button Panel icon  into the Inspector.
 - Right-click on a button in the Button Panel and select **Edit Panel Properties**.

The properties load into the Inspector.



2. Rename the Logging Suite or the Button Panel.
You can also change the description if desired.
3. Select or deselect check boxes on the next tab to choose Button Panels for your Logging Suite, or choose logging buttons for your Button Panel.

4. Click **Modify** to save your changes.
5. Click **Revert** if you want to undo the change.
6. Click **Launch** to open the modified Logging Suite or Button Panel.

Modifying logging buttons of the Button Panel

1. Select a logging button that you want to modify on the Button Panel.
2. Do one of the following:
 - Right click and select **Edit Button Properties**.
 - Drag the logging button from the Button Panel and drop it into the Inspector.

The button properties load into the Inspector.

3. Change any properties of the logging button.
4. Click **Modify**.

The logging button is modified.

NOTE: A button can also be dragged from the button list in the Inspector into the Properties panel of the Inspector to be modified.


Deleting logging buttons from a Button Panel

1. Right-click on the logging button that you want to delete.
2. Select **Remove Button from Panel**.

The button is removed from the Button Panel.

Pinning logging buttons

You can pin logging buttons to add the pinned marker to other markers during asset logging.

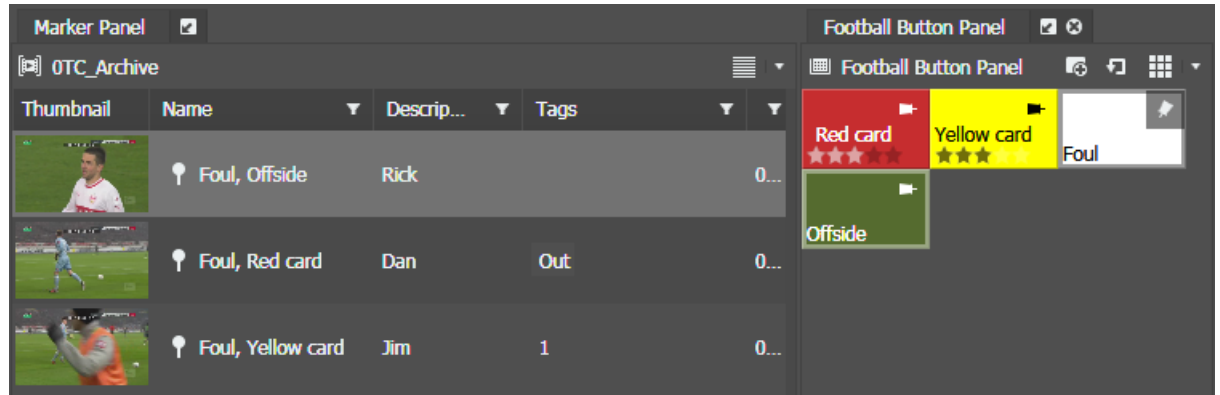
1. Select a logging button that you want to pin in the Button Panel.
2. Click the **Pin Audio** button  on the logging button.

The pin button points downward to indicate that the logging button is pinned.



3. Start logging by selecting logging buttons on the Button Panel as you play the asset.

Markers are displayed on the Marker Panel as logs for the asset. Each marker also has the pinned metadata added to it.



Changing Advanced Logging user preferences

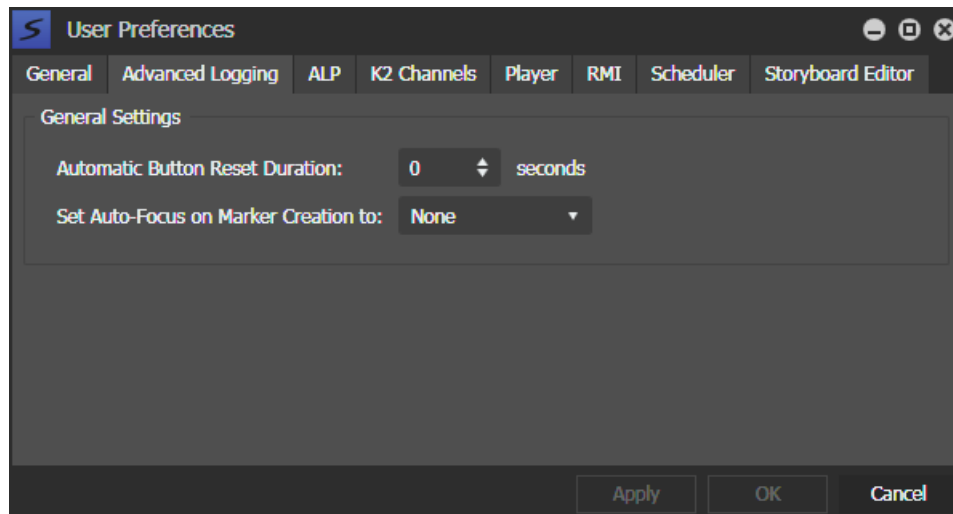
You can change a few general settings of the Advanced Logging tool within the user preferences window.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. Select the tab for the panel or component you are configuring and make settings accordingly.
3. To configure Advanced Logging user preferences, select the **Advanced Logging** tab.



- To set the Automatic button reset duration, enter the number of seconds that you prefer.

Logging buttons stay depressed according to the number of seconds that had been set, so that multiple buttons can be selected to log the marker.

- To set auto-focus to editable fields after creating markers, click the drop-down list and select the field.

Fields that can be selected are **Name**, **Description**, and **Tag**. The selected field is automatically focused for metadata insertion each time a marker is created.

If you don't want to set auto-focus on any fields, select **None**.

- To apply a change and continue editing user preferences settings, click **Apply**.

- To accept any changes and close the dialog box, click **OK**.

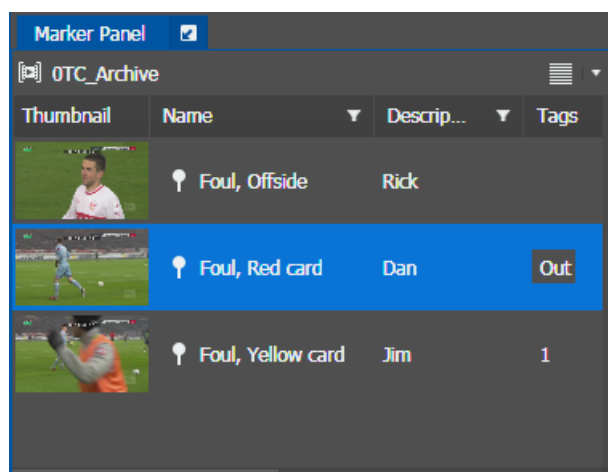
The dialog box closes.

Modifying markers and keywords

- If GV STRATUS security is enforced, your credentials must give you full read and write permissions on bins, assets, metadata, and markers.
- All marker permissions must be set to Allow before you can modify or delete markers and keywords via the Advanced Logging tool. Without full marker permissions, logging buttons will be disabled.

You can view markers and keywords of an asset in the Marker Panel, Source Viewer or the Inspector panel.

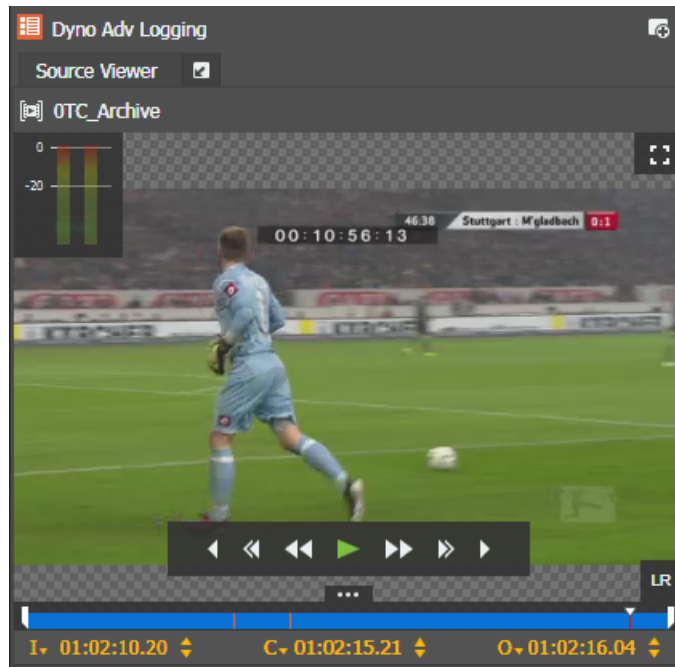
- To view keywords and markers in the Marker Panel, scroll down the Marker Panel.



2. To view the keyword or marker in the Source Viewer or the Inspector panel, do the following:

- Click the keyword or marker in the Marker Panel to view it in the Source Viewer.
- Drag and drop a keyword or marker from the Marker Panel into the Inspector.

In Source Viewer, the scrub bar jumps to the keyword or marker point, and the thumbnail associated with the keyword or marker displays.



In Inspector, the properties and thumbnail associated with the keyword or marker are displayed.

- Double click the keyword or marker on the Marker Panel to view their properties and edit those properties in the **Properties** window.

The screenshot shows a 'Properties' window with a dark theme. The 'General' tab is selected. The 'Name' field contains 'Injury Time' and the 'Description' field contains 'Break'. The 'Tags' field has a placeholder text 'Eg: These,Are,Tags'. The 'Mark In' field shows '01:02:10.20' and the 'Mark Out' field shows '01:02:16.04'. The 'Rating' field shows five stars. The 'Creator' field shows 'GV Administrator'. The 'Primary Angle' field is empty. The 'Modified Date' and 'Created Date' fields both show '1/20/2016 9:19:33 AM'. The 'Type' field shows 'Keyword'. At the bottom, there is an 'Other' section with a right-pointing arrow. Navigation buttons 'Prev', 'Next', and 'Close' are at the bottom right.

You can see whether it's a marker or keyword from the **Type** information. For a keyword, there is an additional **Mark Out** display in the Properties window.

If you have custom metadata already defined for markers and keywords, their properties will also be displayed.

If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions. You can only view metadata with read permissions, and modify metadata with write permissions. If read or write permissions are denied, your metadata fields will be disabled.

Related Topics

[Using a keyword or marker to add an event to a sequence](#) on page 1041

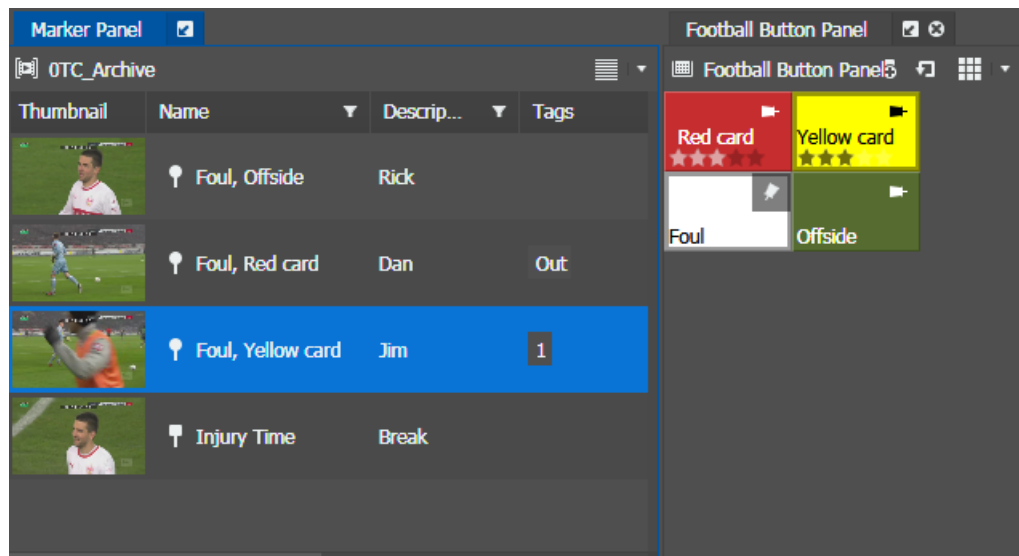
Viewing logging history of markers

You can view the logging history of markers in the Button Panel.

1. Select a marker on the Marker Panel.

Buttons that were used to create the marker get pressed.

Each time a marker is selected in the Marker Panel, logging buttons that made the marker are automatically pressed and highlighted in the Button Panel to indicate the logging history.



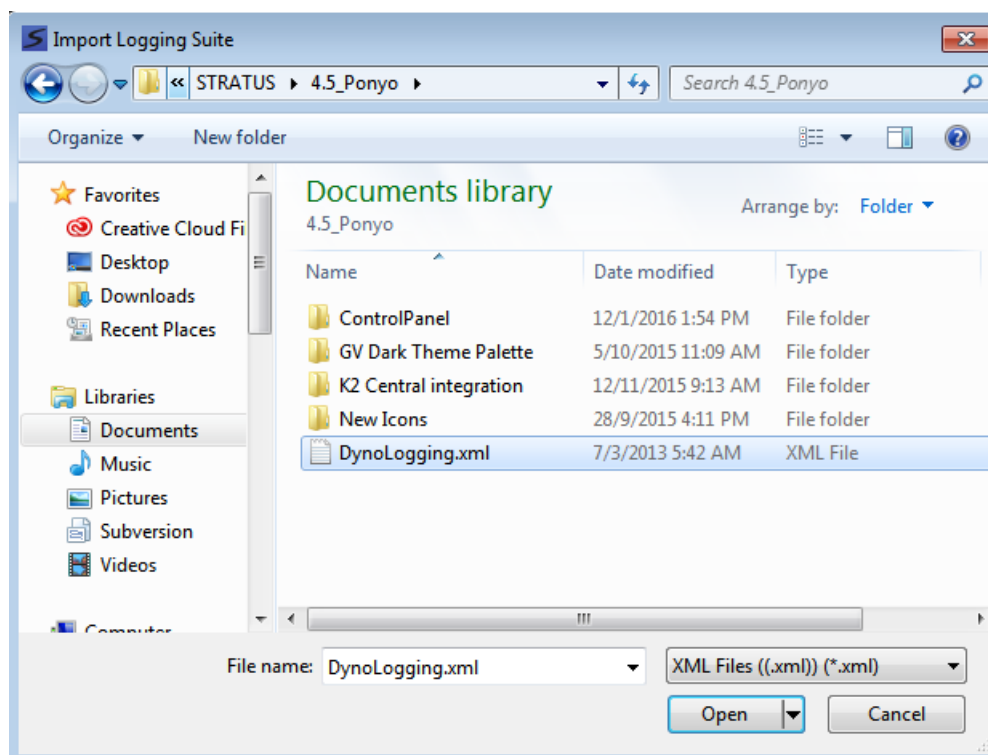
2. If you want to add more metadata to the marker, click another button in the Button Panel.
The selected button is pressed in the Button Panel, and the metadata is added to the marker.
3. If you want to remove metadata from the marker, click a pressed button in the Button Panel.
The selected button is depressed in the Button Panel, and the metadata is removed from the marker.

Importing Logging Suite

You can import a Logging Suite configuration from an XML file into your Advanced Logging Tool.

1. Go to **Tools | Advanced Logging**, right-click and select **Import Logging Suite**.

The **Import Logging Suite** dialog displays.



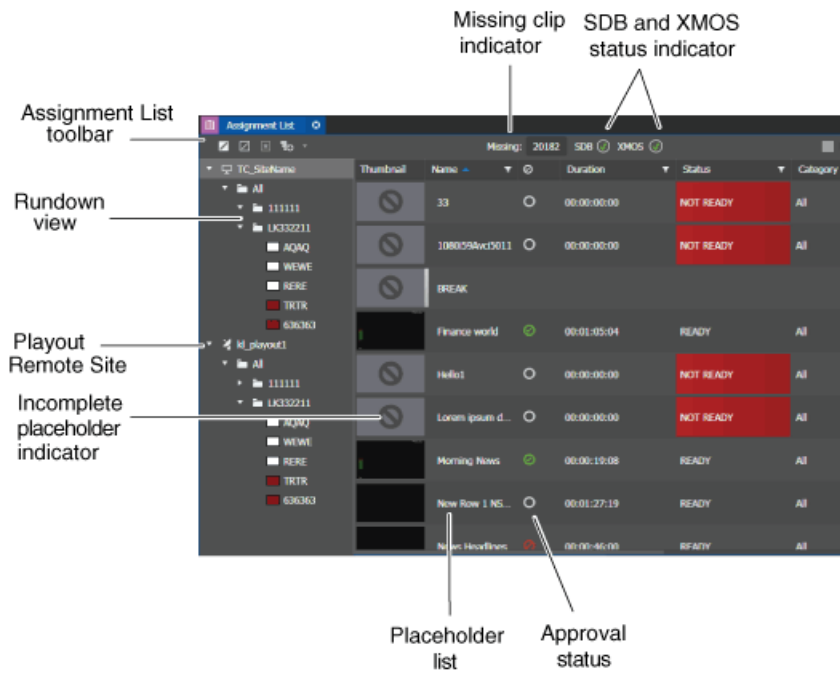
2. Browse to the location of the XML file, and select it.
3. Click **Open**.

Logging buttons and Button Panels are created in the new Logging Suite according to the imported XML file.

Using the Assignment List




The Assignment List tool

The Assignment List tool allows you to create placeholders for clips, assign those placeholders to newsroom editors, add new sequence, and link the resulting clips to rundown stories on your Newsroom Computer System. You also need GV STRATUS Rundown components such as SDB Server and XMOS Server to run the Assignment List tool. With the proper license and assigned role, Assignment List appears in the GV STRATUS application as a panel that can be accessed from the Window menu, the tool section of the Navigator panel, and the **Link to Placeholder** tab in the Inspector panel.



The Assignment List panel features are as follows:

- **Toolbar** — Displays buttons to add placeholders, show placeholders with missing clips, delete placeholders, and add new sequence to placeholders.
- **Missing clip indicator** — Displays the number of missing clips that can help you determine the number of incomplete assignments.
- **Incomplete placeholder indicator** — Displays blank thumbnails for incomplete placeholders. Completed placeholders are identified by the thumbnail display and **READY** status in the Status column.
- **Placeholder list** — Displays incomplete and completed placeholders. When you select a rundown, all placeholders in that rundown appear in the placeholder list. When you select a story in the rundown, only placeholders in that story appear in the placeholder list in the same sequence as in the story.
- **Approval status** — Displays the approval status of placeholders. You can only set the approval status on linked placeholders with **Ready** status in the Inspector panel.
- **Playout Remote Site** — Displays placeholders in the remote site. The Playout remote site must be configured in the GV STRATUS Control Panel before it can be accessed via the Assignment List.
- **Rundown view** — Displays rundowns and stories for each rundown. Rundowns display alphabetically in the panel, while stories appear in sequence as assigned in the Newsroom Computer System.
- **SDB status indicator** — Displays the connection status between Assignment List and Simple Database (SDB) Server. The SDB Server updates clip status, clip duration, and amount of missing clips for the Assignment List tool.
 - — Connected
 - — Disconnected

- XMOS status indicator — Displays the status of XMOS Server. The XMOS Server provides the communication between the Newsroom Computer System and the Assignment List tool.
 -  — Connected
 -  — XMOS Server is disconnected with the GV STRATUS application
 -  — XMOS Server is disconnected with the Newsroom Computer System

With the Assignment List tool, you can create placeholders, monitor rundown or clip status, and view or change placeholder properties.


Standard Asset List features such as filter list, sort list, asset tooltip, and customization of **View Mode** are available in the Assignment List tool.


If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible.

Assignment List buttons

These buttons located on the Assignment List panel let you perform various functions.

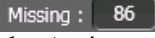
 **New Placeholder:** Adds a new placeholder in the Assignment List tool.

 **Missing Placeholders Only:** Shows placeholders with missing clips only in the Assignment List tool.

 **Delete:** Deletes the selected item or items. Disabled if delete rights denied in GV STRATUS Control Panel.

 **New Sequence:** Creates a new sequence.

 **New Project in EDIUS:** Creates a new project in the EDIUS XS application.

 **Missing Clip indicator:** Shows the number of placeholders with missing clips in the Assignment List tool.

Story status colors

Each story in the rundown view appears in a color that identifies its status in the Assignment List.

Story Color	Story Status
White	READY
Red	NOT READY
Dark Blue	STANDBY
Green	PLAY
Yellow	STOPPED
White	END
White	DISCONNECTED

Story Color	Story Status
Light Grey	BREAK

Changing ALP User Preferences

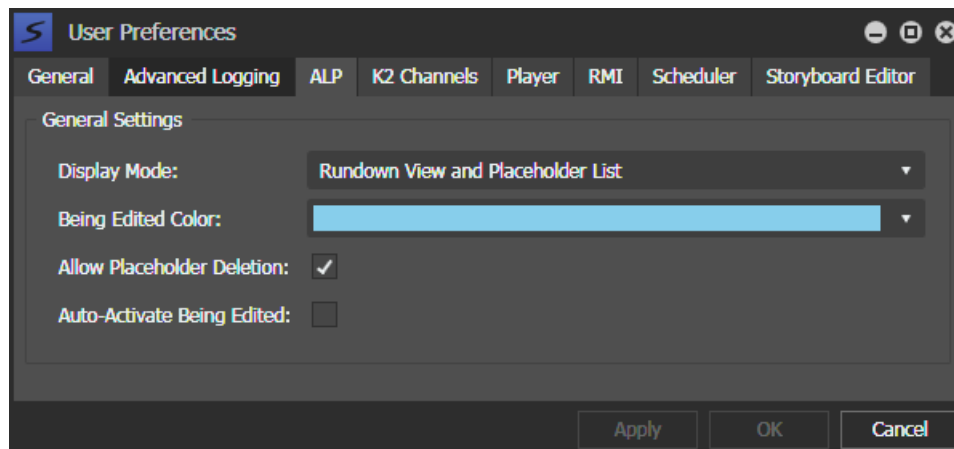
You can Assignment List options within user preference settings.

1. Select **Edit | User Preferences**.

The User Preferences dialog box opens.

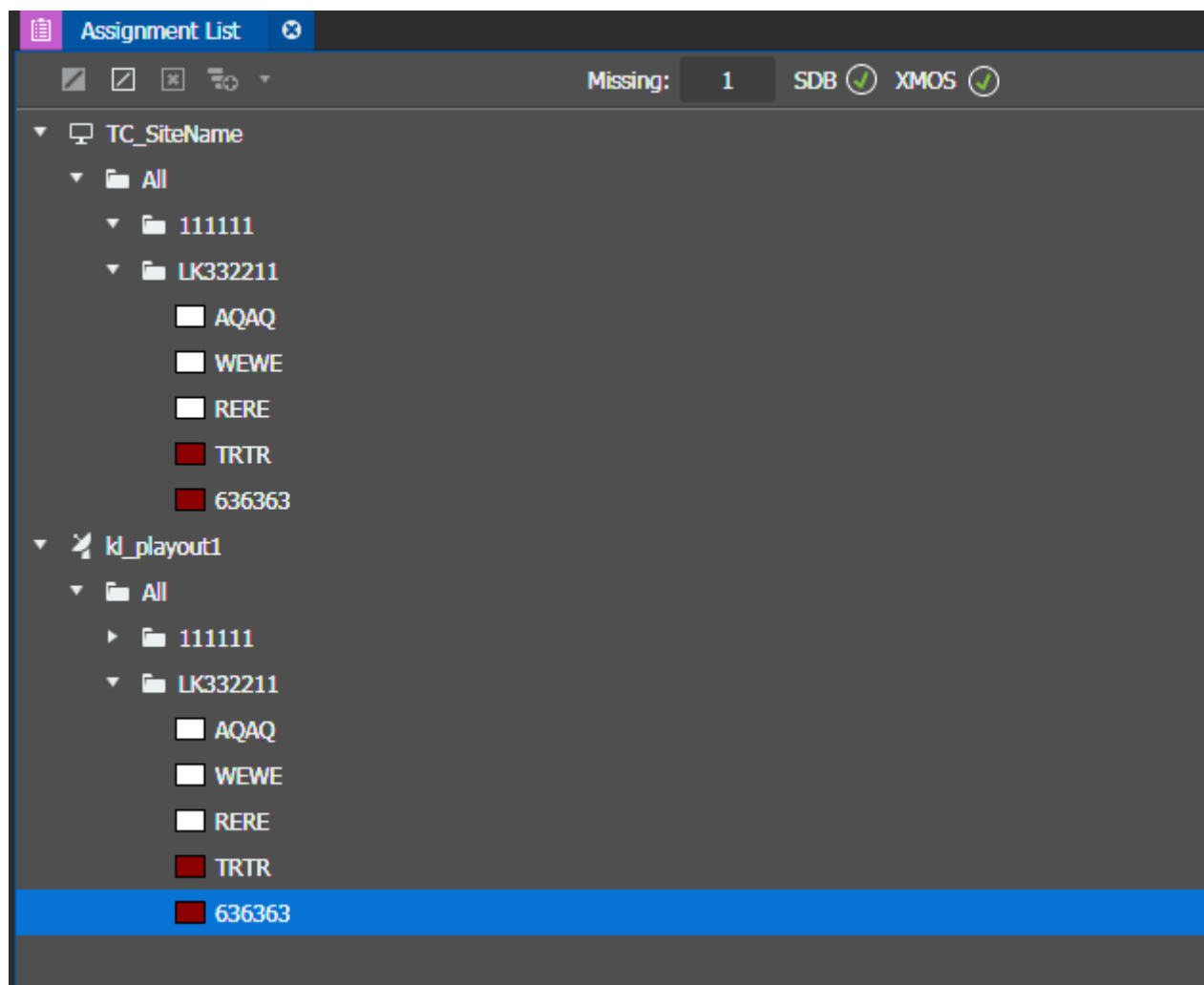
The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

2. Select the tab for the panel or component you are configuring and make settings accordingly.
3. To configure Assignment List user preferences, select the **ALP** tab.



4. To select the **Display Mode** of your Assignment List tool, click the drop-down list, and choose from the following:

Rundown View — Displays rundown view only.



Placeholder List — Displays placeholder list only.

Assignment List						
			Missing: 20182 SDB XMOS			
Thumbnail	Name	Duration	Status	Category	T...	
	#A1 Duration 00:00:00:00 Created Date 1/14/2016 10:19:53... Modified Date 1/14/2016 10:19:53...			#AA Duration 00:00:00:00 Created Date 12/8/2015 4... Modified Date 12/8/2015 4...		
	#test Duration 00:00:10:00 Created Date 12/8/2015 2:43:02... Modified Date 1/14/2016 10:04:34...			#test2 Duration 00:00:00:00 Created Date 12/8/2015 2... Modified Date 1/14/2016 1...		
	#test3 Duration 00:00:00:00 Created Date 12/8/2015 2:45:25... Modified Date 12/8/2015 3:35:59...			@aftRestart1 Duration 00:00:02:00 Created Date 11/25/2015... Modified Date 12/8/2015 2...		
	@FromClipGen(0001)a Duration 00:00:00:00 Created Date 12/8/2015 3:13:03... Modified Date 12/8/2015 3:13:03...			@FromClipGen(0002) Duration 00:00:00:00 Created Date 11/25/2015... Modified Date 11/25/2015...		
	@FromClipGen(0003) Duration 00:00:00:00 Created Date 11/25/2015 9:03:08... Modified Date 11/25/2015 9:03:08...			@FromClipGen(0004) Duration 00:00:00:00 Created Date 11/25/2015... Modified Date 11/25/2015...		
	@FromClipGen(0005) Duration 00:00:00:00 Created Date 11/25/2015 9:03:08... Modified Date 11/25/2015 9:03:08...			@FromClipGen(0006) Duration 00:00:00:00 Created Date 11/25/2015... Modified Date 11/25/2015...		

Rundown View and Placeholder List — Displays rundowns and placeholder list.

Assignment List

TC_SiteName

All

111111

LK332211

AQAA

WEWE

RERE

TRTR

636363

kl_playout1

All

111111

LK332211

AQAA

WEWE

RERE

TRTR

636363

Thumbnail

Name

Duration

Status

33

00:00:00:00

NOT P

1080i59Avc15011

00:00:00:00

NOT P

BREAK

Finance world

00:01:05:04

READ

Hello1

00:00:00:00

NOT P

Lorem ipsum d...

00:00:00:00

NOT P

Morning News

00:00:19:08

READ

New Row 1 NS...

00:01:27:19

READ

News Headlines

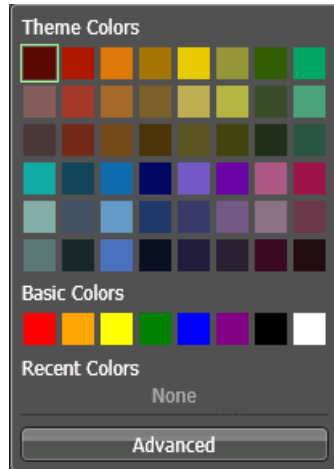
00:00:46:00

RFAD

2017 01 22

GV STRATUS 5.0 (SP1) Topic Library 1055

5. To change the **Being Edited Color** of placeholders, click on the drop-down list to display the color palette, and do one of the following:
 - Select any theme or basic colors as provided.



- Click **Advanced** to define your own custom color and RGB values.



The color of being edited placeholders is changed to the selected color.

The status of a placeholder changes to being edited if the placeholder is linked to a scheduled event, linked to an RMI clip, or when the being edited checkbox is selected in the placeholder properties.

6. Set other options as follows:
 - **Allow Placeholder Deletion:** Allows placeholder deletion in the Assignment List tool.
 - **Auto-Activate Being Edited:** When a new sequence is added to a placeholder, the sequence is automatically set to **Being Edited**.


7. To accept any changes and close the dialog box, click **OK**.
The dialog box closes.

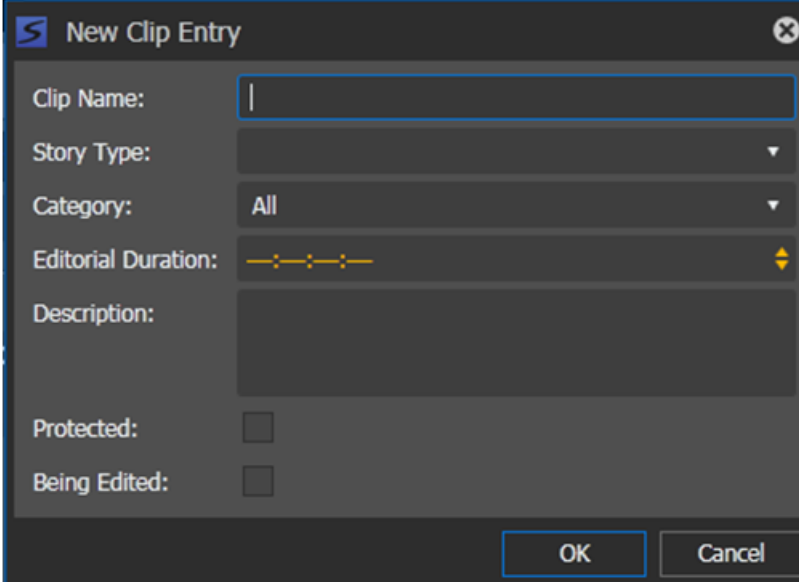
Related Topics

[Deleting a placeholder](#) on page 1059

Adding placeholders

Placeholders are essentially assignments for editors, who can then create clips for the story, and send them to a K2 Summit/SAN system for playback. You need to create a placeholder for each clip that you link to a rundown.

1. In the Assignment List tool, click the **New Placeholder** button. 

The image shows a 'New Clip Entry' dialog box with a dark background. It has a title bar with a blue 'S' icon and a close button. The form contains several fields: 'Clip Name' with a text input field, 'Story Type' with a dropdown menu, 'Category' with a dropdown menu set to 'All', 'Editorial Duration' with a range slider, and 'Description' with a large text area. At the bottom, there are two checkboxes labeled 'Protected' and 'Being Edited', both of which are unchecked. The dialog box has 'OK' and 'Cancel' buttons at the bottom right.

The New Clip Entry dialog box opens.

2. Enter the clip name.

The name identifies the placeholder in the Assignment List (which can also be seen in the Newsroom Computer System).

3. You can also provide additional information about the placeholder:

- **Story Type** — Select a Story Type from the drop-down menu. Available story types are **SOT** (Sound On Tape) or **VO** (Voice Over). You can also leave this field blank.
- **Category** — Select a category from the drop-down menu. The category determines how stories are grouped and sorted.
- **Editorial Duration** — Enter a duration for the placeholder. The Editorial Duration is an optional value you can set for an estimated on-air duration of the clip that can be changed to a more precise value later.

NOTE: Editorial Duration has the priority over clip duration. Once an Editorial Duration is set; it will not be adjusted to clip duration, even after clip is associated with the placeholder. The editor needs to set the final Editorial Duration before the clip is sent for playback.

- **Description** — Enter a description for the placeholder. The description helps editors to identify the clip that they need.
- **Protected** — Check this box to prevent the clip from being deleted by other users.
- **Being Edited** — Check this box to indicate when the sequence for a placeholder is currently being edited.

4. Click **OK**.

The new placeholder appears on the Assignment List tool.

NOTE: The Clip ID and Date are set automatically when you create a new placeholder.

Related Topics

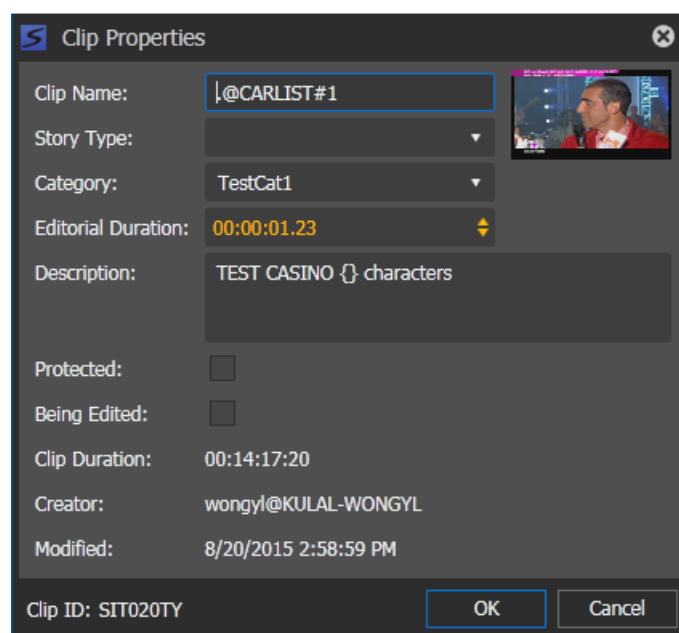
[*Limitations for creating and naming assets and bins*](#) on page 1146

Modifying a placeholder

If you need to, you can change or modify properties of a placeholder.

1. Right-click on the placeholder that you want to modify and select **Edit Properties**.

The Clip Properties dialog box opens.



2. Modify any properties in the dialog box.

NOTE: *Properties that cannot be modified are creator, modified date and clip ID.*

3. Click **OK**.

The placeholder properties are modified on the Assignment List tool.


Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

Deleting a placeholder

If desired, you can delete placeholders, associated assets, and essences from the Assignment List tool.

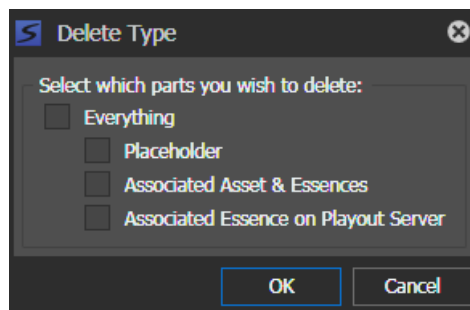
1. Do one of the following to delete a placeholder:

- Select the placeholder that you want to delete and click the **Delete** button. 
- Right-click on the placeholder and select **Delete Placeholder**.

2. Select your options as follows:

- Everything — Select this to delete the entire asset including placeholder, associated asset and essences, and associated essence on the managed Playout Server.
- Placeholder — Select this to only delete the placeholder on the GV STRATUS application.
- Associated Asset & Essences — Select this to only delete the associated asset and essences on your K2 Summit/SAN system.
- Associated Essence on Playout Server — Select this to only delete the associated essence on the managed Playout Server if you already sent it out for playback.

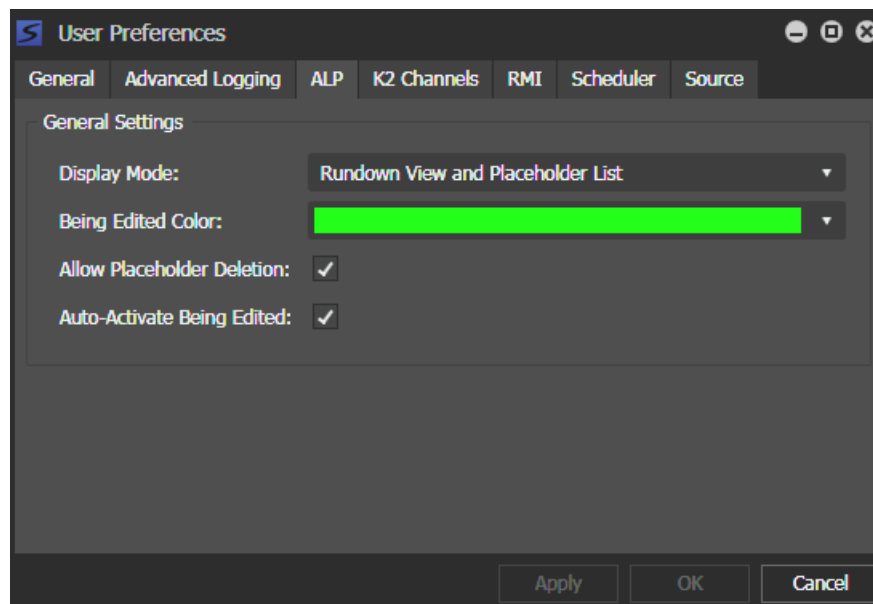
NOTE: *Deletion of essence on an unmanaged playout server is not supported. However, you can still delete via the Aurora Playout Housekeeper application or delete directly on the unmanaged playout server.*



3. Click **OK**.

If the **Delete** button is not selectable or **Delete Placeholder** is grayed out in the context menu, you need to check ALP settings in the User Preferences menu.

Select **Edit | User Preferences | ALP** and check the **Allow Placeholder Deletion** box.




Related Topics

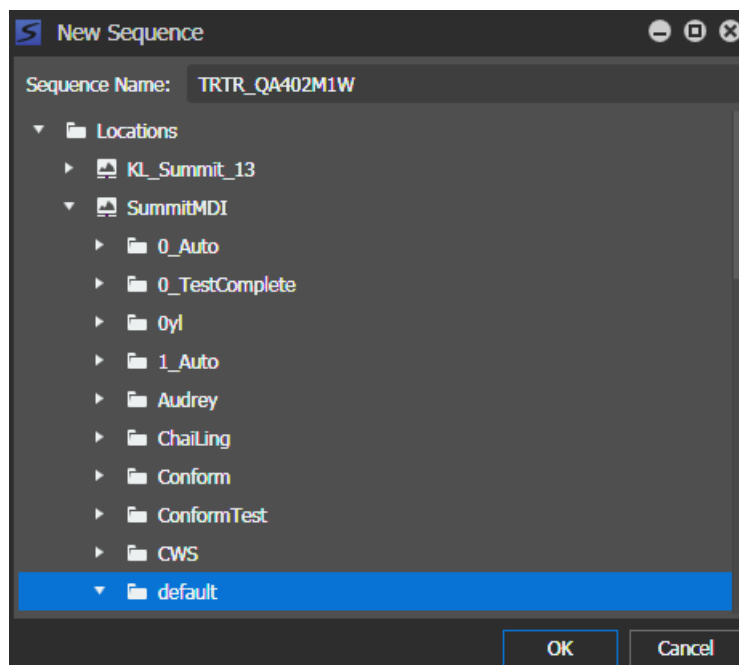
[Deleting assets](#) on page 791

Adding a new sequence

You can add a new sequence to a placeholder in the Assignment List tool.

1. Select a placeholder that you want to add a new sequence into.
2. Click the **New Sequence** button. 

The New Sequence dialog opens.



The sequence name is automatically populated with the placeholder name and ID. You can still change the sequence name if you want to.

3. Select a location for the sequence and click **OK**.

The Storyboard Editor tool launches automatically if it is not already opened. The sequence name can be viewed in the Sequence Viewer and Storyboard panels.


4. Add events as necessary to the sequence.

If configured in ALP user preferences settings, the placeholder row color changes to the being edited color in the Assignment List.

Checking missing clips

The Assignment List lets you see if clips are complete and ready for air.

You can only see thumbnails for placeholders with completed clips, which can also be identified by **Ready** status in the Assignment List. The thumbnail column is blank for placeholders with missing clips.

- To display placeholders with missing clips only, click the **Missing Placeholders Only** button. 

You can also see the number of placeholders with missing clips from the indicator on the toolbar.

If you want to see the entire list of placeholders, click again the **Missing Placeholders Only** button.



Viewing placeholder properties

You can view the properties of a placeholder in the Inspector panel.

Right-click on the placeholder and select **View Properties**.

The placeholder properties display in the Inspector panel.

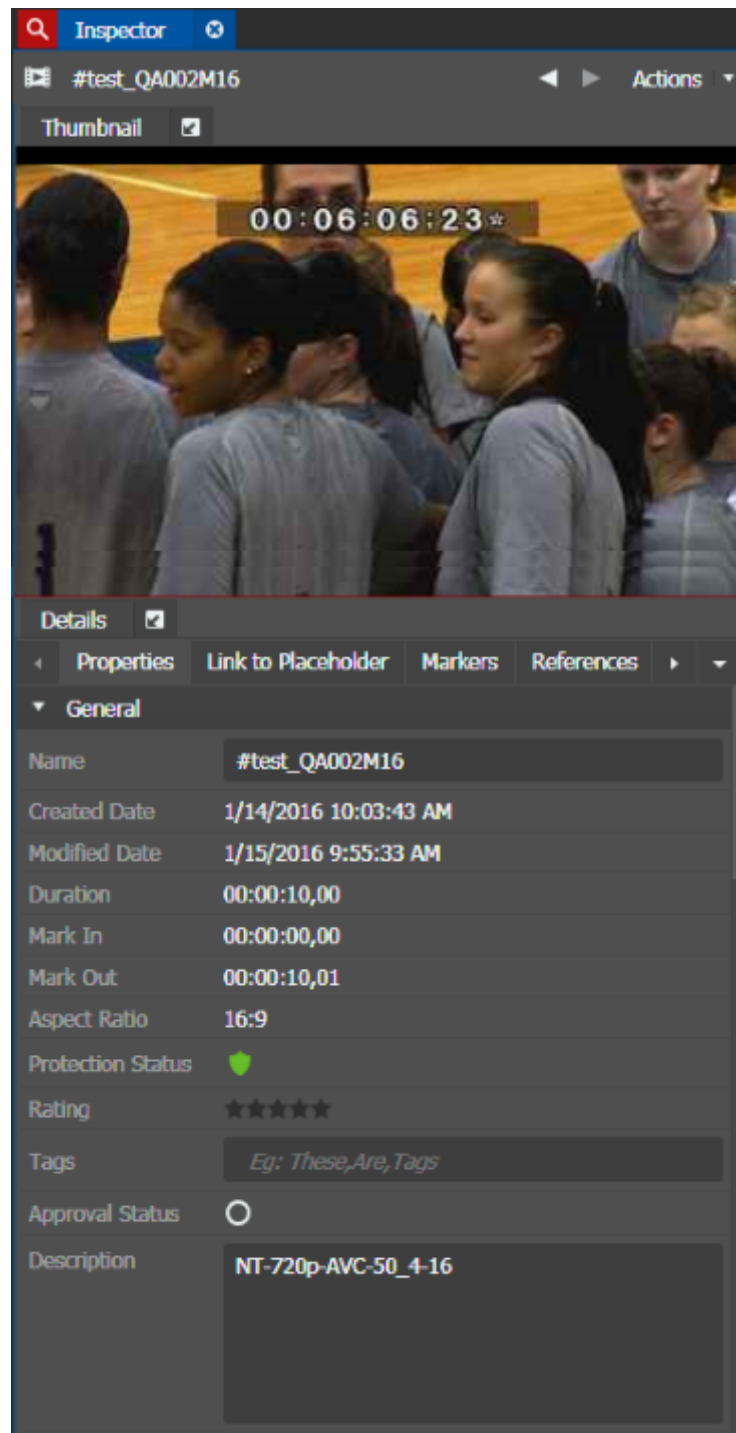
Viewing and modifying metadata of linked placeholders

You can view and modify metadata of placeholders with **Ready** status. When you modify the metadata, you are actually modifying the metadata of the asset that is already associated with the placeholder.

The inserted metadata can then be used as the search criteria to easily search assets in the Asset List panel.


1. To view or modify the metadata, do one of the following below:
 - Drag and drop the placeholder into the Inspector panel.
 - Double-click the placeholder.

The metadata loads into the Inspector panel.



2. On the **Properties** tab, you can view or modify metadata of placeholders.


You can also add and customize metadata fields in the Metadata settings within the GV STRATUS Control Panel application.

3. To lock the status, click the **Unprotected** button. 

The asset is now locked. To unlock, click the **Protected** button. 


4. To add a star rating, click the star or stars next to Rating.


When you add a star, it retains the color fill even when the mouse is no longer hovering over it.

5. Click the **None** icon  to change the approval status.

The approval status changes to **Approved**.

You can click the icon to toggle the approval status of the linked placeholder. The selected approval status displays on the Assignment List.

 **None:** Identifies the approval status of the clip as none.

 **Approved:** Identifies the approval status of the clip as approved.

 **Rejected:** Identifies the approval status of the clip as rejected.

6. Set the **MetadataExpireDate** and **Source ID**, if needed.
7. To view lists of related assets and relationships, see other tabs of the Inspector panel.


Related Topics

[Viewing relationships](#) on page 820

[Verifying proxy association](#) on page 821

Creating a new sequence in the EDIUS application


You can create a new sequence in the EDIUS for GV STRATUS application from the Assignment List. The new sequence appears in the EDIUS as a new project. This enables further editing to be done using EDIUS before sending your sequence for playback. The sequence which is automatically linked to a placeholder can then easily be sent to the K2 system from the EDIUS application.

The **New Project in EDIUS** button  is only available if you are assigned with the EDIUS XS role in the GV STRATUS Control Panel and the EDIUS application must be installed on your machine.

1. Select a placeholder in the Assignment List.

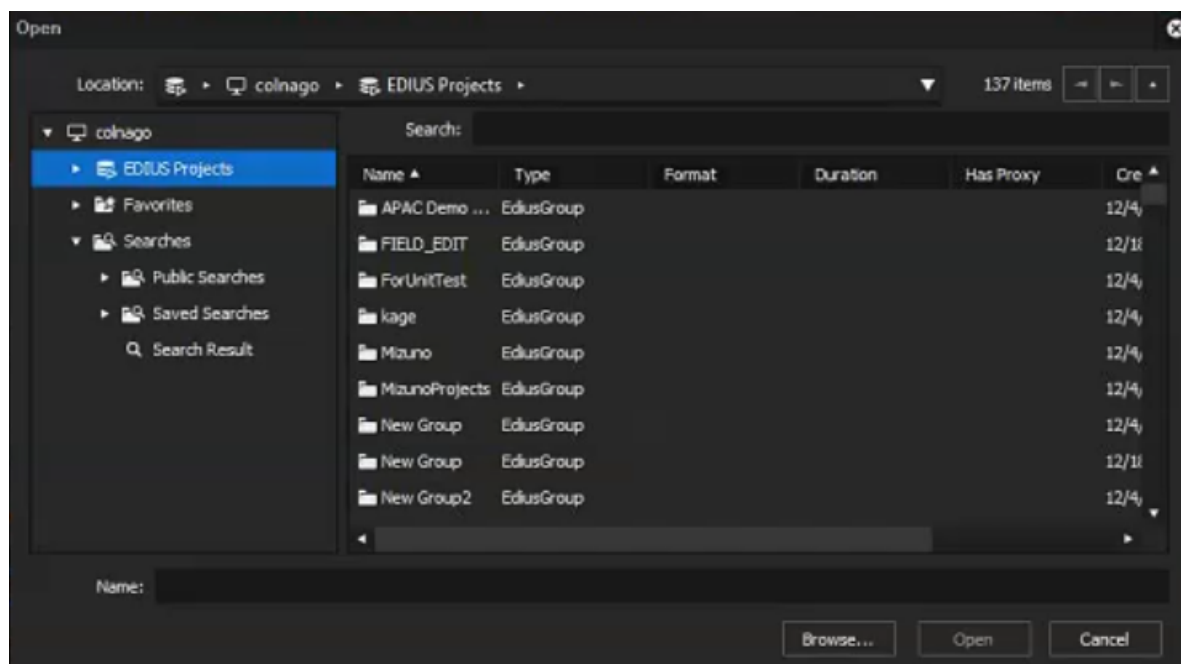


2. Do one of the following:

- Click the **New Project in EDIUS** button. 
- Right-click on the placeholder and select **New Project in EDIUS**.

NOTE: *The sequence is automatically linked to a placeholder if the sequence is launched from the Assignment List panel.*

The Open dialog appears.

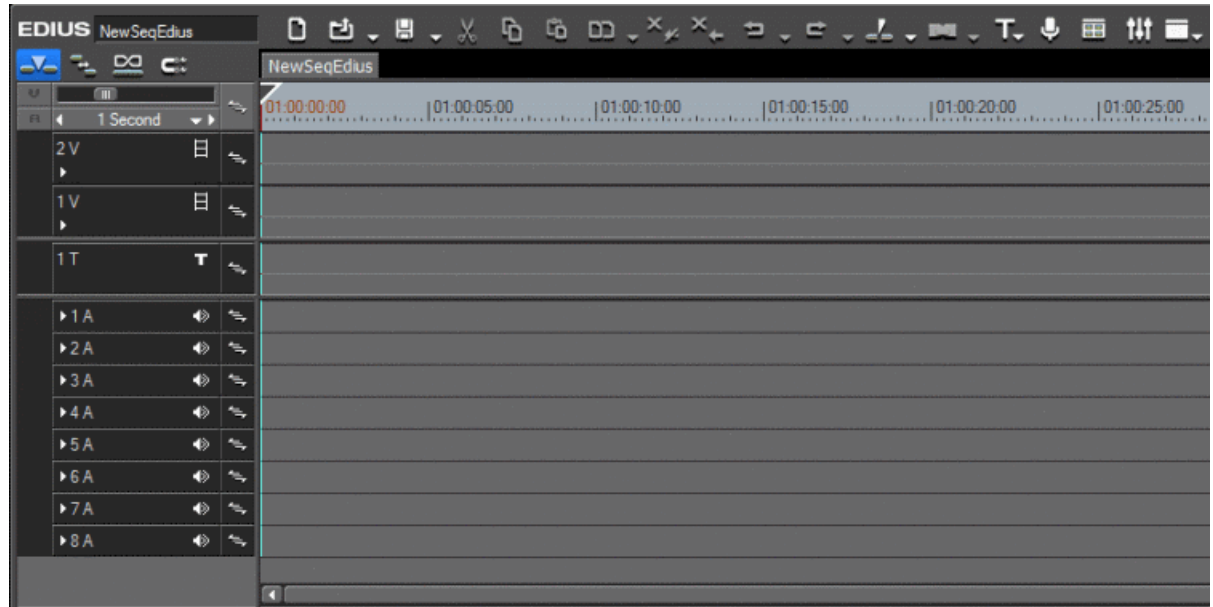


3. Select the project location.

You can also set to other locations as long as the new location is under the default location path in EDIUS settings on the GV STRATUS Control Panel.

4. Enter the project name and click **Open**.

The EDIUS application opens with the new project on the timeline.



After creating the project on the EDIUS timeline, you can add assets to the sequence.

Related Topics

[Adding GV STRATUS assets to EDIUS timeline](#) on page 975

[Sending EDIUS sequences to the K2 system](#) on page 983

Using the GV STRATUS application in a Newsroom Computer System

You can launch the GV STRATUS application as an ActiveX panel within supported MOS compliant Newsroom Computer Systems (NCS) such as ENPS, iNEWS, Octopus, OpenMedia, NIS5, Netia, and Inception. This allows you to use Assignment List, Scheduler, RMI, Inspector, Navigator, Storyboard Editor, Playlist Editor, and other panels to consolidate your entire operation into one workspace.

The Assignment List in the GV STRATUS application lets you create a placeholder for a clip and link it into the accompanying story in the NCS rundown. You can create placeholders and insert them manually into your rundown; or use the auto-create feature, to create and insert placeholders automatically.

If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata. In order to link an event to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

NOTE: *To integrate Inception into the GV STRATUS system, contact Grass Valley Service.*

About Newsroom Basic

The Newsroom Basic license is for journalists that work with the GV STRATUS application as an ActiveX window within a Newsroom Computer System (NCS) application. For this workflow, only the Inspector panel and the Assignment List tool are typically required. The Newsroom Basic license provides this limited functionality as an economical solution. There is no access to the full range of GV STRATUS functionality and tools, as available with other licenses.

If your license type is changed from some other license to the Newsroom Basic license, some of your previously saved workspaces might not be available. Workspaces that contain tools for which the Newsroom Basic license has no access are not allowed. Load the Default Workspace if necessary.

Related Topics

[GV STRATUS roles matrix](#) on page 158

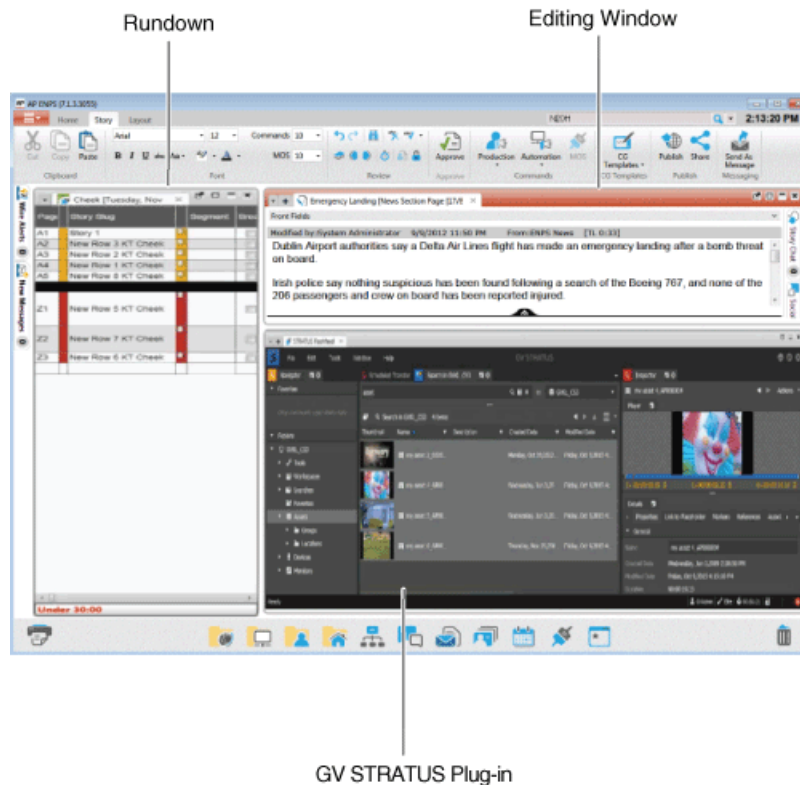
Using GV STRATUS with ENPS

The Assignment List in the GV STRATUS ActiveX panel lets you create a placeholder for a clip and insert it into the accompanying story slug in the ENPS rundown.

You can create placeholders and insert them manually into your rundown; or use the auto-create feature, to create and insert the placeholder automatically.

In addition to the placeholder workflow, GV STRATUS ActiveX panel supports the MOS Newsroom Item workflow with ENPS. Without the need to create placeholders and linking them with assets, you can just drag assets directly from GV STRATUS ActiveX panel and drop them into your ENPS stories. However, both workflows are not supported simultaneously. You must either use the placeholder workflow with Assignment List, or the MOS Newsroom Item workflow at a time.

GV STRATUS also supports the MOS Redirection workflow to transfer media between machines and locations automatically via ENPS. When MOS Redirection is triggered and stories with linked placeholders containing media are moved from one location to another, ENPS automatically transfers the media contained in those stories. This workflow supports automatic transfer of media between servers within a single newsroom, or between multiple newsrooms and servers in separate locations.



Logging on to the GV STRATUS application in ENPS

To successfully log on to the GV STRATUS application in ENPS, you need to run the ENPS client as an administrator when you launch it for the first time.

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. Launch and log on to your ENPS client.

The ENPS application opens.

2. Right-click on the **MOS** icon and select GV STRATUS.

A Log On dialog box opens.

3. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

If you have successfully logged on before, select your user name from the drop-down list.

4. Enter your password.

5. Verify or enter the name of the Control Panel Host for the GV STRATUS Control Panel Service.
In most systems, this is the main GV STRATUS Core server.
6. Click **Log On**.

The application opens.

GV STRATUS features are enabled according to the roles associated with your log on credentials.

When you log on to the application, the settings you make on one PC are available on other PCs when using the same user credentials, including the following:

- Settings from the User Preferences dialog box
- Workspaces
- Channel Panel configurations and Salvos
- Searches

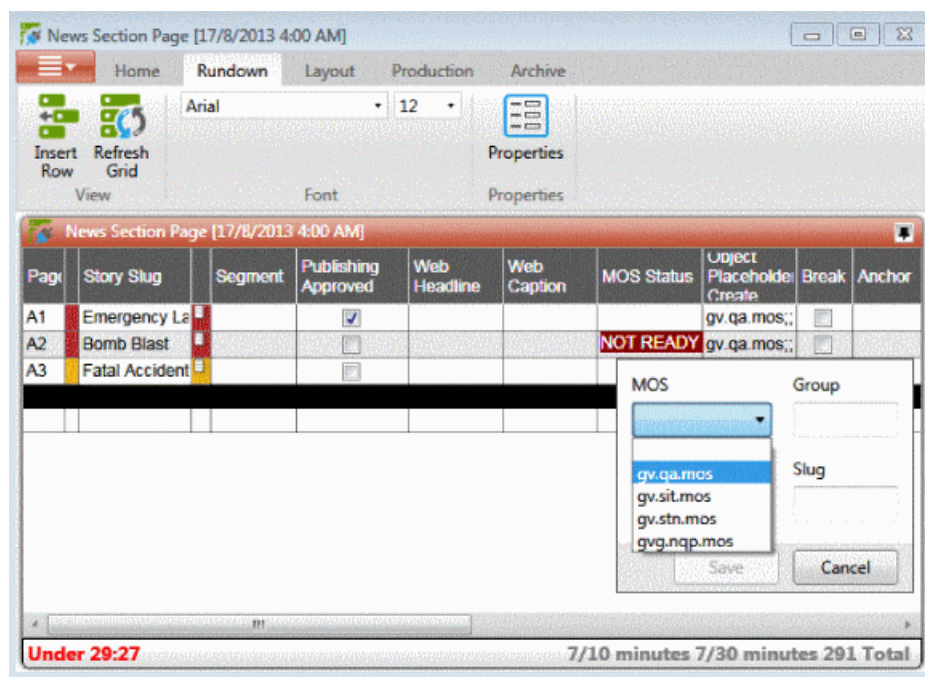
Related Topics

[Logging off of GV STRATUS from within a NCS](#) on page 1099

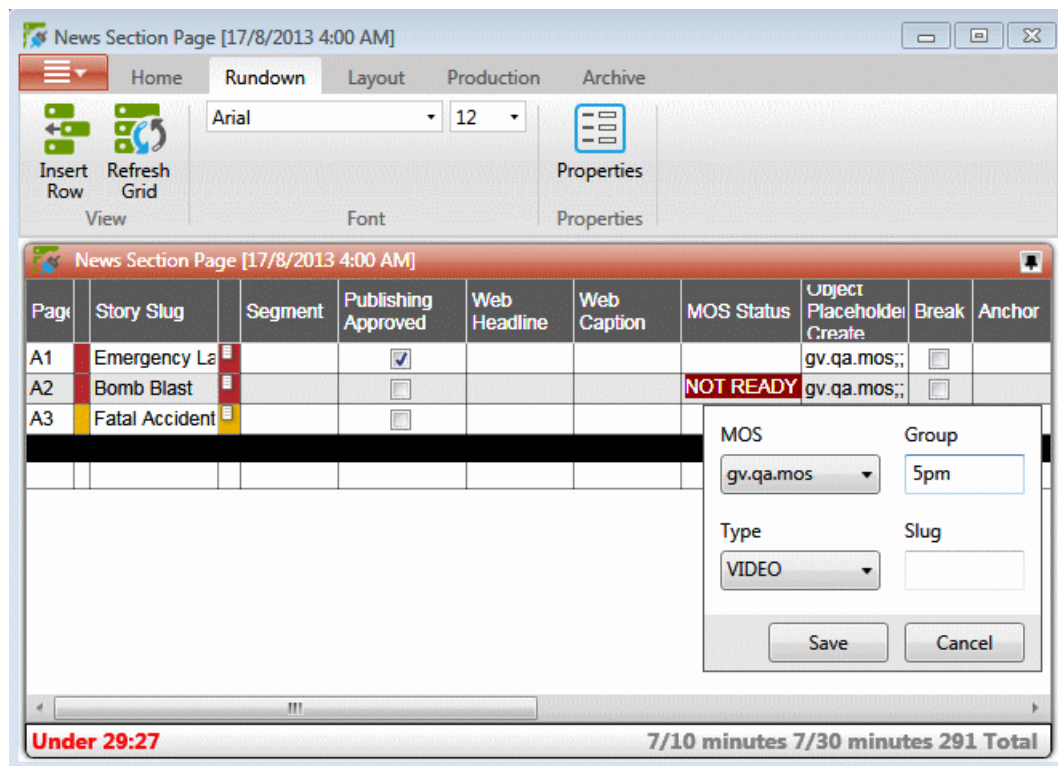
Creating placeholders automatically in ENPS

To link placeholders automatically, you need to enable the Auto Create feature in the ENPS MOS Configuration and add the Auto Create column to your ENPS rundown template.

1. Create a new rundown.
Create a rundown as you normally would. See the ENPS documentation for details.
2. Create a new story slug in ENPS.
3. Click the **Object Placeholder Create** field, and select the MOS from the drop-down list.



4. To assign a category when you create the placeholder, select the Type from the drop-down list, and enter the Group name.



5. Click **Save**.

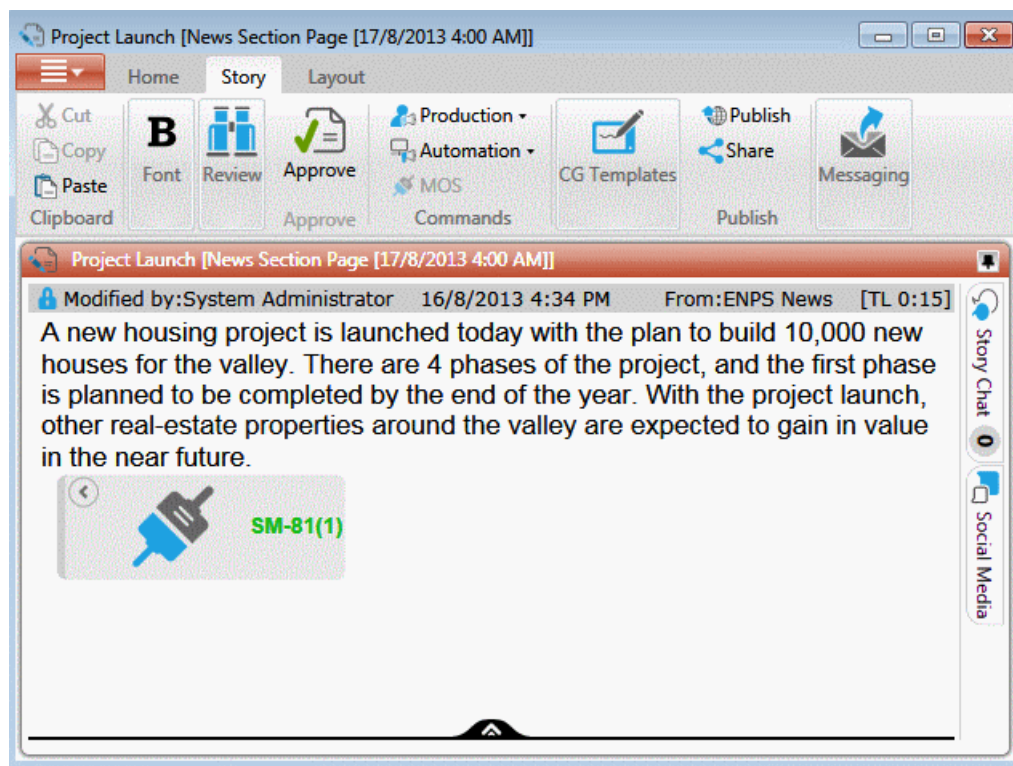
A new placeholder is created in the Assignment List of the GV STRATUS Plug-in and a MOS object is automatically linked and embedded into the script for this story.

Inserting placeholders manually into ENPS

As an alternative to using the ENPS Auto Create feature, you can manually create placeholders and add them to your story scripts.

1. Create a rundown as you normally would. See the ENPS documentation for details.
2. Create a new story in ENPS and open it.
3. Create a new placeholder using the Assignment List panel in the GV STRATUS Plug-in.

4. Drag the new placeholder from the Assignment List panel to the ENPS editing window.



The script within ENPS now shows an embedded MOS Object, which represents the on-air placeholder.

5. Save the script.

The placeholder is added to the ENPS rundown.

NOTE: You can also use this method to add an existing placeholder to your script.

Related Topics

[Adding placeholders](#) on page 1057

Inserting assets as MOS items into ENPS

- The MOS ID must be set in **Applications | Rundown | XMOS** of GV STRATUS Control Panel and ENPS, in **ENPS | System Maintenance | MOS Configuration**.
- The **Asset Drag Content** setting must be set to **MOS Newsroom Item** in the User Preference settings of GV STRATUS application.

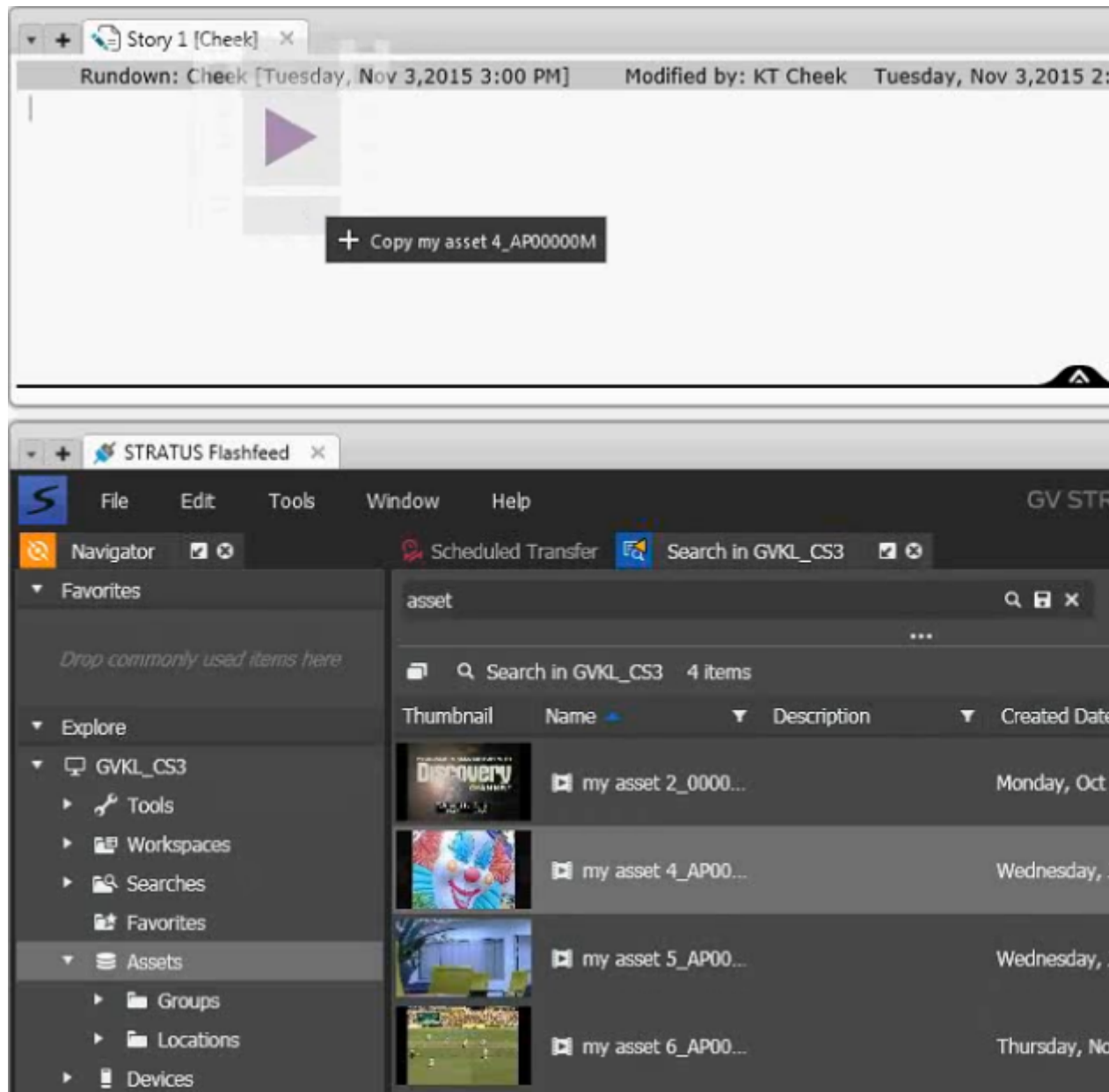
NOTE: Do not change this setting except under the supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

You can now insert GV STRATUS assets directly into your story scripts. If you are using the MOS item workflow, you must not use the linked placeholder workflow in GV STRATUS ActiveX panel at the same time. Both workflows are not supported simultaneously.

1. Create a rundown as you normally would. See the ENPS documentation for details.

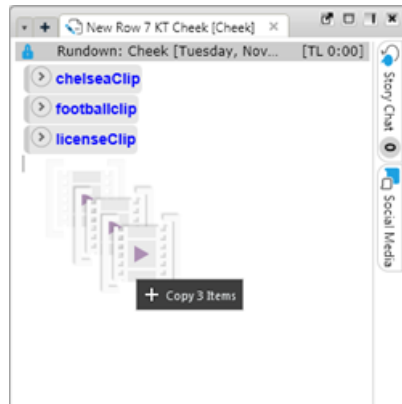
2. Create a new story in ENPS and open it.
3. Launch the GV STRATUS ActiveX panel in ENPS.

4. Drag an asset from the Asset List or Search results window of GV STRATUS ActiveX panel into your ENPS story editing window.



The editing window within ENPS now shows an embedded MOS item, which represents the asset.

You can also drag and drop multiple assets into the ENPS story, if desired.



5. Save the story.
6. To preview the asset, double-click the MOS item.

The asset displays in the Inspector of GV STRATUS ActiveX panel.

You can trim the asset and change asset duration in the Inspector panel. However, you must re-drag the asset and drop it into the ENPS story again to update the duration of the embedded MOS item.

The asset is added as a MOS item in the ENPS story.

: Do not drag assets into ENPS if ALP and/or GV STRATUS Rundown is actively used.

Related Topics

[Configuring User Preference](#) on page 1114

[XMOS Server settings](#) on page 324

[Setting up GV STRATUS in ENPS](#) on page 486

Assigning playout channels to clips in ENPS

1. Click the **MOS Channel** column for the story you want to assign.
2. Enter the channel name in the MOS Channels box and click **OK**.

You must enter the channel label exactly as it was set up in GV STRATUS Rundown.

The story is assigned to that channel and appears on the “Assign” column of the GV STRATUS Rundown application.

Configuring MOS Redirection workflow with ENPS

Using ENPS, you can enable the MOS Redirection workflow to automatically transfer media between different servers and locations.

1. Launch your ENPS client, and open a Rundown.

- 2. Click **Properties** on the ENPS toolbar.
The Edit Properties window opens.

The screenshot shows the 'Edit Properties' window. The title bar is 'Edit Properties'. Below it is a search bar. The main area is divided into two panes. The left pane has a tree view with 'MOS Properties' expanded. The right pane contains various input fields for MOS properties. At the bottom are 'Save', 'Cancel', and 'Apply' buttons.

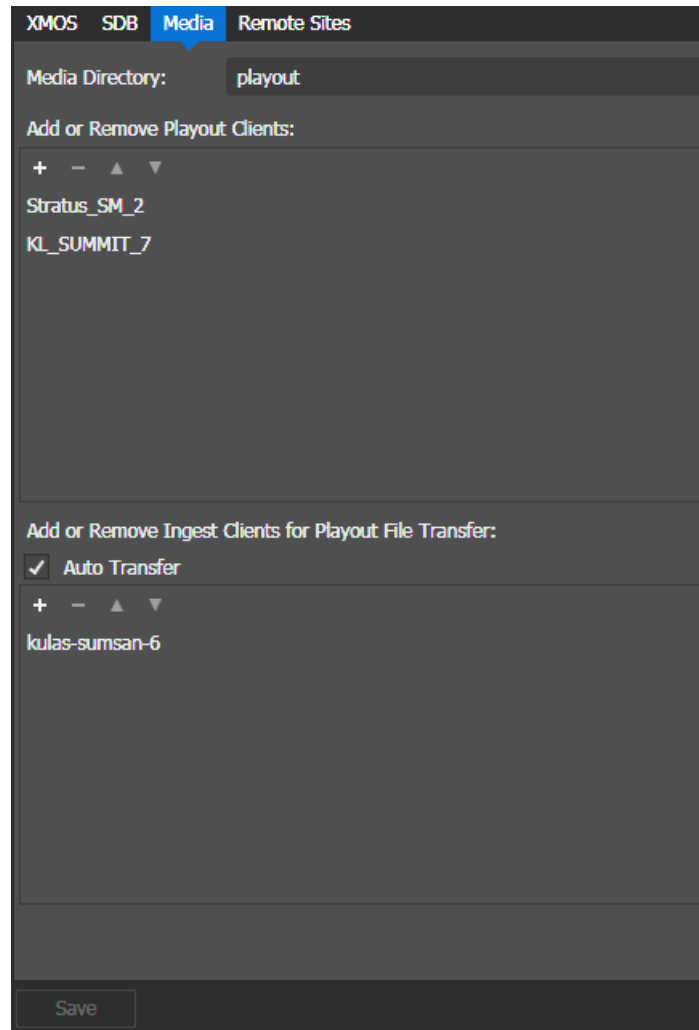
Program Name	
[Empty field]	
▼ MOS Properties	
MOS Editorial Start	1/19/2017 4:00:00 PM
MOS Editorial Duration	00:30:00
Add MOS Durations	[Dropdown menu]
MOS Status	READY
MOS Status Time	19-Jan-17 11:46:39 PM
Last Status MOS	gv.qa.mos
MOS Redirection	gv=gv.qa2.mos
MOS Channel	[Empty field]
MOS Allow	gv.qa.mos gv.qa2.mos
MOS Block	[Dropdown menu]
Allow External Modification	<input type="checkbox"/>

- 3. On the MOS Properties section, configure as follows:

MOS Redirection	Enter the following: gv=MOS ID of destination system (e.g., gv=gv.qa2.mos) <i>NOTE: The setting must only be configured in lower case letters.</i>
MOS Allow	Enter MOS IDs of both origin and destination systems.

- 4. Click **Apply**, and **Save** to close the window.

5. Launch the GV STRATUS Control Panel and click **Applications | Rundown | Media**.



6. Select the **Auto Transfer** check box.
7. Click the **+** button to add destination servers for Playout File Transfer.
The **Add Ingest Server** dialog opens.
8. Configure K2 server settings for the destination system and click **OK**.
9. Click **Save** to save the configuration.

When MOS Redirection is triggered and stories with linked placeholders containing media are moved from one location to another, ENPS automatically transfers the media contained in those stories. This workflow supports automatic transfer of media between servers within a single newsroom, or between multiple newsrooms and servers in different locations. For stories with unlinked placeholders, only the placeholder gets created at the other location.

Related Topics

[Rundown Add/Modify Server settings](#) on page 328

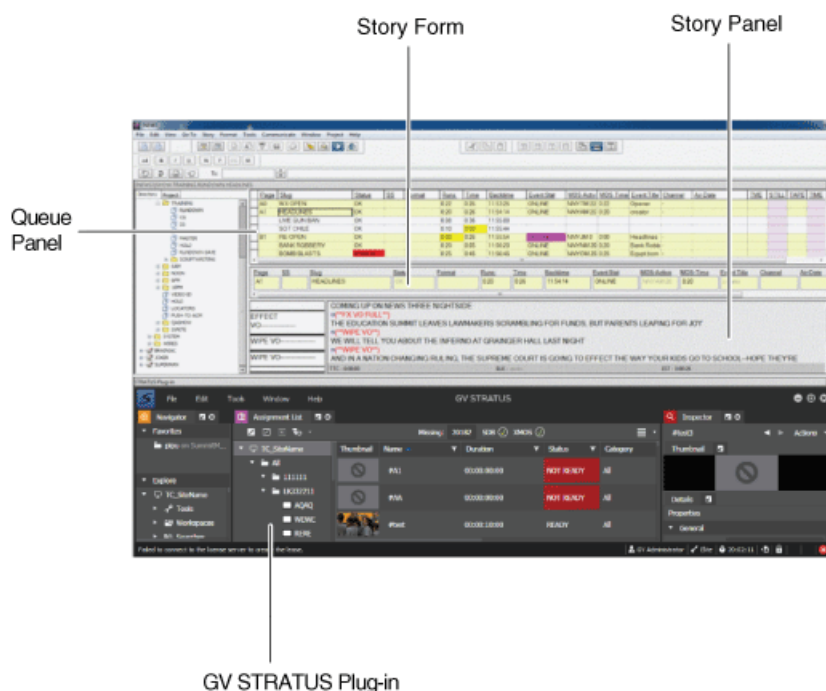
Using GV STRATUS with iNEWS

The Assignment List in the GV STRATUS ActiveX panel allows you to create placeholders for clips and link them to the accompanying story slug in the iNEWS rundown.

With the GV STRATUS panel available within iNEWS, you can easily insert placeholders into your story via drag and drop, and assign playout channels to clips.

To launch the panel, select **Tools | Plugins | STRATUS Plug-in**.

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.



Related Topics

[Logging on](#) on page 764

[Logging off of GV STRATUS from within a NCS](#) on page 1099

Creating placeholders automatically in iNEWS

You can create stories, insert placeholders into those stories, and the placeholders are automatically populated into the Assignment List of GV STRATUS.

1. Create a new rundown.

Create a rundown as you normally would. See the iNEWS documentation for details.

2. Create a new story in your rundown.

The Story panel opens.

Page	TME	Slug	TAPE	Embargo	Format	Runs	Time
		Accident		<input type="checkbox"/>		0:00	0:00

3. Enter the title of the story in the Slug property field.
4. Right-click on any text property field and select **Insert Placeholder**.

The **Create MOS Object Placeholder** dialog box opens.

Create MOS Object Placeholder

Device:

Title: Accident

Description:

OK Cancel

5. Select your **MOS ID** from the **Device** drop-down list.
6. Click **OK**.

The **Event Stat** column of the story shows the status as **OFFLINE**.

A placeholder is automatically created with the same name as the story in the Assignment List of GV STRATUS.

If an asset is linked to the placeholder, the **Event Stat** column of the story will change to **ONLINE**.

Creating and linking placeholders manually in iNEWS

1. Create a new rundown.

Create a rundown as you normally would. See the iNEWS documentation for details.

2. Create a new story in iNEWS.

3. Create a new placeholder in the Assignment List panel of the GV STRATUS Plug-in.
4. Verify that the new story slug is highlighted in the Queue Panel, then drag the new placeholder from the Assignment List and drop it into the Story Form window.

NOTE: *You can also use this method to add an existing placeholder to your story.*

5. Click on a different line in the Queue Panel to save your changes.

The placeholder links with the story and the clip name displays in the iNEWS Queue Panel.

Related Topics

[Adding placeholders](#) on page 1057

Assigning playout channels to clips in iNEWS

1. Select the slug you want to assign and right-click the **Ch** box.
2. Choose **Assign Channel**.
3. Enter the channel name and click **OK**.

You must enter the channel label exactly as it was set up in GV STRATUS Rundown.

4. Save the slug.

The story is assigned to that channel and appears in the GV STRATUS Rundown application in the “Assign” column.

Setting embargo status to stories in iNEWS

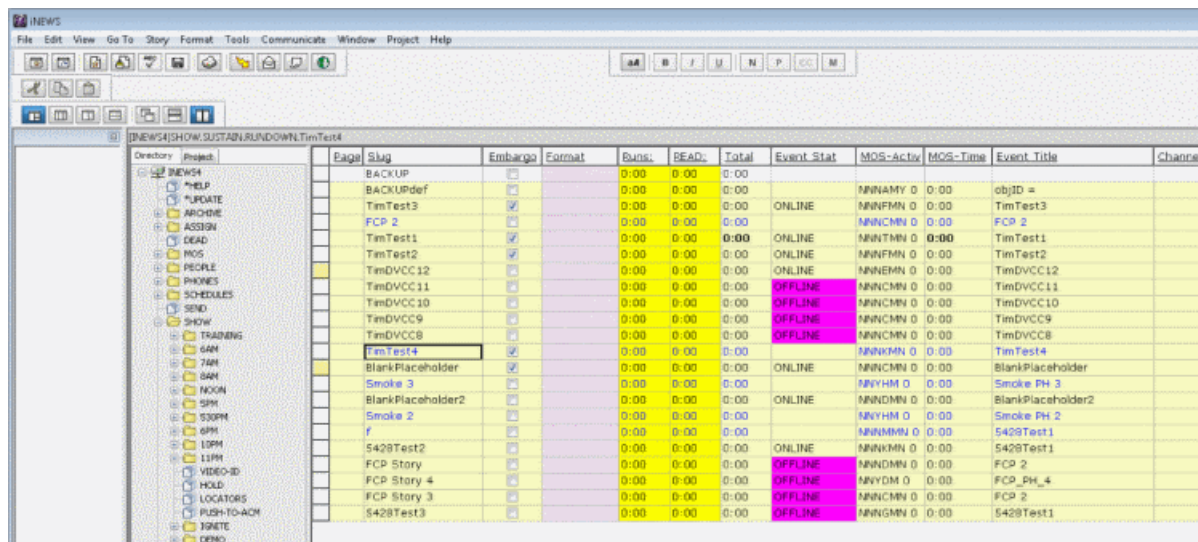
Prerequisites:

- The GPIO connection is configured between the GV STRATUS Rundown client, switcher, and streaming encoder.
- The General Purpose Output is configured for the Embargo status in the **Tools | Options | GPIO Configuration** of the GV STRATUS Rundown application.
- The **Embargo** column is configured in the iNEWS application.

Embargo status can be set to specific stories in iNEWS to prevent automatic broadcast via the internet. This is due to restrictions from news providers that some media contents are only for televised broadcasts.

1. Create a new story in iNEWS.
2. Drag a ready placeholder from the Assignment List of the GV STRATUS panel to the Story Form window.

3. Select the checkbox in the **Embargo** column for the story.



4. Click on a different line in the Queue Panel to save your changes.

When the clip is cued in the GV STRATUS Rundown channel, the **Embargo** status is sampled. Then, the embargo GPO is set to high when the clip is played.

After the **Embargo** GPO is triggered, the streaming encoder prevents the clip's broadcast via the internet. All other contents without the **Embargo** status are automatically uploaded to the news station's website.

Related Topics

[Configuring General Purpose Input and Output](#) on page 1172

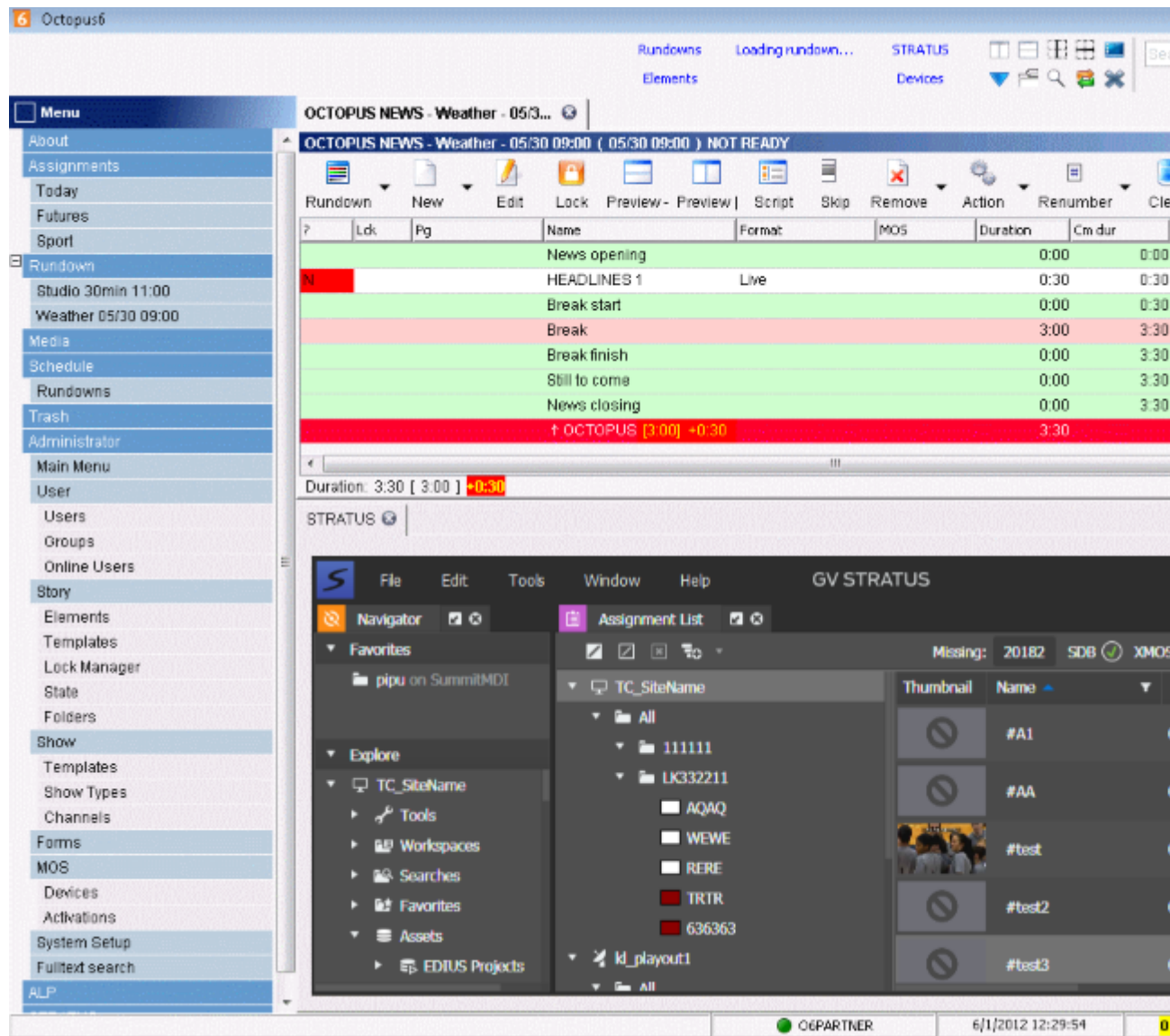
Using GV STRATUS with Octopus

The GV STRATUS ActiveX panel lets you create placeholders for clips and insert them into the accompanying story slug in the Octopus rundown.

You can create the placeholders and insert them manually into your rundown or use the auto-create feature to create and insert the placeholder automatically.

To launch the GV STRATUS panel within Octopus, click **STRATUS** on the toolbar.

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.



Related Topics

[Logging on](#) on page 764

[Logging off of GV STRATUS from within a NCS](#) on page 1099

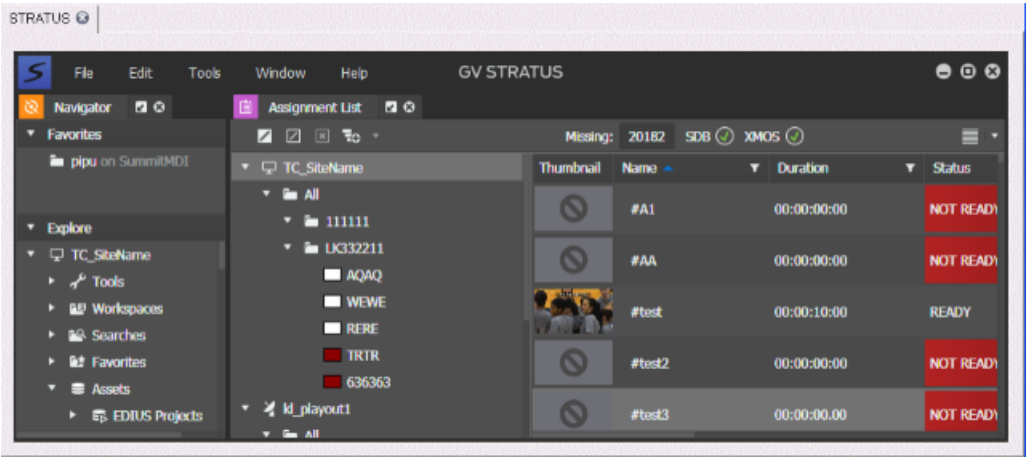
Creating placeholders automatically in Octopus

With Octopus, you can create placeholders automatically using the Auto-create feature.

1. Create a new story in Octopus.
2. Open the story.
3. Click the **Edit** button on the toolbar.
4. Right-click on the **NOT READY** status, select **MOS | Auto Create on [the name of your MOS]**.

- 5. Click the **Save** button on the toolbar.
- 6. Launch the GV STRATUS ActiveX Plug-in.

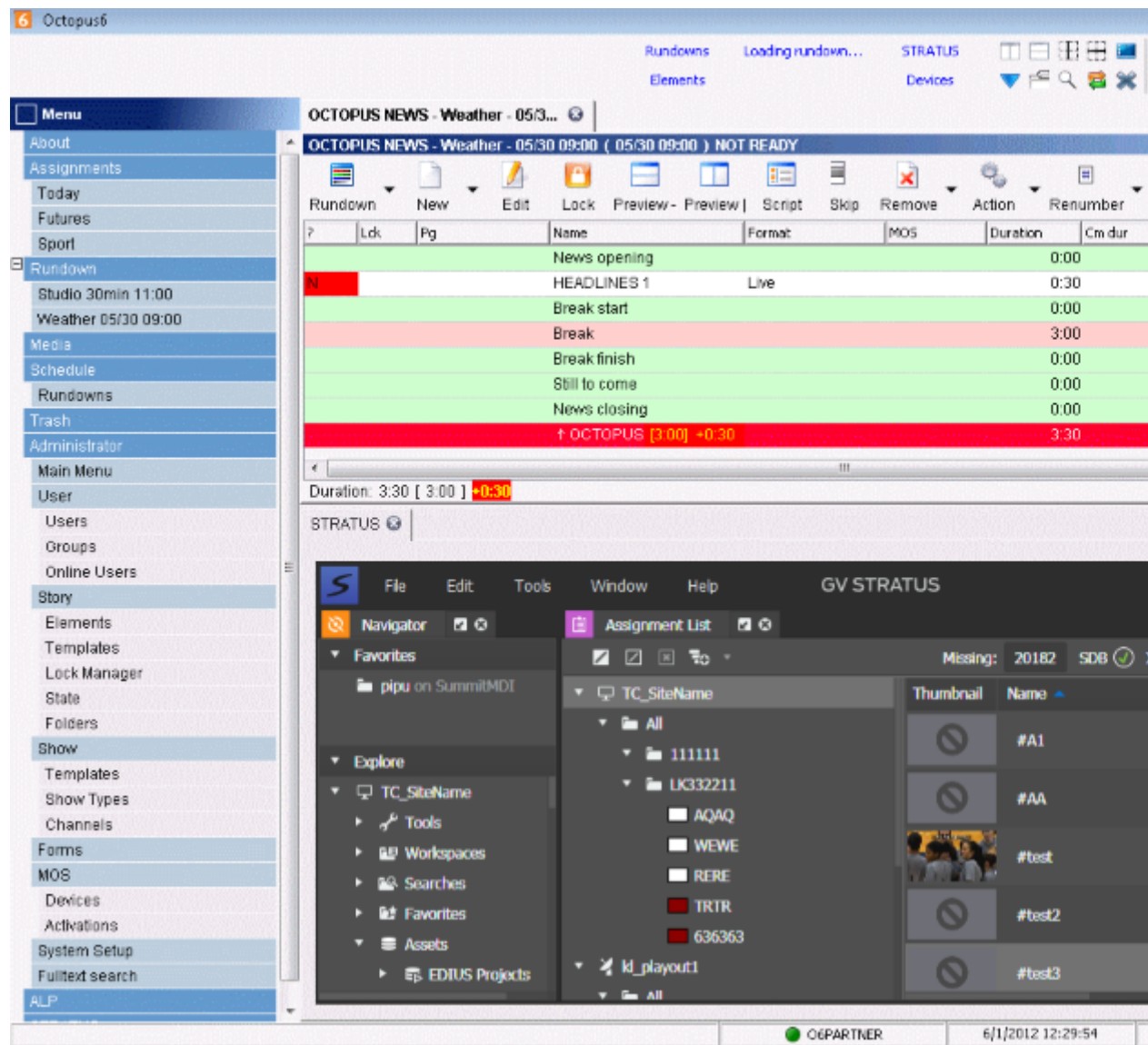
The newly created placeholder appears on the Assignment List of GV STRATUS ActiveX Plug-in.



Inserting placeholders manually in Octopus

With Octopus, you can manually create placeholders and insert them into the Assignment List of GV STRATUS ActiveX Plug-in.

1. Split the Octopus window so you can see the Rundown View and the GV STRATUS ActiveX Plug-in.



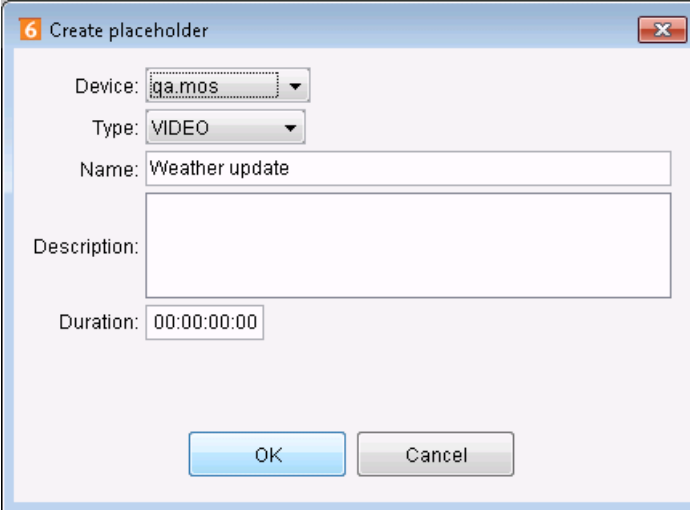
2. Double-click the story that you want to insert a placeholder into.

The story displays on the Octopus.

3. Click the **Edit** button on the toolbar.

4. Right click on the **NOT READY** status, select **MOS | Create on [the name of your MOS]**.

The create placeholder dialog box displays.



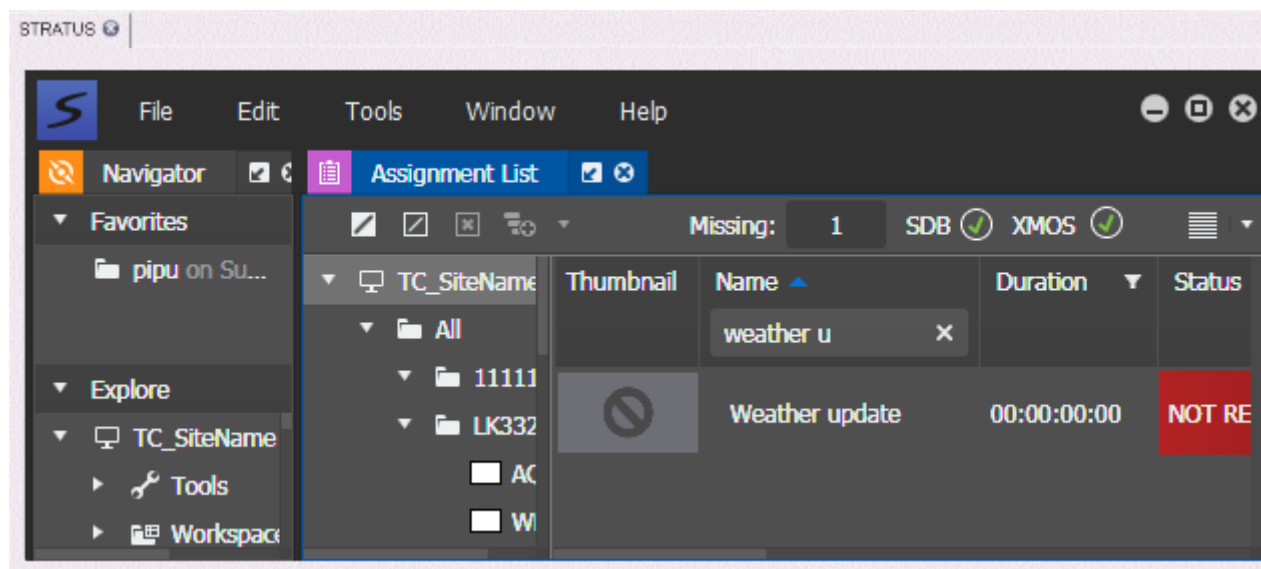
The image shows a 'Create placeholder' dialog box with the following fields and controls:

- Device:** A dropdown menu with 'ga.mos' selected.
- Type:** A dropdown menu with 'VIDEO' selected.
- Name:** A text input field containing 'Weather update'.
- Description:** A large, empty text area.
- Duration:** A time input field showing '00:00:00:00'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

5. Select your MOS for the Device and select **VIDEO** for the Type.
6. Enter the name and duration of the placeholder.
Enter the description, if desired.
7. Click **OK**.

- Click the **Save** button on the toolbar.

The placeholder appears on the Assignment List of GV STRATUS ActiveX Plug-in.



Related Topics

[Adding placeholders](#) on page 1057

Linking clips manually in Octopus

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can also link placeholders from the GV STRATUS ActiveX Plug-in and insert clips into your rundown manually.

- Open the story that you want to link clips into.

The story displays on the Octopus.

- Click the **Edit** button on the toolbar.
- Right click on the **NOT READY** status, select **Launch STRATUS**.

The GV STRATUS ActiveX Plug-in displays.

NOTE: *Launching multiple GV STRATUS ActiveX Plug-ins might cause the first launched window to be blank. Click anywhere on the blank window to refocus the display of GV STRATUS ActiveX Plug-in.*

- Select a placeholder on the Assignment List of GV STRATUS ActiveX Plug-in, and click **Use** on the Octopus story.

- Click the **Save** button on the toolbar.

The placeholder links with the story.

- On the GV STRATUS ActiveX Plug-in, select an asset and link it to the placeholder.


The clip links to the story in Octopus. You can see the Clip ID in the Octopus story is the same as the Clip ID in the Assignment List of GV STRATUS ActiveX Plug-in.

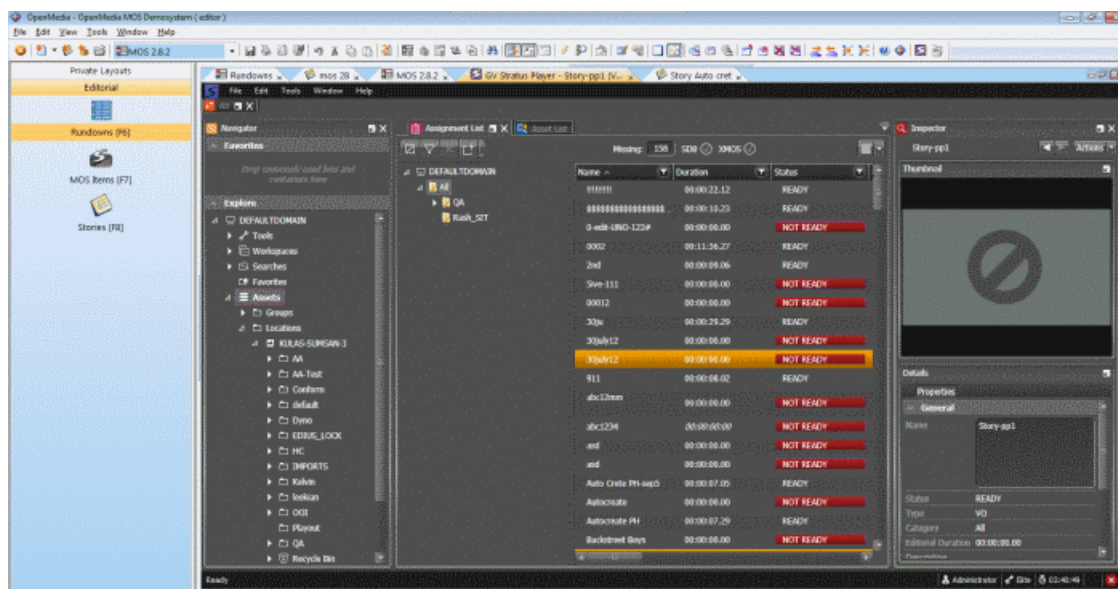
Using GV STRATUS with OpenMedia

The GV STRATUS ActiveX panel lets you create placeholders for clips and insert them into the accompanying story slug in the OpenMedia rundown.

You can create the placeholders and insert them manually into your rundown or use the auto-create feature to create and insert the placeholder automatically.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

To launch the GV STRATUS panel within OpenMedia, click the **GV STRATUS** button  on the toolbar.





Related Topics

[Logging on](#) on page 764

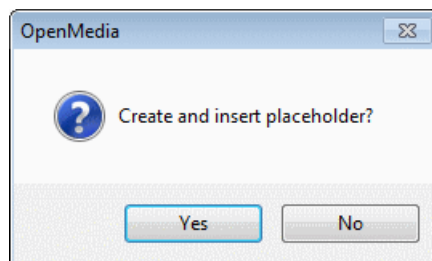
[Logging off of GV STRATUS from within a NCS](#) on page 1099

Creating placeholders automatically in OpenMedia

You can create placeholders in OpenMedia and they are automatically populated into the Assignment List of GV STRATUS.

1. Create a new rundown. Create a rundown as you normally would. See the OpenMedia documentation for details.
2. Create a new story in your rundown.
3. Double-click the  icon on your rundown to open the new story.
4. Click the **Create Placeholder** button  on the toolbar of the story.

A dialog box opens for you to confirm the placeholder creation.




5. Click **Yes**.

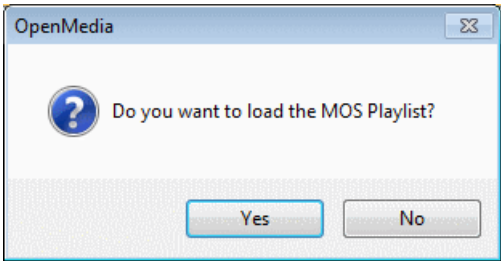
A placeholder is created with the same name as the story.



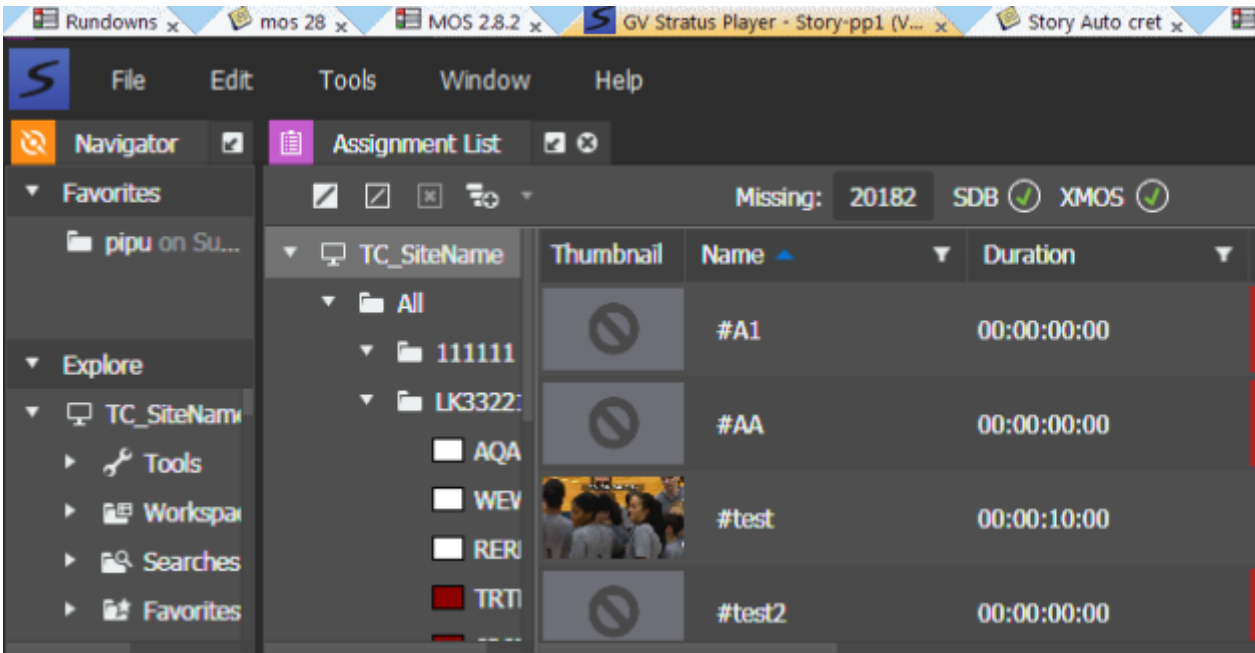
Loading rundowns in OpenMedia

You can view the newly created placeholder in the GV STRATUS Plug-in by loading your rundown.

1. In OpenMedia, go to your rundown and click the **Load MOS Playlist** button  on the toolbar.
A dialog box opens for you to confirm the load of MOS playlist.




2. Click **Yes**.
The rundown appears on the Assignment List of GV STRATUS Plug-in.



Inserting placeholders manually in OpenMedia

You can create placeholders and add them manually into your story in OpenMedia.

1. Double-click the  icon on your rundown to open your story.
2. Create a new placeholder using the Assignment List in the GV STRATUS panel.

3. Drag the new placeholder from the GV STRATUS panel and drop it into your story.

The placeholder is added to the story.

NOTE: *You can also use this step to add existing placeholders to your story.*

4. Click **Save**.

Related Topics

[Adding placeholders](#) on page 1057

Linking and sending assets for playback in OpenMedia

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can link an asset to your placeholder, and send it to the playout server with GV STRATUS panel in OpenMedia.

1. Select an asset in the Asset List of the GV STRATUS panel.
2. Right-click on the asset and select **Send**. (ⓧ F11)

The Send Destinations dialog appears.

3. Click a check box to select the send destination.
4. In the **Link To Placeholder** tab, select the placeholder that you inserted in the OpenMedia story.
5. If you have adequate permissions, click **Security** and configure security options as desired, then click **OK**.

The **Security** dialog box is available only if you have the role of Security Manager or you are the Owner.

6. Click **Send**.

The asset links to your placeholder and copies into your selected destination.

The placeholder status changed to **READY**, and the duration is updated in the Assignment List of the GV STRATUS panel and in the rundown of OpenMedia.

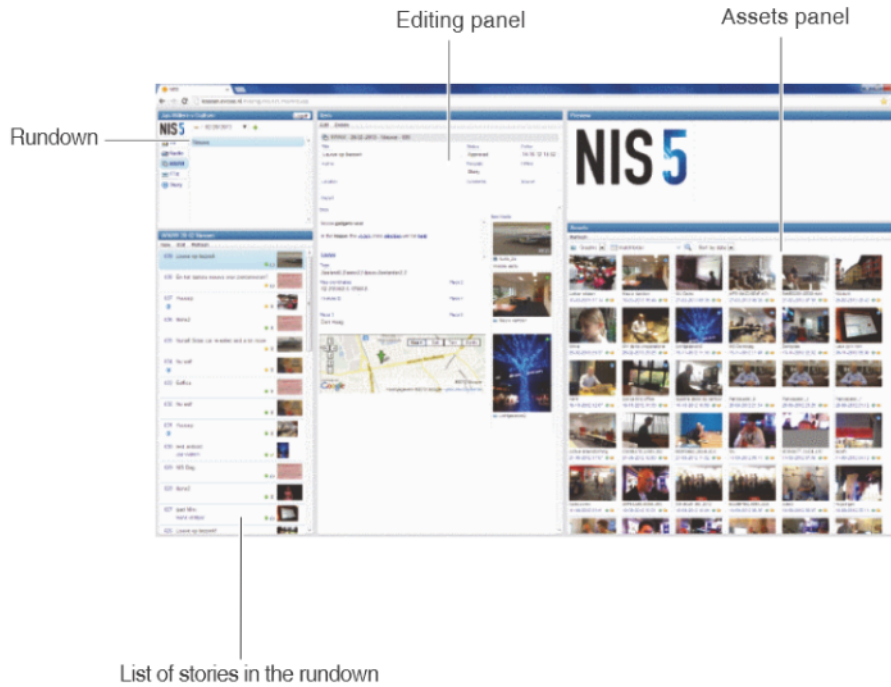
Using GV STRATUS with NIS5

The NIS5 (Newsroom Information System) web client allows you to create stories, placeholders, and link placeholders with clips in the GV STRATUS application.

You can create and insert placeholders automatically into your story in the NIS5 web client, or you can insert placeholders manually into your story via drag and drop from the GV STRATUS application.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

The NIS5 workflow with GV STRATUS application is only supported via the Google Chrome™ web browser.



Creating placeholders automatically in NIS5

You can create stories, insert placeholders into those stories, and the placeholders are automatically populated into the Assignment List of GV STRATUS application.

1. Create a new rundown.

Create a rundown as you normally would. See the NIS5 documentation for details.

2. Click **New** to create a new story in your rundown.

3. Select one of the following for the location of your story in the rundown:

- Insert before
- Insert after

The story appears in the list of stories in the rundown and in the Editing panel.

4. Enter the Title, Author, Location, and Presentation text of the story.

The status of the story is **Temporary** by default. You can change the status of the story if desired.

5. To create a placeholder, click the **New media placeholder** button.

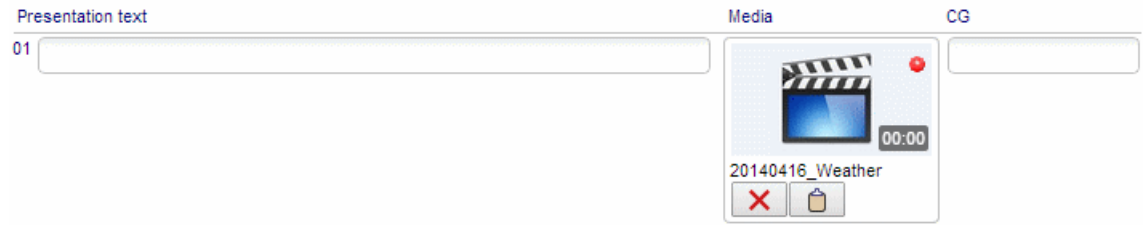
The Assets panel loads the placeholder properties.

The title of the placeholder is set to rundown and story name by default. However, you can still rename the placeholder if desired.

6. Click **Save** to save the placeholder.

The placeholder appears in the Assets panel of the NIS5 web client.

7. Drag the placeholder from the Assets panel and drop it into the **Media** column of your story.



The red dot indicates the status of the placeholder as **NOT READY**.

8. Click **Save** to save the story.

The placeholder created in the NIS5 web client is automatically populated in the Assignment List of GV STRATUS application.

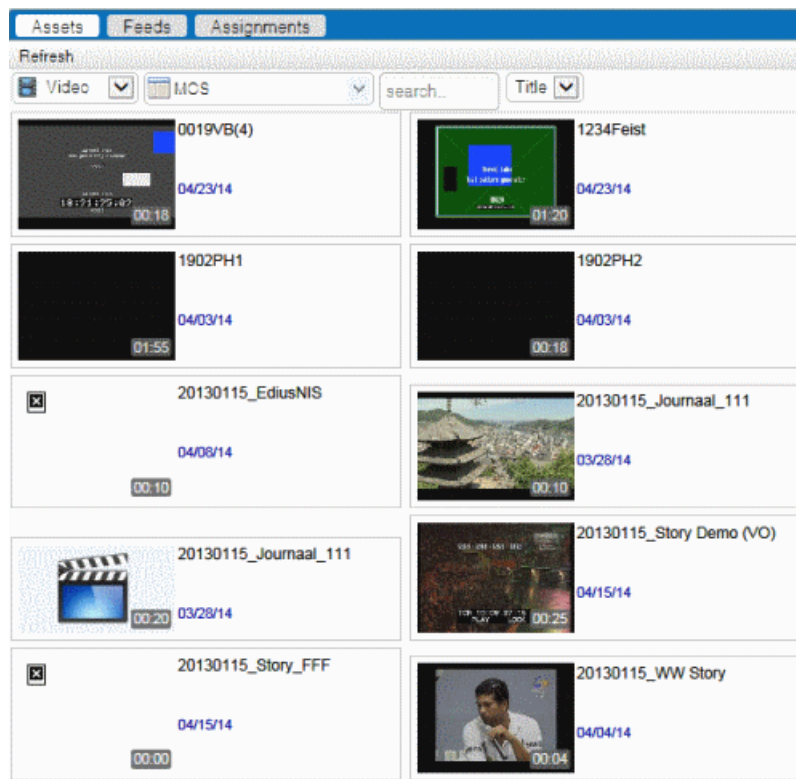
If an asset is linked to the placeholder in GV STRATUS application, the red dot on the story turns to green to indicate the placeholder status as **READY**. The story duration is also updated after an asset is linked to the placeholder in the story.



Inserting placeholders manually in NIS5

1. Create a new placeholder in the Assignment List panel of the GV STRATUS application.
You can also use an existing placeholder in the Assignment List if desired.

- In the Assets panel of the NIS5 web client, select **Video** and **MOS** from the drop-down lists.



All placeholders from the Assignment List in GV STRATUS application appear in the Assets panel of the NIS5 web client.

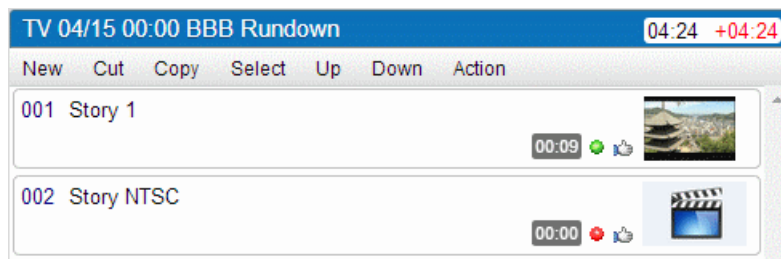
- Open a story in the Editing panel of the NIS5 web client.
- Drag a placeholder from the Assets panel and drop it into the **Media** column of your story.

The placeholder is inserted into the story.



- Click **Save** to save the story.

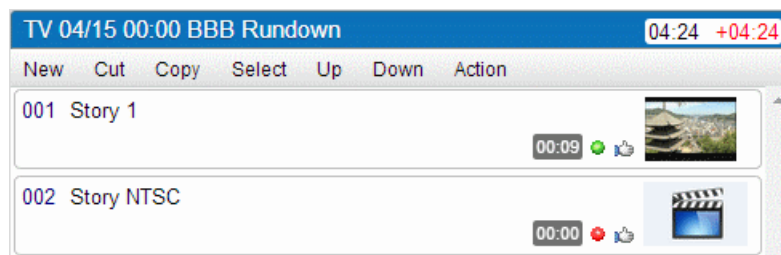
If an asset is linked to the placeholder in GV STRATUS application, the red dot on the story turns to green to indicate the placeholder status as **READY**. The story duration is also updated after an asset is linked to the placeholder in the story.



Viewing GV STRATUS assets in NIS5

You can view GV STRATUS assets that have been linked to your stories in the NIS5 web client.

1. Open your rundown to view the list of stories in the rundown.



2. Click on a story that is linked to a **READY** placeholder.

The story opens.



- Click on the asset in the **Media** column.

The asset displays in the **Preview** panel.



- Click the **Play** button to view the asset.

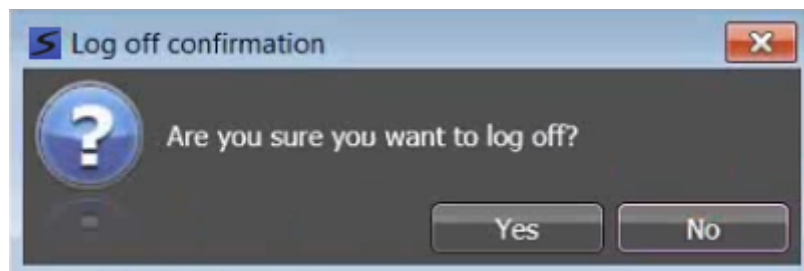
Navigate through the asset using the appropriate transport controls.

Logging off of GV STRATUS from within a NCS

When using GV STRATUS within ENPS, iNEWS, Octopus, and OpenMedia Newsroom Computer System applications, you can log off of GV STRATUS and log back on as a different user without shutting down the NCS application.

- On the GV STRATUS ActiveX panel, select **File | Log Off**.

The **Log off confirmation** dialog box opens.



- Click **Yes**.

The GV STRATUS ActiveX panel displays **Logging off GV STRATUS ActiveX control**.

Then the **Log on to GV STRATUS** dialog box displays.

- Enter the user credential if you want to log on as another user.

Related Topics

[Logging on](#) on page 764

Using the GV STRATUS application in GV STRATUS Rundown

You can launch the GV STRATUS application as an ActiveX panel within the GV STRATUS Rundown application. This allows you to use all GV STRATUS tools and GV STRATUS Rundown to consolidate your entire operation including playback into one workspace.

With GV STRATUS within the GV STRATUS Rundown application, you can easily drag clips from Asset List into GV STRATUS Rundown's playlist. In addition, the Assignment List lets you create a placeholder for a clip and link it into the accompanying story in the NCS rundown. You can also assign channels for clips via the NCS for playback.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

To launch the GV STRATUS panel within GV STRATUS Rundown, click **View** and select **STRATUS**.



Inserting placeholders from GV STRATUS

You can create placeholders in the GV STRATUS ActiveX plugin and insert them automatically into the playlist or any channels of GV STRATUS Rundown.

1. Select a placeholder from the Assignment List panel in the GV STRATUS ActiveX workspace.
2. Drag and drop the placeholder into GV STRATUS Rundown's playlist or channel.

The placeholder appears in the playlist or channel.

Linking clips automatically from GV STRATUS

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can automatically create placeholders and link them when you drag and drop assets into the playlist.

1. Create a new playlist in the GV STRATUS Rundown application.
2. Select a clip from the Asset List in the GV STRATUS ActiveX Plug-in.
3. Drag and drop the clip into GV STRATUS Rundown's playlist.

The clip is linked to a placeholder that is automatically generated in the Assignment List of GV STRATUS ActiveX Plug-in.

4. Click **Save** to save the playlist.

Integrating assets with traffic system and K2 Edge**Integration with traffic system and playout automation**

Integration of assets with the traffic system and playout automation provides a seamless operation from program scheduling, segmentation of assets, insertion of commercials into the daily playlist, right up to automated broadcast. The integration workflow includes a traffic system, the GV STRATUS application, and K2 Edge for playout automation. The traffic system is responsible for scheduling daily broadcasts, while K2 Edge automates the play-to-air operation according to the traffic system's playlist.

In the GV STRATUS application, the Segmentation tool allows users to create multiple segments of an asset so that commercials can be inserted in between those segments. In the House Number list, assets are linked to house numbers and thus associated with programs on the traffic system's playlist.

The communication between the GV STRATUS application and the traffic system is via the Broadcast Exchange Format (BXF) files. The traffic system sends the list of programs and house numbers in BXF files that are dropped into the traffic watch folder. The location of the traffic watch folder must be configured in the GV STRATUS Control Panel application.

The GV STRATUS application processes those BXF files and populates house numbers automatically into the House Number List. This processing is not affected by GV STRATUS security access permissions. After assets are linked to house numbers in the House Number List, the GV STRATUS application creates another set of BXF files and sends them to the traffic system to reconcile information with the previous playlist. The traffic system's completed playlist now includes segmentation information, house numbers, duration, and asset IDs.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions

must be set to **Allow** in order to create, update, or delete markers and segments. For example, House Numbers are hidden if Read access is not granted on the linked asset.

For playback, the traffic system sends the completed playlist to K2 Edge for automated playout. The K2 Edge identifies assets from the playlist and initiates FTP transfer of assets in preparation for the broadcast. In the K2 Edge system, the Cobalt Playout Control (POC) application automates the play-to-air operation.

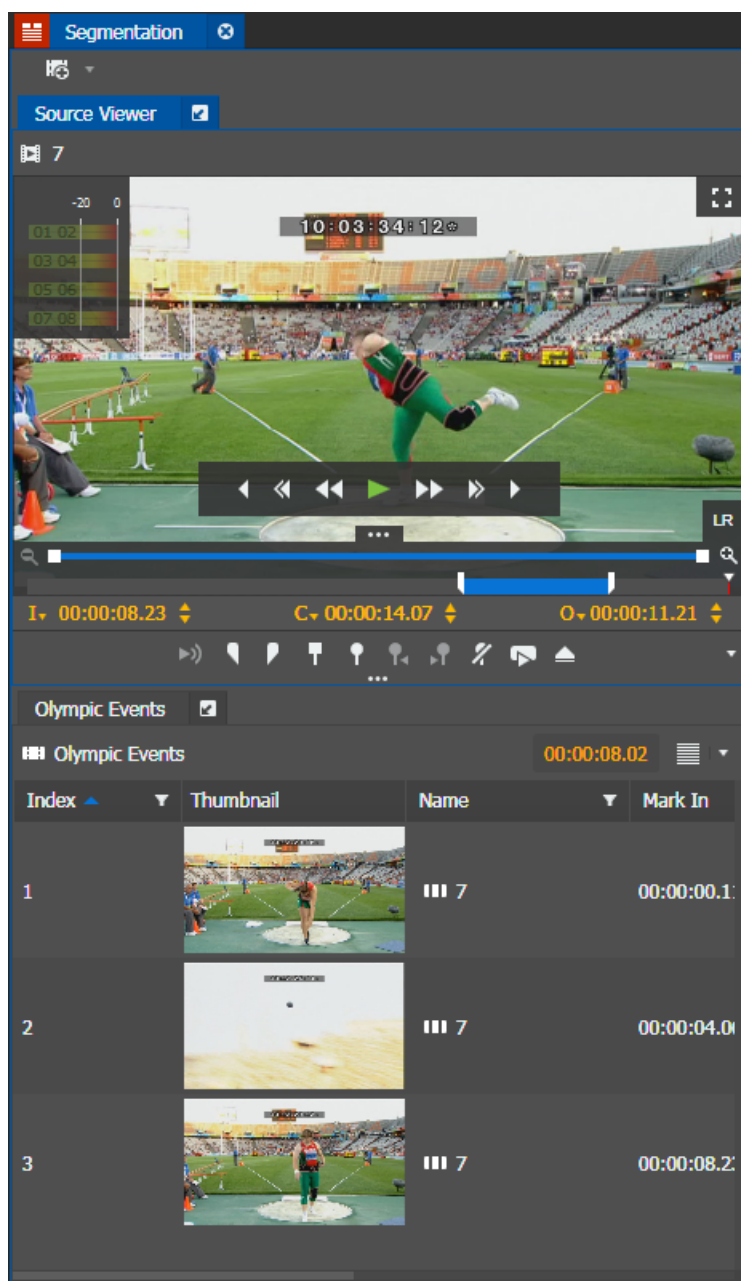
Refer to the traffic system customer documentation and "Cobalt User Manual" for more information regarding their workflows.

The Segmentation tool

The Segmentation tool allows you to assign an asset into multiple segments for insertion of commercials in between segments, and creation of diverse segments of an asset for different broadcast times. You can easily create several Segmentation panels in the tool to create multiple types of segments to suit your broadcast schedule.

The Segmentation tool displays as a composite panel in the GV STRATUS application. It includes the Source Viewer, and Segmentation panel(s).

You can create segments only if you have the Segmentation role.




Segmentation tool features are as follows:

- Source Viewer — Loads assets to be previewed.
- Segmentation Panel — Displays the list of segments of the asset.
- Toolbar — Consists of the button to create new segmentation panel.
- Index — Consists of incrementing numbers for segments. The index number increases whenever each segment is created.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Segmentation Panel button

This button located on the Segmentation Tool lets you perform the function below.

 **New Segmentation:** Creates a new segmentation panel.

Adding a Segmentation panel

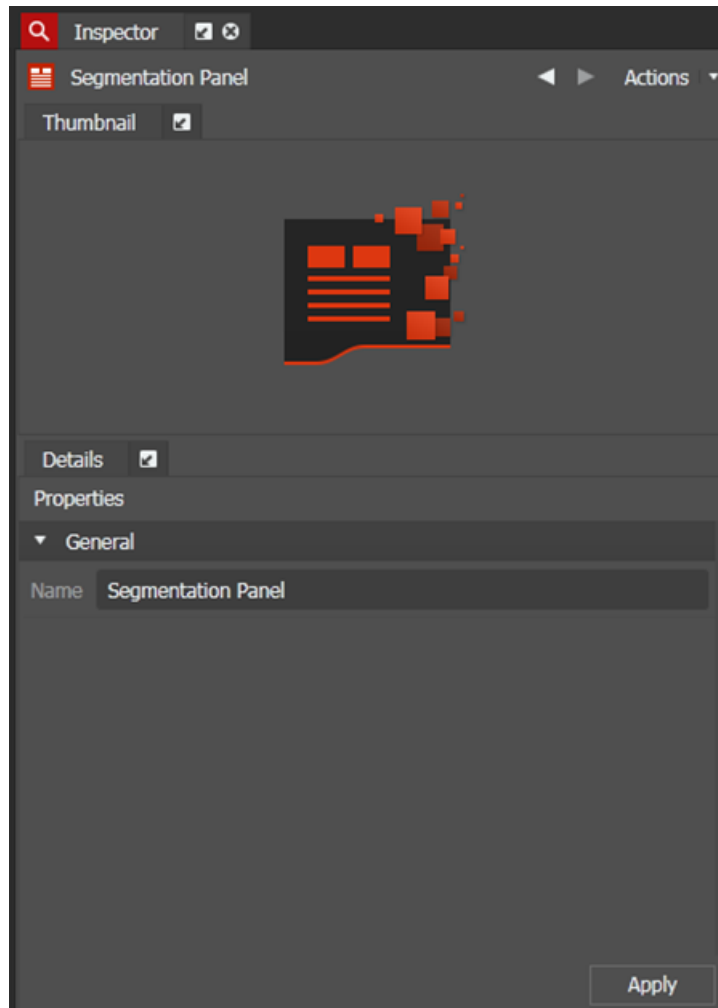
You can create and add segmentation panels to accommodate different kinds of asset segmentation in your operation.

1. Launch the Segmentation tool by doing one of the following:
 - Double-click **Segmentation** from the **Tools** section in the Navigator.
 - Right-click on **Segmentation** from the **Tools** section in the Navigator and select **Open**.

The Segmentation tool opens.

2. Click the **New Segmentation** button  on the toolbar.

The Inspector loads the configuration for a new segmentation panel.



3. Enter the **Name** of the segmentation panel.
4. Click **Apply** to save the segmentation panel.

The new segmentation panel name displays in the Segmentation Tool.

5. Repeat above steps to create more segmentation panels, if needed.







You can create multiple Segmentation panels to assign different segments of an asset for different broadcast times.

You can also drag the **Segmentation Tool** icon  on the segmentation panel into the Inspector if you want to change the panel name later.







Assigning segments to assets

- If GV STRATUS security is enforced, your credentials must give you full read and write permissions on bins, assets, and segments. You can only view segments with read permission, and modify segments with write permission.
- Create Segment and Update Segment permissions must be set to **Allow**, for you to create and update segments.

You can assign segments to an asset in the Segmentation panel. Segments are created in the Source Viewer panel by marking in and out specific part of the asset.

1. Drag the selected asset from Asset List into the Source Viewer in the Segmentation panel.
2. If the logging controls are not shown, click the **Show/Hide Control Tray** button  to show the controls, then the drop-down arrow at the right of the control tray and **Add/Remove** buttons if necessary.
3. Navigate to the starting point and click the **Mark In** button.  ( I)
4. Determine the end-point of your segment and click the **Mark Out** button.  ( O)
5. Click on the asset in the Source Viewer, then drag and drop the segment into the Segmentation panel. ( **Alt + Ctrl + Insert**)

The segment adds into the Segmentation panel.

World News 					
World News 00:00:07.02 					
Index ▼	Thumbnail	Name ▼	Mark In ▼	Mark Out ▼	
1		III 000546	00:00:00.12	00:00:01.2	
2		III 000546	00:00:01.15	00:00:02.2	
3		III 000546	00:00:04.18	00:00:05.1	
4		III 000546	00:00:05.22	00:00:09.1	

6. Repeat above steps to add more segments of the asset into the Segmentation panel.

The index number increases whenever a segment is added or duplicated.

NOTE: Without Create Segment and Update Segment permissions, segments cannot be rearranged or dragged and dropped in the same Segmentation panel, or from one panel to another.

You can also create various segment lengths of an asset in multiple segmentation panels for different broadcast times. For example, a program that is scheduled for prime time has more commercial slots compared to the repeat of the same program at a later time. Therefore, several kinds of segments in multiple segmentation panels can be created for the same asset.

Editing segments



- If GV STRATUS security is enforced, your credentials must give you full read and write permissions on bins, assets, and segments. You can only view segments with read permission, and modify segments with write permission.
- Create Segment and Update Segment permissions must be set to **Allow**, for you to create and update segments.

When you edit a segment, you change the length of the viewable asset by changing the Mark In and Mark Out points of the segment.

1. Double-click on a segment in the Segmentation panel.

The segment displays in the Source Viewer. The segment on the scrub bar appears in light blue to indicate that the segment is editable and in the **Edit Mode**.



2. Navigate to the desired starting point using the scrub bar, and click the **Mark In** button.  (⏏)
3. Navigate to the desired end-point using the scrub bar, and click the **Mark Out** button.  (⏏)

Trim Asset is enabled when the asset has a mark-in or mark-out point. It is disabled if the asset does not have a mark-in or mark-out point.

NOTE: *If a clip is a part of Dyno record train sequence, Mark In and Mark Out points should not be set beyond the limit of the guard band, as configured for the record train sequence.*


4. Press the **Esc** key on your keyboard.

Your changes are saved to the segment.

The scrub bar of the Source Viewer turns back to dark blue to indicate that the segment is no longer in the **Edit Mode**.

The Segmentation panel displays the new duration, mark in, and mark out points for the segment.

You can also change Mark In and Mark Out points on the Inspector panel.

If you set a segment in the **Edit Mode** by double-clicking the segment, you can play the segment from Mark In point and it will automatically stop at the Mark Out point. If the **Loop Playback** button  is also pressed, the segment plays from Mark In point to the Mark Out point repeatedly in a loop playback.

If the segment is not in the **Edit Mode**, the segment will play until the end of the clip without stopping at the Mark Out point. So to only play segments between your configured mark points, ensure you are in the **Edit Mode** by double-clicking each segment before playback.

Renaming a segment

- Update Segment permission must be set to **Allow**, for you to rename segments.

You can rename segments to differentiate multiple segments for an asset.

1. Select a segment that you want to rename.
2. Right-click and select **Rename**. (⌘ F2 or ⌘ Alt + Click)

The segment name becomes editable.

3. Enter the new name for the segment.
4. Repeat above steps to rename other segments.

Segments are renamed on the segmentation panel.

Segments can also be renamed by dragging the segment into the Inspector.

Merging segments

- Create Segment and Update Segment permissions must be set to **Allow**, for you to merge segments.

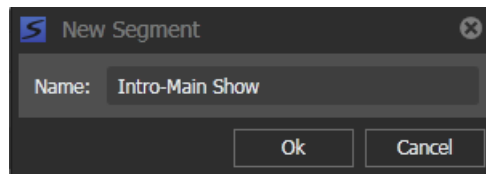
You can merge multiple segments into a single segment in the Segmentation tool. This allows you to combine segments later in post-production if multiple segments were automatically created during a live show.

1. In the desired order, select segments of the same type that you want to merge into one segment.

NOTE: Protected assets cannot be merged.

2. Right-click and select **Merge**.

The New Segment dialog box appears.




By default, the merged segment name displays according to the order of segments that you selected earlier.


You can insert a new name or use the combined name from those merged segments.



3. Click **OK**.






Those segments are merged into one segment in the Segmentation Panel according to the order of the timecode in clips. You can also view the merged segment on the **Segments** tab of the Inspector.

Details 					
Properties		Segments	Parent		
Thumbnail	Name ▼	Mark In ▼	Mark Out ▼	Duration	
	III 000546	00:00:00.12	00:00:01.24	00:00:01.12	
	III 000546	00:00:01.15	00:00:02.22	00:00:01.07	
	III Intro-Main Show	00:00:01.15	00:00:05.13	00:00:03.23	
	III 000546	00:00:04.18	00:00:05.13	00:00:00.20	
	III 000546	00:00:05.22	00:00:09.10	00:00:03.13	

The merged segment is also assigned with the next available index number in the segmentation panel.

World News 

 World News 00:00:11.00  ▼

Index	▼	Thumbnail	Name	▼	Mark In	▼	Mark Out
1			III 000546		00:00:00.12		00:00:01.2
2			III 000546		00:00:01.15		00:00:02.2
3			III 000546		00:00:04.18		00:00:05.1
4			III 000546		00:00:05.22		00:00:09.1
5			III Intro-Main Show		00:00:01.15		00:00:05.1

The merged segment has the core properties and custom metadata of the first selected segment.

NOTE: *Merging segments of different Segment Types is not allowed. You can only merge segments with the same Segment Type.*

Moving and copying a segment

- Create Segment and Update Segment permissions must be set to **Allow**, for you to copy or move segments.

You can move or copy a segment from one segmentation panel into another. This saves time in your operation as you don't have to create new segments for each segmentation panel.

1. Select the segment you want to move in a segmentation panel.
2. Drag the segment to another segmentation panel.

Once you drag the segment, a tooltip appears to describe your action.

3. Drop the segment into the other segmentation panel.

The segment moves from one segmentation panel into another.

To copy a segment into another segmentation panel, drag and drop the segment while pressing the **Ctrl** button.

Multiple segments can be copied at the same time, but duplicate segments are not allowed.

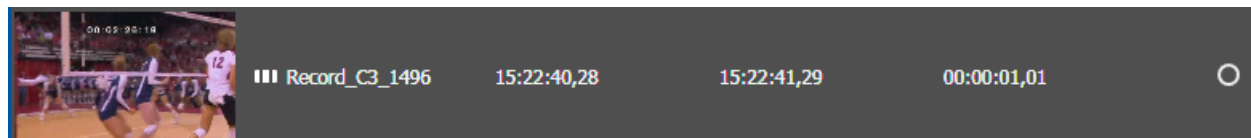
Approving a segment


- Update Segment permission must be set to **Allow**, for you to approve segments.

You can set the approval status if you want to use it in your workflow.

1. Select a segment in the Segmentation panel.


The approval status of a segment is set to **None** by default.




2. Click the **None** icon  to change the approval status.

The approval status changes to **Approved**.

You can click the icon to toggle the approval status of each segment.

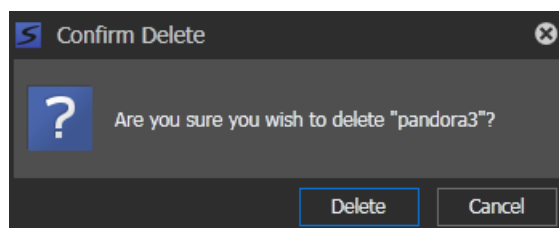
 **None:** Identifies the approval status of the clip as none.

 **Approved:** Identifies the approval status of the clip as approved.

 **Rejected:** Identifies the approval status of the clip as rejected.

Deleting a segment

- Delete Segment permission must be set to **Allow**, for you to delete segments.
1. Select a segment or multiple segments that you want to delete.
To select multiple segments, hold the **Shift** key down and select all segments between two selected segments; or hold the **Ctrl** key down and select segments randomly.
 2. Right-click and select **Delete**. (🗑 Delete)
The Confirm Delete dialog opens.



3. Click **Delete**.

The selected segment is deleted from the segmentation panel.

The index number is also deleted and not replaced in the segmentation panel.

Primetime News				
Primetime News				
Index	Thumbnail	Name	Mark In	Mark Out
1		0001SR	00:00:01,06	00:00:02,2
2		0001SR	00:00:03,29	00:00:04,2
4		0001SR	00:00:05,00	00:00:07,2

Deleting a Segmentation Panel

- Delete permission must be set to **Allow**, for you to delete segmentation panels.
1. Right-click on the **Segmentation Tool** icon (📺) in the segmentation panel that you want to delete.
 2. Select **Delete**.
A dialog opens for you to confirm the segmentation panel deletion.

- 3. Select **Yes**.
The segmentation panel is deleted from the Segmentation Tool.

The House Number panel

The House Number panel displays house numbers that are sent from the traffic system. The traffic system sends house numbers to the GV STRATUS application by dropping BXF files into a traffic watch folder. You can link these house numbers to GV STRATUS assets in this panel. If you have created multiple segments for an asset associated with a house number, you can also view those segmentations in the panel.

You can only access the House Number panel if you have the Segmentation role.

House Number					
Name	House Number	Description	Content Type	Media	
▶ House Numb...	HN-002	Description here..	Program	00164C(1)	
▶ Non Program...	Non Program Add 1	Sun 6pm & 8.30pm/...	PROMO		
▶ For program...	Program Add 1	For program Descripti...	Program	0003L6(3)	

House Number panel features are as follows:

- List — Populates the House Number List after BXF files are dropped into the traffic watch folder. The list consists of program name, house number, content type, description, and media.
- Sortable columns — Sorts the list when you click the column head.
- Filter tool — Filters the list based on criteria you enter. The Filter tool opens when you click the **Enable Filter** button.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments. For example, House Numbers are hidden if Read access is not granted on the linked asset.

Configuring custom metadata for House Number List

For the integration between traffic system and the House Number List, you need to add below custom fields manually in the Metadata settings of GV STRATUS Control Panel application.

If GV STRATUS security is enforced, your credentials must give you read and write permissions for all 5 custom metadata fields below:

Field name	Type
House Number	Text - 256 Characters
Program	Boolean
Content Name	Text - 256 Characters
Content Description	Text - 256 Characters
Content Type	Text - 256 Characters

Related Topics

[Custom Metadata settings](#) on page 267


Linking asset to a house number

House numbers are automatically populated in the House Number List when the traffic system drops BXF files inclusive of list of programs and house numbers into the traffic watch folder. Users can then browse for assets related to those programs and link them to the respective house numbers. The link between assets and house numbers provide an easy workflow for playout automation later.

If GV STRATUS security is enforced, your credentials must give you full permissions for all 5 custom metadata fields of House Numbers.

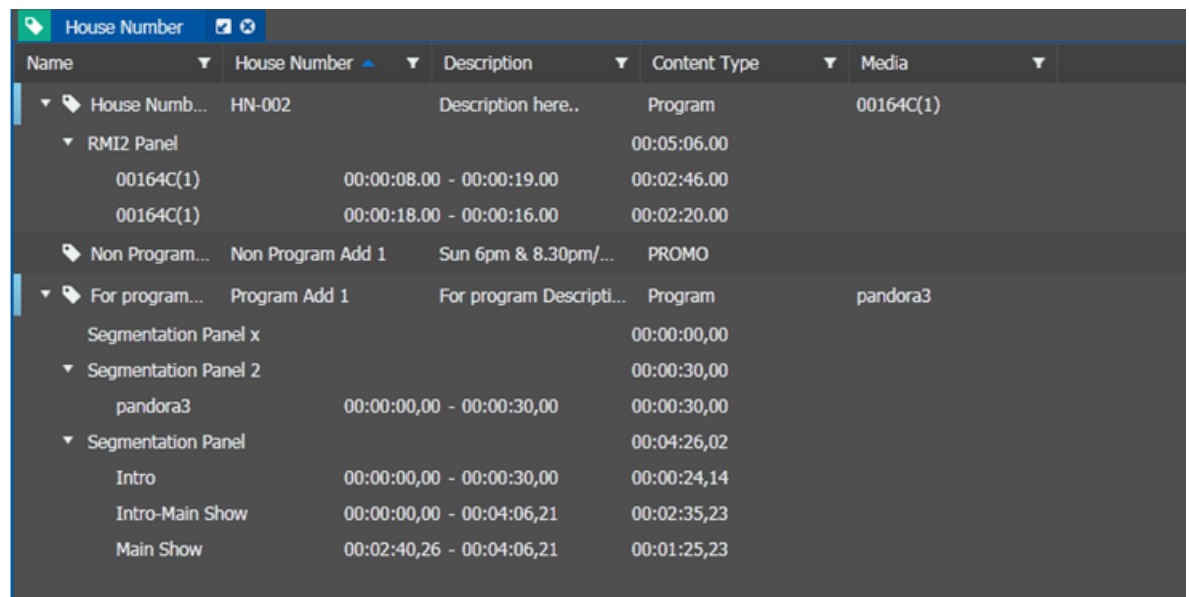
1. Select an asset in the Asset List.
2. Drag the asset into the House Number List.

A tool tip appears and each row in the House Number List highlights when your cursor selects a row.

NOTE: *Without Write permissions on all 5 custom metadata fields, the Not Allowed  icon displays and the process to link/unlink asset to a house number is not permitted.*

- Drop the asset into the selected row of House Number.

The asset links to the house number and the asset name appears in the **Media** column of the house number.



Name	House Number	Description	Content Type	Media
House Numb...	HN-002	Description here..	Program	00164C(1)
RM12 Panel			00:05:06.00	
00164C(1)		00:00:08.00 - 00:00:19.00	00:02:46.00	
00164C(1)		00:00:18.00 - 00:00:16.00	00:02:20.00	
Non Program...	Non Program Add 1	Sun 6pm & 8.30pm/...	PROMO	
For program...	Program Add 1	For program Descripti...	Program	pandora3
Segmentation Panel x			00:00:00,00	
Segmentation Panel 2			00:00:30,00	
pandora3		00:00:00,00 - 00:00:30,00	00:00:30,00	
Segmentation Panel			00:04:26,02	
Intro		00:00:00,00 - 00:00:30,00	00:00:24,14	
Intro-Main Show		00:00:00,00 - 00:04:06,21	00:02:35,23	
Main Show		00:02:40,26 - 00:04:06,21	00:01:25,23	

The beginning for each row of linked house number displays in blue.

- If you linked an asset to a wrong house number, right-click on the house number and select **Unlink**.
- Repeat above steps to link more assets to other house numbers.

After an asset is linked to a house number, a BXF file is generated and sent to the traffic system for notification of the new association.

When an asset with multiple segmentations is linked to a house number, those segmentations can also be viewed in the House Number List.

Configuring the GV STRATUS application

Configuring User Preference

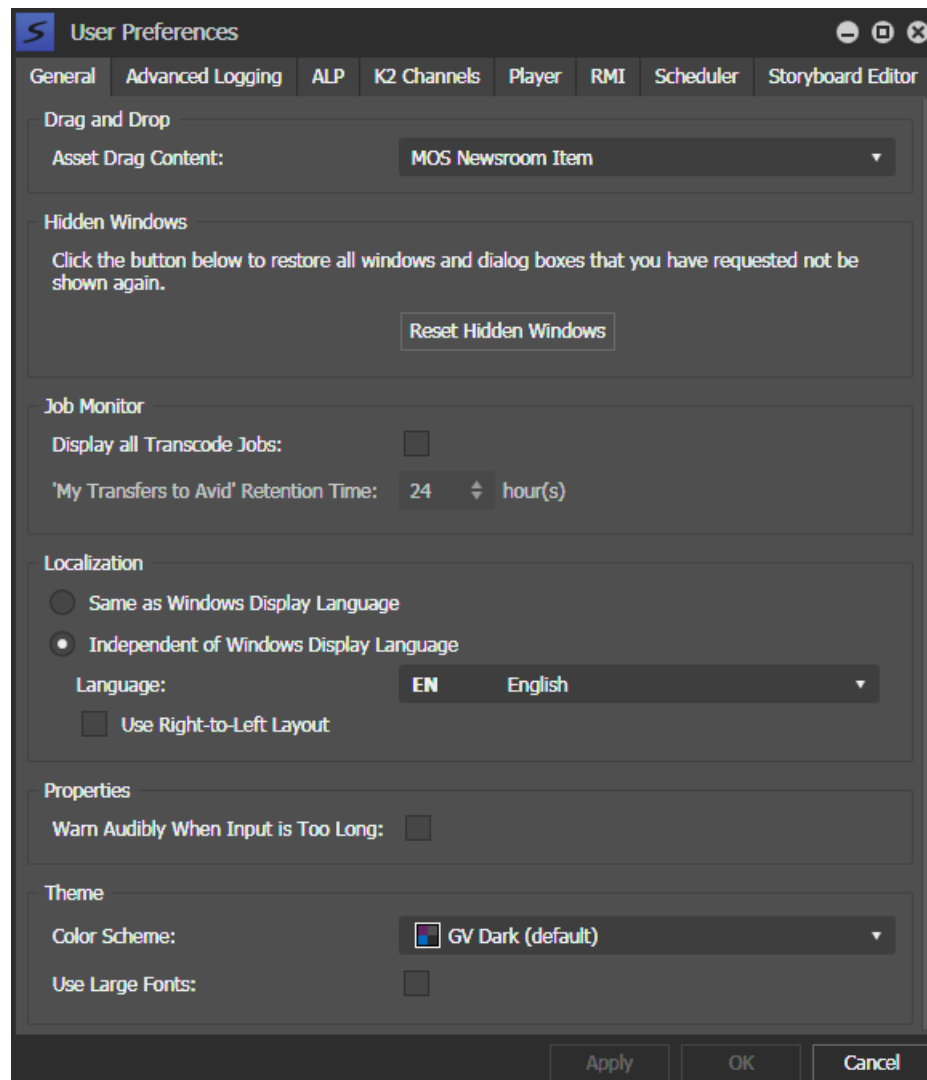
- Select **Edit | User Preferences**.

The User Preferences dialog box opens.

The GV STRATUS application shows or hides sections based on the roles assigned to your GV STRATUS log on credentials.

- Select the tab for the panel or component you are configuring and make settings accordingly.

3. To configure general user preferences, select the **General** tab.

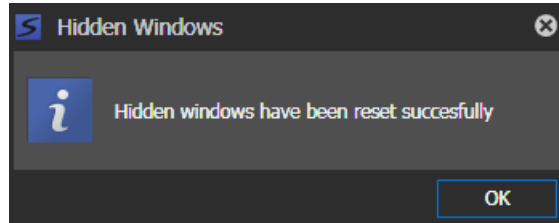


4. To configure the **Asset Drag Content** setting for Drag and Drop workflow in GV STRATUS application, select one from the following:
 - **STROB File** - This is the default setting, as STROB file is the file format used to drag and drop all assets in the GV STRATUS application.
 - **MOS Newsroom Item** - All GV STRATUS assets can be dragged and dropped as MOS items into the ENPS application.
 - **Legacy Avid DHM Ingest** - All GV STRATUS assets can be dragged and dropped into the Avid application.

NOTE: Do not change this setting except under supervision of qualified Grass Valley Support personnel. Extensive system configuration is required to achieve a working GV STRATUS system.

5. To display windows and dialog boxes that you have set to "Do not ask again", click **Reset Hidden Windows**.

The **Hidden Windows** dialog appears to confirm the reset, so click **OK**.



6. To configure Job Monitor settings, do the following:
 - a) To display detailed transcode jobs in Jobs Monitor, select **Display all Transcode Jobs**.

When not selected, only hi-res transcoding and proxy encoding jobs are displayed. When selected, the associated thumbnail, closed caption, and metadata jobs are also displayed.

By default, this setting is not selected. You must have the **Media Manager** role to change this setting.
 - b) To set the display duration of Transfer to Avid jobs in Jobs Monitor, set the retention time in **My Transfers to Avid** setting.

By default, this setting is set to 24 hours.
7. To configure Localization settings, do the following:
 - a) Make sure the GV STRATUS language pack for the language you are configuring is installed on the GV STRATUS client PC.

This is required for any GV STRATUS localization.
 - b) Select the localization option as follows:
 - To localize the GV STRATUS application with the language currently configured in the Windows operating system, select **Same as Windows Display Language**.

The GV STRATUS language pack that corresponds to the Windows display language must be installed.
 - To localize the GV STRATUS application with a language different than that currently configured in the Windows operating system, select **Independent of Windows Display Language**, then in the **Language** list select one of the GV STRATUS language packs currently installed. Also configure the **Use Right-to-Left Layout** check box to suit the selected language.
 - c) Restart the GV STRATUS application to put the localization setting into effect.

8. To configure Inspector properties, do the following:
 - a) To set an audible alarm when reached the maximum text limit, select **Warn Audibly When Input is Too Long**.
 By default this is not selected, so you need to select this setting to have the audible alarm in your operation.
 The alarm will only be activated when the maximum text limit is reached, if the custom metadata text limit had been configured in the GV STRATUS Control Panel.
9. To set the theme of the application, configure the **Color Scheme** drop-down list and **Use Large Fonts** as desired.
10. To apply a change and continue editing user preferences settings, click **Apply**.
11. To accept any changes and close the dialog box, click **OK**.
 The dialog box closes.

Related Topics

[Installing a GV STRATUS language pack](#) on page 1117
[Loading an application window workspace](#) on page 1123
[Changing Advanced Logging user preferences](#) on page 1044
[Changing ALP User Preferences](#) on page 1052
[Configuring K2 Channels User Preferences](#) on page 868
[Configuring RMI User Preferences](#) on page 855
[Configuring Scheduler User Preferences](#) on page 852
[Inserting assets as MOS items into ENPS](#) on page 1075

Installing a GV STRATUS language pack

1. Download one or more GV STRATUS language packs.
 Each downloaded language pack is a zip file.
2. Unzip a downloaded file.
 The unzipped file is a directory, named for the language.
3. Put the directory in your GV STRATUS install location.
 By default, the GV STRATUS install location is *C:\Program Files\Grass Valley\STRATUS*.

You can now select the language in GV STRATUS User Preferences.

Related Topics

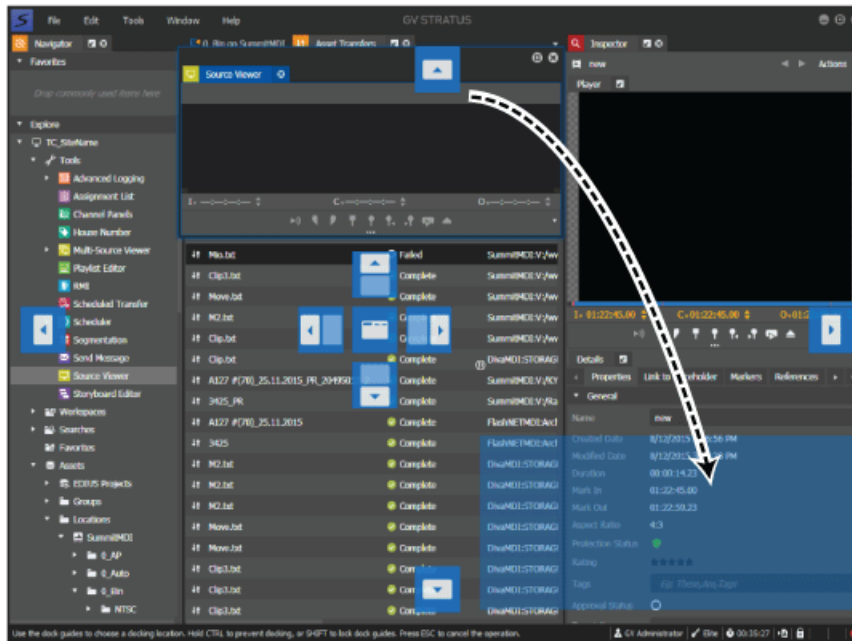
[Configuring User Preference](#) on page 1114
[Loading an application window workspace](#) on page 1123

Customizing the application workspace

Use the topics in this section to customize the application workspace.

About customizing the application workspace

You can rearrange the panels of the application to best suit your workflow needs.



Features for customizing the workspace are as follows:

- Undock panels and move them to another location within the application window, within another panel, or to their own location on the Windows desktop.
- Hide panels so that they show only as a tab.
- Close panels.
- Resize panels.
- Save an arrangement of docked and undocked panels as a uniquely named workspace.
- Load a workspace to automatically arrange panels.

Related Topics

[Customizing the application workspace](#) on page 1117

Showing a panel

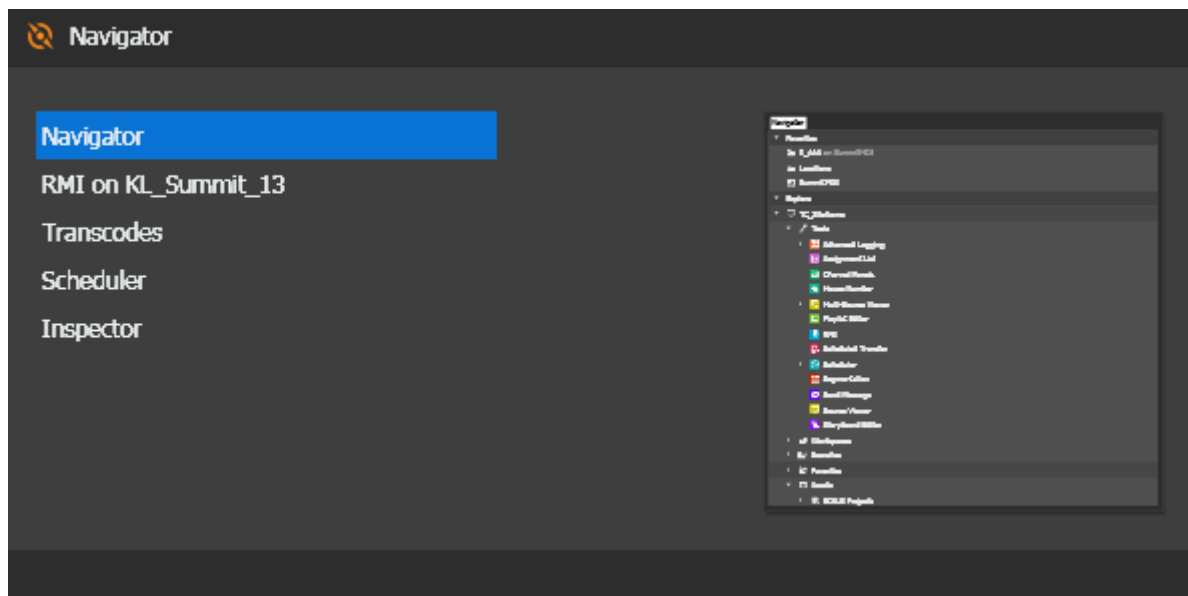
If a panel is not currently visible in the user interface, the way you make the panel visible depends on whether the panel is currently closed, showing as a tab, or open yet obscured by another panel or application. If you are not sure of the current state of the panel, you should find it and determine its state before attempting to make it visible.

Finding a panel

If you are not sure of the location or current state of a panel, use the following procedure to find it.

1. Click **Window | Panels**.

2. Identify the name of the panel on the menu list and determine its current state as follows:
 - If the panel name does not have a checkmark next to it, the panel is currently closed. You can select the panel name to open the panel in its last location.
 - If the panel name has a checkmark next to it, the panel is already showing. If you select the panel name, the panel closes, rather than opens.
3. If the panel is already showing, find your panel as follows:
 - Use keyboard shortcut **Ctrl + Tab** to view and select from a list of panels with thumbnails.



- Check the edges of the application window to find your panel showing as a Show/Hide tab.
- In other panels check the area under the title bar to find your panel showing as a panel tab.
- Check the Windows taskbar and/or desktop to find your panel as an undocked panel. Your panel might be obscured by another panel or application window.
- If you are having difficulty finding your panel, close and then reopen the panel from **Window | View**. This causes the panel to open in front of any other panels that could be obscuring it.
- Click **Window | View** and reload a workspace.

Related Topics

[Loading an application window workspace](#) on page 1123

[Configuring User Preference](#) on page 1114

[Installing a GV STRATUS language pack](#) on page 1117

Showing a closed panel


If a panel is currently closed and its tab is not showing, you can open the panel as follows:

1. Click **Window | Panels**.

2. Identify the name of the panel on the menu list, then do one of the following:
 - If the panel name does not have a checkmark next to it, select the panel name. The panel opens in its last location.
 - If the panel name already has a checkmark next to it. The panel is already showing as a fully open panel or as a tab at the edge of the application . If you select the panel name, the panel closes, rather than opens.

Showing a panel from its Show/Hide tab


If the panel is currently displayed as a Show/Hide tab at the edge of the application window, you can open the panel temporarily or permanently.

1. Hover the cursor over the panel's Show/Hide tab.
The panel opens.
2. Proceed as follows:
 - If you want the panel to stay open temporarily, use the panel as desired, then click outside of the panel. This returns the panel to show as a Show/Hide tab only.
 - If you want the panel to stay open permanently, click the **Pin** button  in the upper-right corner of the panel. The panel opens and docks in its last location in the application window.

Hiding a panel

You can hide or close a panel to make room in the application window.

Do one of the following to hide or close a panel:

- If you want to hide the panel as a Show/Hide tab, click the **Pin** button  in the upper-right corner of the panel. The panel collapses into a Show/Hide tab, which is displayed at the nearest edge of the application window. The tab shows the location of the hidden panel.
- If you want to close the panel completely, click the **X** button in the upper-right corner of the panel. The panel closes. No visible indicator of its location remains.

Undocking a panel

You can undock a panel from the application window so that it becomes an independent, floating panel. You can then move the panel to another location to suit your workflow needs.

To undock a panel do one of the following:

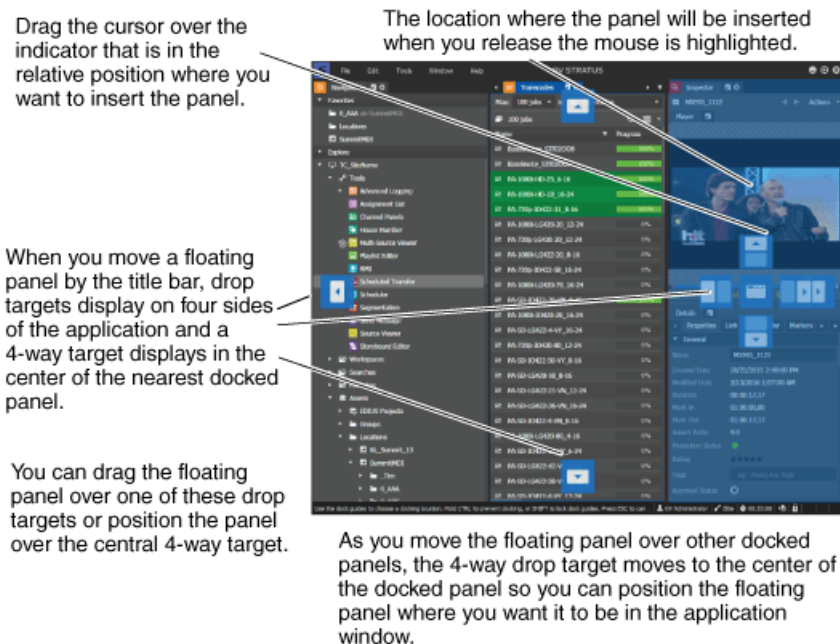
- Double-click the panel's title bar. This automatically undocks the window and moves it to its last location.
- Drag the panel by its title bar to another location. This can be one of the following locations:
 - Within another panel.
 - Within the application window.
 - Outside the application window on your Windows desktop.

If you want to move the panel to new location within another panel or within the application window, you must dock it in the new location.

Docking a panel

Once you have undocked a panel so that it is independent, you can then dock the panel.

1. To dock a panel do one of the following:
 - Double-click the panel's title bar. This automatically docks the panel in its last location. If you do this you can skip the remainder of this procedure.
 - Drag the panel by its title bar as a floating panel and move it to a location within another panel or within the application window, then continue with the remainder of this procedure.
2. Move the cursor over the panel that is closest to your target area for docking the floating panel.
3. Identify the drop target direction arrows that are displayed in the center of the target panel and on each side of the screen.



4. When the desired drop target appears, press and hold the **Shift** key to retain drop target positions. This prevents your drop target from shifting or disappearing as you move the cursor.
5. Move the cursor until it is over the drop target nearest the location where you want the panel docked, as follows:
 - Choose the drop target up, down, right, or left arrows to dock as a fully open panel.
 - Choose the indicator in the center of the drop target square that is surrounded by a 4-way arrow to dock as a tab within the target panel.

A drop preview (a highlighted area) appears.

6. Verify that the drop preview is the location where you want the panel docked.
7. Release the mouse button to dock the panel.
8. Resize the panel as necessary.

Saving an application workspace

Once you have the application workspace, including both docked and undocked panels, arranged according to your workflow needs, you can save the workspace with a unique name. You can then load the saved workspace to return automatically to the same arrangement.

1. To save a workspace, click **Window | Workspace | Save Workspace**.

The Save Workspace dialog box opens.

2. Enter a name for the workspace and click **OK**.

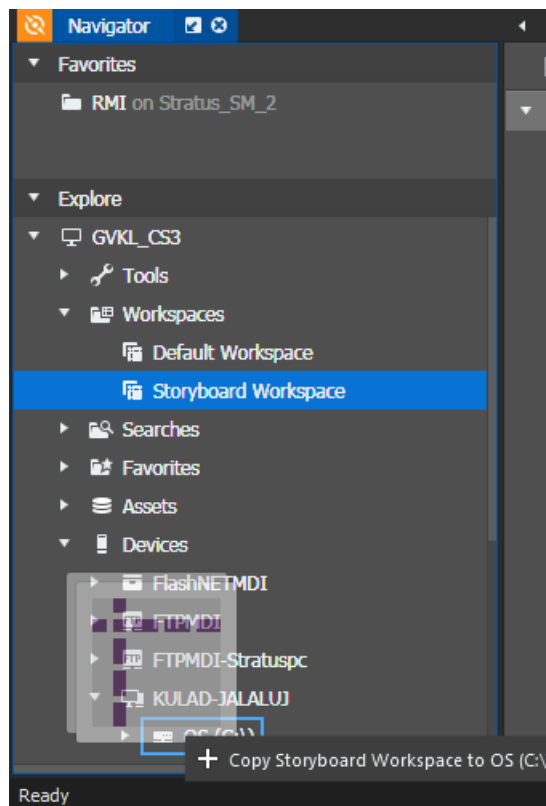
If you enter the same name as a previously saved workspace, the new workspace overwrites the previously saved workspace.

The workspace is saved and added to the **Window | Workspace** list.

Copying an application workspace

Once you have saved an application workspace, you can copy it to a drive or directory on the GV STRATUS client PC.

1. To use drag-and-drop, in the Navigator panel, drag a saved workspace to a drive or directory on the local GV STRATUS client PC.



2. To use **Copy To**, in the Navigator panel, right-click the workspace, select **Copy To**, and in the **Copy To** dialog box navigate to a drive or directory on the local GV STRATUS client PC.

The workspace is saved as a file on the local GV STRATUS client PC.

Opening a closed panel

If a panel is currently closed, you can open the panel as follows:

1. Click **Window | Panels**.
2. Verify that the name of the panel on the menu list does not have a checkmark next to it.
If the panel name has a checkmark next to it, the panel is already showing as a fully open panel or as a tab. If you select the panel name, the panel closes, rather than opens.
3. Select the panel name.
The panel opens in its last location.

Loading an application window workspace

Do one of the following:

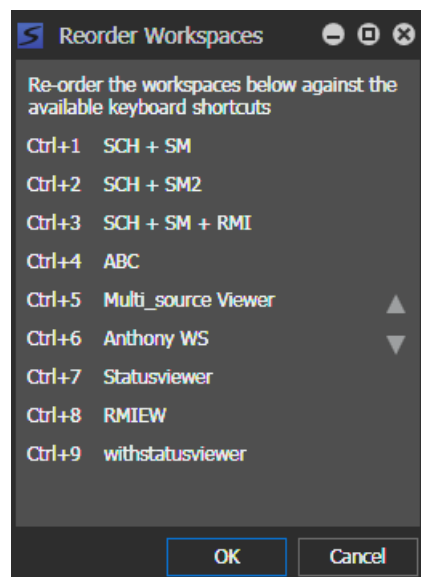
- Click **Window | Workspace** and select a workspace from the list.
- Use keyboard shortcut **Ctrl + 1**, **Ctrl + 2**, **Ctrl + 3**, etc to switch between workspaces.



The application window workspace is automatically arranged, including both docked and undocked panels.

Reordering an application workspace

1. Click **Window | Workspace | Reorder Workspaces**.

The Reorder Workspaces dialog box opens and lists saved workspaces.



2. Select a workspace from the list.
3. Click the **Move Up** button  or **Move Down** button  to move the workspace and reorder it against other available keyboard shortcuts.

4. Click **OK**.

The workspace list is rearranged on the **Window | Workspace** menu.

Deleting an application workspace

1. Click **Window | Workspace | Delete Workspace**.

The Delete Workspace dialog box opens and lists saved workspaces.

2. Select a workspace from the list.

You can press Ctrl + Click to select multiple workspaces.

3. Click **Delete**.

The workspace is removed from the **Window | Workspace** list.

Troubleshooting the GV STRATUS application

About application status

You can view the status of the application as follows:

Status Bar

Indicates whether the application is ready or not, the user account currently logged on, and license information.

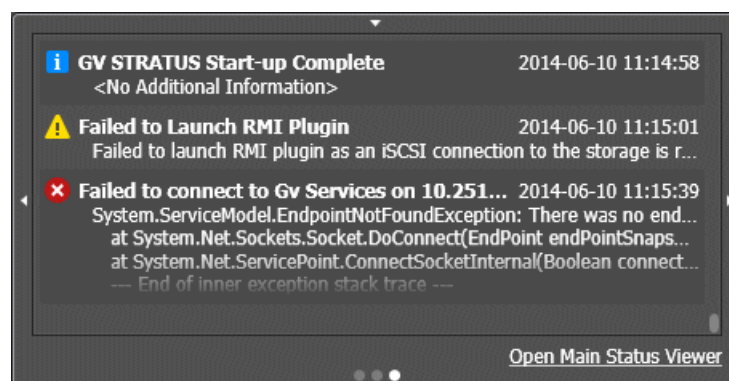
Status Indicator

Displays an alert when a problem occurs that requires your attention.

Notification pop-up panel

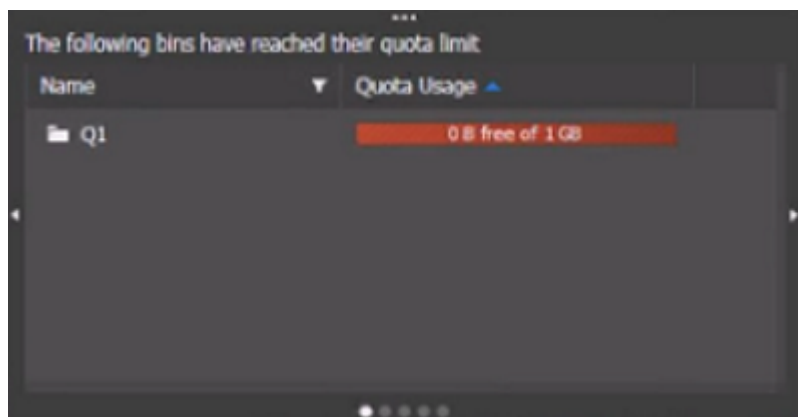
Provides a condensed view of status.

To open the Notification pop-up panel to the Status page, in the lower-right GV STRATUS application Status bar, click the Status indicator. The Status indicator can display the **Error** message icon. ❌



To open the Status Viewer panel for an expanded view, click **Open Main Status Viewer**.

To view other notifications, click the arrow on the right of the pane. You can view security notification, background tasks, jobs in progress, system status, and bin quota limit, if reached.



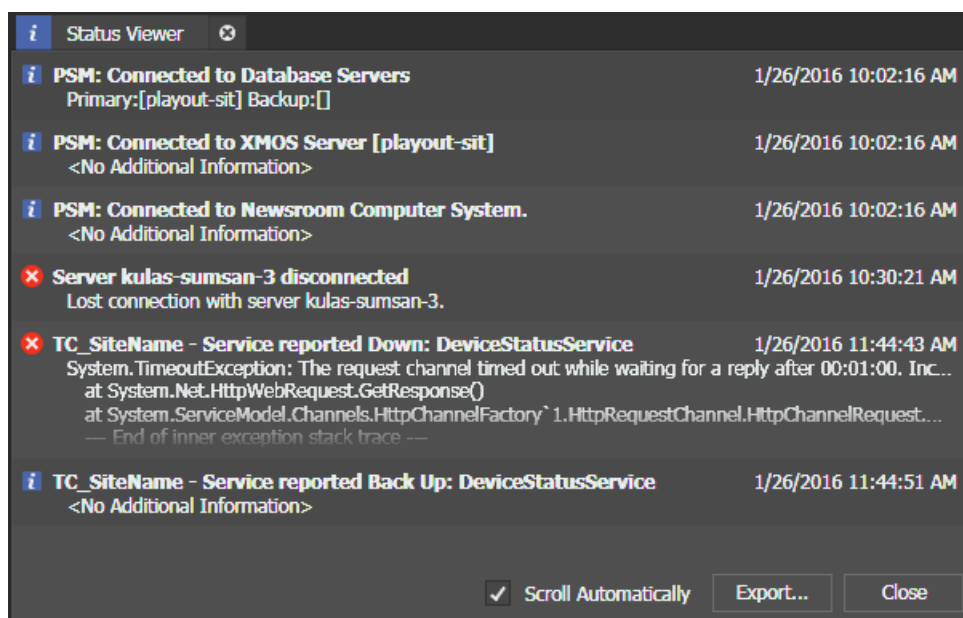
To close the Notification pop-up panel, click the down-arrow on the top edge of the panel or click the Status indicator again.

Status Viewer panel


Allows you to view the status of the application, its components, workspace layout, and any services associated with the application.

To open the Status Viewer panel, do one of the following:


- Click the Status indicator then click **Open Main Status Viewer**.
- Click **Help | Status**.



The Status Viewer panel gives a complete view of information. You can quickly evaluate the system status information by scanning the display icons:

 **Information:** Indicates an information message.

 **Warning:** Indicates a warning message.

 **Error:** Indicates an error message.

By default, the **Scroll Automatically** box is checked.

Viewing and copying version and status information

You can view version information and status information. If necessary, you can also copy the information and send it to Grass Valley support.

- To access version information do the following:
 - a) Click **Help | About**.
The About dialog box opens.
 - b) To copy the detailed system information, click the **Copy Details** button.
 - c) When finished viewing or copying the information, click **Close**.
The dialog box closes.
 - d) Paste the copied information into a text file or email, and send it to Grass Valley support.
- To access status information do the following:
 - a) Click **Help | Status**.
The Status Viewer panel opens.
 - b) To copy status information, double-click a status message.
A message box opens.
 - c) Highlight the message information and press **Ctrl + C**.
 - d) Paste the copied information into a text file or email, and send it to Grass Valley support.

If you have trouble launching EDIUS XS

Confusion about EDIUS for GV STRATUS licensing can cause problems.

The following is required in order to launch the EDIUS for GV STRATUS as a low-resolution editor (EDIUS XS) correctly:

- Your GV STRATUS system must have a Flex, Pro, or Elite license.
- You must be logged on with the EDIUS XS role assigned.
- The client PC on which you are launching EDIUS must not be licensed for EDIUS Workgroup. This is an EDIUS license, installed on the client PC and managed by EDIUS license management. It is not a Sabretooth license.

The EDIUS for GV STRATUS application can launch and operate as follows:

- A high resolution editor, identified as EDIUS Workgroup, which can operate in STRATUS mode or in standalone mode. In STRATUS mode, the EDIUS for GV STRATUS application can access GV STRATUS high resolution assets. In standalone mode, the EDIUS for GV STRATUS application cannot access GV STRATUS high resolution assets.

- A low resolution proxy editor, identified as EDIUS XS, which operates in a single mode that must access GV STRATUS proxy assets.

Both of these applications can launch from the **EDIUS** icon .

The same EDIUS software installation package is used to install both types of EDIUS for GV STRATUS applications, so there can be confusion about which application is being launched. This is especially true if licenses for both applications apply to the same client PC, which is not supported. When you launch an EDIUS for GV STRATUS application, it detects the licensing on the client PC. If licensed for EDIUS Workgroup, you are prompted to logon and the EDIUS Workgroup application always launches. You cannot launch EDIUS XS. If not licensed for EDIUS Workgroup you are prompted to logon. Based on your logon, the application checks licensing and roles on the GV STRATUS Core server. If the license includes EDIUS XS and your logon account is assigned the EDIUS XS role, EDIUS XS launches. Therefore, if you have ever licensed the client PC for EDIUS Workgroup, do not use that PC for EDIUS XS.

Troubleshooting tips

Symptom	Solution
No video appears when you click the Live Streaming Video button.	Check networking and connection to the K2 Summit/SAN system V:\ drive. To test, navigate on the K2 Summit/SAN system to the V:\live streaming directory. Open the corresponding *.sdp file in Quicktime and verify that video is available.
Problem with Live Streaming when the K2 Summit system's IP address is changed.	On the K2 Summit system navigate to <code>V:\live streaming</code> and use Notepad or a similar text editor to open a *.sdp file. Check the first IP address listed in the file, on the <code>o=</code> line. If it is not the K2 Summit system's Control Connection IP address, delete the *.sdp files in the directory and restart the K2 Summit system.
When running GV STRATUS on a virtual machine or connecting with a Remote Desktop session to a PC running GV STRATUS, there is no video or graphic display in the GV STRATUS application.	Use the GV STRATUS application directly on an actual GV STRATUS client PC. Remote Desktop and virtual machines do not provide the graphics support required by the GV STRATUS application.
The GV STRATUS application takes a long time to open or does not open.	This can happen when the application attempts to load the last used workspace when it opens and there is a problem with that workspace. To open with the default workspace, hold down the left-hand Alt key while the application opens. To open with all user settings disabled, open the application from the command prompt using the failsafe switch, as in <code>STRATUS /failsafe</code> .
A "Windows could not start the GV STRATUS ... service" Error 1069 message appears.	This can happen when a password is changed using an improper procedure. Refer to related topics in this Topic Library.

Keyboard shortcuts

Inspector keyboard shortcuts

Function	Key	Comment
-1 Frame	A	
-10 Frames	D	
+1 Frame	S	
+10 Frames	F	
Add Keyword	Ctrl + Insert	
Add Marker	Insert	
Clear Mark In	Shift + I	
Clear Mark Out	Shift + O	
Clear Marks	Shift + P	
Create Subclip	F4	In Inspector
Eject	Ctrl + E	In Source Viewer, Inspector, Channel Panel, Playlist Editor.
Enable Editable Field	Alt + Click	
Fast Forward	R	
Forward by Frame	K (press and hold) + L	Play video forward by one frame with each press of L
Send	F11	In Inspector, Asset List, Storyboard Editor, Sequence Viewer.
Go to Beginning	Home	
Go to End	End	
Go to Mark In	Ctrl + I	
Go to Mark Out	Ctrl + O	
Go to Next Marker	H	
Go to Previous Marker	G	In Inspector
Hide Markers and Keywords	Ctrl + ?	
Mark In	I	In Channel Panel, trims material before Mark In. In Inspector and Source Viewer, does not affect material before Mark In.

Function	Key	Comment
Mark Out	O	In Channel Panel, trims material after Mark Out. In Inspector and Source Viewer, does not affect material after Mark Out.
Navigate Back	Alt + Left Arrow	
Navigate Forward	Alt + Right Arrow	
Pause	K	In Inspector, Source Viewer, Storyboard Editor
Play/Pause	Spacebar	Toggles between play and pause.
Play from Start	Q	
Play	L	In Inspector, Source Viewer, Storyboard Editor
Play speed increase	L (press repeatedly)	Play video forward, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
Play Slo-Mo	K + L (hold down both)	Play video forward, increasing by 1/10 speed
Play	W	
Reverse	J	In Inspector, Source Viewer, Storyboard Editor
Reverse speed increase	J (press repeatedly)	Play video in reverse, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
Reverse Slo-Mo	K + J (hold down both)	Play video in reverse, increasing by 1/10 speed
Reverse by Frame	K (press and hold) + J	Play video forward by one frame with each press of L
Rewind	E	
Trim	F3	In Inspector

Channel Panel keyboard shortcuts

Function	Key	Comment
Cue Start	Home	
Cue End	End	
Eject	Ctrl + E	In Source Viewer, Inspector, Channel Panel, Playlist Editor.

Function	Key	Comment
Mark In	I	In Channel Panel, trims material before Mark In. In Inspector and Source Viewer, does not affect material before Mark In.
Mark Out	O	In Channel Panel, trims material after Mark Out. In Inspector and Source Viewer, does not affect material after Mark Out.
Play/Pause	Spacebar	Toggles between play and pause. Can be disabled in User Preferences for Channel Panel and Playlist Editor.
Play	W	
Record	F12	
Stop Record	F11	In Channel Panel
Enable Editable Field	Alt + Click	

Related Topics

[About keyboard shortcuts and input focus in a Channel Panel](#) on page 887

Playlist Editor keyboard shortcuts

Function	Key	Comment
Delete	Delete	
Eject	Ctrl + E	In Source Viewer, Inspector, Channel Panel, Playlist Editor.
Go to Beginning	Home	
Go to End	End	
Go to Next	H	
Go to Previous	G	
Hide Markers and Keywords	Ctrl + ?	
Play/Pause	Spacebar	Toggles between play and pause. Can be disabled in User Preferences for Channel Panel and Playlist Editor.
Play	W	
Select All	CTL + A	
Enable Editable Field	ALT + Click	

Scheduler keyboard shortcuts

Function	Key	Comment
Add Event	A	
Delete Event	Delete	Disabled for deleting bins and assets if delete rights are denied.
Go to Date	D	In Scheduler
Go to Next Day	H	In Scheduler
Go to Previous Day	G	In Scheduler
Modify Event	M	
Properties	P	
Quick Schedule	Q	
Rename Event	F2	
Stop Event	S	
Zoom In	Up Arrow	In Scheduler
Zoom Out	Down Arrow	In Scheduler
Enable Editable Field	Alt + Click	

Segmentation keyboard shortcuts

Function	Key	Comment
Delete segment	Delete	Disabled for deleting bins and assets if delete rights are denied.
Add Segment	Alt + Ctrl + Insert	In Segmentation Panel
Select All	Ctrl + A	
Enable Editable Field	Alt + Click	

Sequence Viewer keyboard shortcuts

Function	Key	Comment
-1 Frame	A	
-10 Frames	D	
+1 Frame	S	
+10 Frames	F	
Add Keyword	Ctrl + Insert	

Function	Key	Comment
Add Marker	Insert	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Fast Forward	R	
Go to Beginning	Home	
Go to End	End	
Go to Next Marker	H	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Go to Next Page	Page Down	
Go to Previous Marker	G	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Hide Markers and Keywords	Ctrl + ?	
Play	W	
Play/Pause	Spacebar	Toggles between play and pause.
Play from Start	Q	
Rewind	E	
Split	\	
Trim In	F5	
Trim Out	F6	

Source Viewer keyboard shortcuts

Function	Key	Comment
-1 Frame	A	
-10 Frames	D	
+1 Frame	S	
+10 Frames	F	
Add Keyword	Ctrl + Insert	
Add Marker	Insert	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Clear Mark In	Shift + I	
Clear Mark Out	Shift + O	

Function	Key	Comment
Clear Marks	Shift + P	
Copy Clip	C	Copy clip in Source viewer from user-defined mark-in/mark-out values and paste to Storyboard Editor.
Eject	Ctrl + E	In Source Viewer, Inspector, Channel Panel, Playlist Editor.
Fast Forward	R	
Forward by Frame	K (press and hold) + L	Play video forward by one frame with each press of L
Go to Beginning	Home	
Go to End	End	
Go to Mark In	Ctrl + I	
Go to Mark Out	Ctrl + O	
Go to Next Marker	H	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Go to Previous Marker	G	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Hide Markers and Keywords	Ctrl + ?	
Mark In	I	In Channel Panel, trims material before Mark In. In Inspector and Source Viewer, does not affect material before Mark In.
Mark Out	O	In Channel Panel, trims material after Mark Out. In Inspector and Source Viewer, does not affect material after Mark Out.
Pause	K	In Inspector, Source Viewer, Storyboard Editor
Play	W	
Play/Pause	Spacebar	Toggles between play and pause.
Play from Start	Q	
Play	L	In Inspector, Source Viewer, Storyboard Editor
Play speed increase	L (press repeatedly)	Play video forward, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)

Function	Key	Comment
Play Slo-Mo	K + L (hold down both)	Play video forward, increasing by 1/10 speed
Reverse	J	In Inspector, Source Viewer, Storyboard Editor
Reverse speed increase	J (press repeatedly)	Play video in reverse, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
Reverse Slo-Mo	K + J (hold down both)	Play video in reverse, increasing by 1/10 speed
Reverse by Frame	K (press and hold) + J	Play video in reverse by one frame with each press of J
Rewind	E	

Storyboard keyboard shortcuts

Function	Key	Comment
Add Marker	Insert	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Delete	Delete	Disabled for deleting bins and assets if delete rights are denied.
Forward by Frame	K (press and hold) + L	Play video forward by one frame with each press of L
Go to Next Marker	H	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Go to Previous Marker	G	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
Hide Markers and Keywords	Ctrl + ?	
New Sequence	Ctrl + Shift + N	
Pause	K	In Inspector, Source Viewer, Storyboard Editor
Play	L	In Inspector, Source Viewer, Storyboard Editor
Play speed increase	L (press repeatedly)	Play video forward, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
Play Slo-Mo	K + L (hold down both)	Play video forward, increasing by 1/10 speed

Function	Key	Comment
Reverse	J	In Inspector, Source Viewer, Storyboard Editor
Reverse speed increase	J (press repeatedly)	Play video in reverse, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
Reverse Slo-Mo	K + J (hold down both)	Play video in reverse, increasing by 1/10 speed
Reverse by Frame	K (press and hold) + J	Play video in reverse by one frame with each press of J
Save	Ctrl + S	
Split	\	
Trim In	F5	
Trim Out	F6	
Send	F11	In Inspector, Asset List, Storyboard Editor, Sequence Viewer.

All keyboard shortcuts

Key	Function	Comment
A	Add Event	
A	-1 Frame	
Alt + Ctrl + Insert	Add Segment	In Segmentation Panel
Alt + Click	Enable Editable Field	
Ctrl + C	Copy	Copy clip in Source viewer from user-defined mark-in/mark-out values and paste to Storyboard Editor.
Ctrl + E	Eject	In Source Viewer, Inspector, Channel Panel, Playlist Editor.
Ctrl + Insert	Add Keyword	
Ctrl + ?	Hide Markers and Keywords	
D	-10 Frames	
D	Go to Date	In Scheduler
Delete	Delete/Delete Event	Disabled for deleting bins and assets if delete rights are denied.
Down Arrow	Zoom Out	In Scheduler

Key	Function	Comment
E	Rewind	
End	Cue End	
End	Go to End	
F	+10 Frames	
F2	Rename	
F3	Trim	In Inspector
F4	Create Subclip	In Inspector
F5	Trim In	
F6	Trim Out	
F11	Stop Record	In Channel Panel
F11	Send	In Inspector, Asset List, Storyboard Editor, Sequence Viewer.
F12	Record	
G	Go to Previous Marker	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
G	Go to Previous Day	In Scheduler
H	Go to Next Marker	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
H	Go to Next Day	In Scheduler
Home	Cue Start	
Home	Go to Beginning	
I	Mark In	In Channel Panel, trims material before Mark In. In Inspector and Source Viewer, does not affect material before Mark In.
Ctrl + I	Go to Mark In	
Shift + I	Clear Mark In	
Insert	Add Marker	In Inspector, Source Viewer, Sequence Viewer, Storyboard Editor
J	Reverse	In Inspector, Source Viewer, Storyboard Editor
J (press repeatedly)	Reverse speed increase	Play video in reverse, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)

Key	Function	Comment
K + J (hold down both)	Reverse Slo-Mo	Play video in reverse, increasing by 1/10 speed
K (press and hold) + J	Reverse by Frame	Play video in reverse by one frame with each press of J
K	Pause	In Inspector, Source Viewer, Storyboard Editor
L	Play	In Inspector, Source Viewer, Storyboard Editor
L (press repeatedly)	Play speed increase	Play video forward, increasing speed with each press (1X, 1.5X, 2X, 5X, 8X)
K + L (hold down both)	Play Slo-Mo	Play video forward, increasing by 1/10 speed
K (press and hold) + L	Forward by Frame	Play video forward by one frame with each press of L
Alt + Left Arrow	Navigate Back	
M	Modify Event	
Ctrl + Shift + N	New Sequence	
O	Mark Out	In Channel Panel, trims material after Mark Out. In Inspector and Source Viewer, does not affect material after Mark Out.
Ctrl + O	Go to Mark Out	
Shift + O	Clear Mark Out	
Ctrl + Alt + O	Full Screen	
P	Properties	
Shift + P	Clear Marks	
Page Down	Go to Next Keyword/Marker/Page	
Page Up	Go to Previous Keyword/Marker/Page	
Q	Quick Schedule	
Q	Play from Start	
R	Fast Forward	
Alt + Right Arrow	Navigate Forward	
S	Stop Event	
S	+1 Frame	

Key	Function	Comment
Ctrl + S	Save	
Spacebar	Play/Pause	Toggles between play and pause. In Inspector, Source Viewer, Sequence Viewer, Playlist Editor, Channel Panel. Can be disabled in User Preferences for Channel Panel and Playlist Editor.
Up Arrow	Zoom In	In Scheduler
W	Play	
\	Split	

Specifications

System requirements for GV STRATUS client PC

All systems require one or more GV STRATUS client PCs. Verify that all GV STRATUS client PCs meet system requirements.

Virtual Machines, Remote Desktop, and other modes of remote access are not supported. Lack of robust video/graphic support can cause video display problems.

GV STRATUS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running one or more of the following:

- The GV STRATUS application with a proxy media workflow.
- The GV STRATUS Control Panel application.
- The SiteConfig application.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 32-bit or 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS/EDIUS XS Laptop, and low-resolution Client workstation

These minimum requirements apply to a PC running the following:

- The GV STRATUS application and the EDIUS XS application, with a proxy media workflow.

Characteristic	Specification
Processor	Intel Core i3-2120 3.3GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	80GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Single Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit NOTE: 64-bit required for EDIUS XS
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

GV STRATUS high-resolution workstation

These requirements apply to a PC running the following:

- The GV STRATUS application with a high-resolution media workflow. This requires access to high-resolution assets.
- The EDIUS Workgroup application with a high-resolution media workflow. This requires access to high-resolution assets.

Characteristic	Specification
Processor	Two Intel Xeon 5410 Quad Core 2.33GHz
Memory	4GB RAM
Graphics	Integrated or discrete graphics with Direct 3D 9 or better
System drive	100GB 7200RPM hard drive
Optical drive	CD-ROM drive
Network	Dual Ethernet 1000 Base-T network interface
Operating system	Microsoft Windows 7 SP1 64-bit
Microsoft .NET Framework	Version 4.6.1
Other support	DirectX 9 compatible

K2 system specifications

This section contains specifications for K2 systems.

Video codec description K2 Summit/Solo

First generation K2 Summit Production Client, K2 Summit 3G Production Client, and K2 Solo Media Server specifications are shown in the following tables. Licenses and/or hardware options are required to enable the full range of specifications.

DV formats

Format	Sampling	Frame Rate	Data Rate	Other
DVCAM 720x480i 720x576i	4:1:1/4:2:0	29.97, 25	28.8 Mbps	Conforms to IEC 61834
DVCPRO25 720x480i 720x576i	4:1:1	29.97, 25	28.8 Mbps	Conforms to SMPTE 314M
DVCPRO50 720x487.5i 720x585i	4:2:2	29.97, 25	57.6 Mbps	Conforms to SMPTE 314M
DVCPRO HD 1280x1080i 1440x1080i	4:2:2	29.97, 25	100 Mbps	Conforms to SMPTE 370M
DVCPRO HD 960x720p	4:2:2	59.94, 50	100 Mbps	Conforms to SMPTE 370M

MPEG-2 formats

Format	Sampling	Frame Rate	Data Rate (Mbps)	Other
720x480i	4:2:0	29.97	2-15	I-frame and long GoP
720x480i	4:2:2	29.97	4-50	I-frame and long GoP
720x512i	4:2:2	29.97	4-50	I-frame and long GoP
720x576i	4:2:0	25	2-15	I-frame and long GoP
720x576i	4:2:2	25	4-50	I-frame and long GoP
720x608i	4:2:2	25	4-50	I-frame and long GoP

Format	Sampling	Frame Rate	Data Rate (Mbps)	Other
D10/IMX 720x512i	4:2:2	29.97	30, 40, 50 CBR	I-frame only
1280x720p	4:2:0	59.94, 50	20-80	I-frame and long GoP
1280x720p	4:2:2	59.94, 50	20-100	I-frame and long GoP
D10/IMX 720x608i	4:2:2	25	30, 40, 50 CBR	I-frame only
1920x1080i	4:2:0	29.97, 25	20-80	I-frame and long GoP ¹
1920x1080i	4:2:2	29.97, 25	20-100	I-frame and long GoP
XDCAM-HD 1440x1080i	4:2:0	29.97, 25	18 VBR, 25 CBR, 35 VBR	Long GoP
XDCAM-HD422 1920x1080i	4:2:2	29.97, 25	50 CBR	Long GoP
XDCAM-HD422 1280x720p	4:2:2	59.94, 50	50 CBR	Long GoP
XDCAM-EX 1920x1080i	4:2:0	29.97, 25	35 VBR	Long GoP
XDCAM-EX 1280x720p	4:2:0	59.94, 50	25 CBR, 35 VBR	Long GoP

K2 systems record closed GoP structure. If an open GoP clip is imported, it is fully supported, including trimming the clip, playout of the clip, using the clip in playlists, and exporting the clip.

AVC-Intra formats

Format	Sampling	Frame Rate	Data Rate	Other
AVC-Intra Class 50 1440x1080i	4:2:0	29.97, 25	50 Mbps	Requires licenses or hardware for support on different K2 Summit/Solo system models.
AVC-Intra Class 50 960x720p	4:2:0	59.94, 50	50 Mbps	
AVC-Intra Class 100 1920 x 1080i	4:2:2	29.97, 25	100 Mbps	

¹ Decode of lower bit rate is possible

Format	Sampling	Frame Rate	Data Rate	Other
AVC-Intra Class 100 1280 x 720p	4:2:2	59.94, 50	100 Mbps	
AVC-Intra Class 100 1920 x 1080p	4:2:2	59.94, 50	200 Mbps	

AVCHD/H.264 formats

The following formats are for AVCHD and PitchBlue content. These are only supported for play output (decode) on AVCHD. A license is required. Record input (encode) is not supported.

Format	Sampling	Frame Rate	Data Rate	Other
720x480i	4:2:0	29.97	4-50	H.264-style open GoP. GoP length up to 30 frames. Up to 4 B-frames between anchor frames.
	4:2:2	29.97	4-50	
720x512i	4:2:2	29.97	4-50	
720x576i	4:2:0	25	4-50	
	4:2:2	25	4-50	
720x608i	4:2:2	25	4-50	
1920x1080i	4:2:0	29.97, 25	24 Mbps max.	
	4:2:2	29.97, 25	24 Mbps max.	
1440x1080i	4:2:0	29.97, 25	24 Mbps max.	
	4:2:2	29.97, 25	24 Mbps max.	
1280x720p	4:2:0	59.94, 50	24 Mbps max.	
	4:2:2	59.94, 50	24 Mbps max.	

AVC-LongG formats

The following formats are for AVC-LongG content. These are only supported for play output (decode). A license is required. Record input (encode) is not supported.

Format	Sampling	Frame Rate	Data Rate	Other
AVC-LongG6 1920x1080i	4:2:0	29.97, 25	6 Mbps	LongG
AVC-LongG6 1280x720p	4:2:0	59.94, 50	6 Mbps	

Format	Sampling	Frame Rate	Data Rate	Other
AVC-LongG12 1920x1080i	4:2:0	29.97, 25	12 Mbps	
AVC-LongG12 1280x720p	4:2:0	59.94, 50	12 Mbps	
AVC-LongG25 1920x1080i	4:2:2	29.97, 25	25 Mbps	
AVC-LongG25 1280x720p	4:2:2	59.94, 50	25 Mbps	
AVC-LongG50 1920x1080i	4:2:2	29.97, 25	50 Mbps	
AVC-LongG50 1280x720p	4:2:2	59.94, 50	50 Mbps	

Avid DNxHD formats

The following formats are for Avid DNxHD content. These are supported for record input (encode) and play output (decode). A Summit 3G Codec board with a K2-XDP2-DNX-2CH license is required.

Format	Frame Rate	Data Rate	Bits	Other
1920x1080i	29.97	220 Mbps	10	Avid DNxHD 220x
	29.97	220 Mbps	8	Avid DNxHD 220
	29.97	145 Mbps	8	Avid DNxHD 145
	25	184 Mbps	10	Avid DNxHD 185x
	25	184 Mbps	8	Avid DNxHD 185
	25	121 Mbps	8	Avid DNxHD 120
1280x720p	59.94	220 Mbps	10	Avid DNxHD 220x
	59.94	220 Mbps	8	Avid DNxHD 220
	59.94	145 Mbps	8	Avid DNxHD 145
	50	175 Mbps	10	Avid DNxHD 175x
	50	175 Mbps	8	Avid DNxHD 175
	50	116 Mbps	8	Avid DNxHD 115

Playlist of multiple formats

The K2 Summit/Solo system automatically handles material of various types and formats as specified in the following sections:

Playlist on K2 Summit/Solo

For a given frame rate, you can play SD clips of any format back-to-back on the same timeline. Both 16:9 and 4:3 SD aspect ratio formats can be played on the same timeline. Refer to video codec description earlier in this section for a list of the supported formats.

On channels with the XDP (HD) license, for similar frame rates (25/50 fps or 29.97/59.95 fps), SD material transferred or recorded into the K2 Summit/Solo system along with its audio is up-converted when played on a HD output channel. Likewise, HD material is down-converted along with its audio when played on an SD output channel. HD and SD clips can be played back-to-back on the same timeline, and aspect ratio conversion is user configurable.

The K2 Summit/Solo system supports mixed clips with uncompressed and compressed (PCM, AC3, and Dolby) audio on the same timeline.

25/50 fps conversions on HD K2 Summit/Solo system models

The following specifications apply to K2 Summit/Solo system channels with the XDP (HD) license.

		Converted SD format	Converted HD format	Converted HD format
		625 at 25 fps	1080i at 25 fps	720p at 50 fps
Source SD format	625 at 25 fps	No conversion	Up-convert SD to HD	Up-convert SD to HD
Source HD format	1080i at 25 fps	Down-convert HD to SD	No conversion	Cross-convert from 1080i to 720p
	720p at 50 fps	Down-convert HD to SD	Cross-convert from 720p to 1080i	No conversion

29.97/59.95 fps conversions on HD K2 Summit/Solo system models

The following specifications apply to K2 Summit/Solo system channels with the XDP (HD) license.

		Converted SD format	Converted HD format	Converted HD format
		525 at 29.97 fps	1080i at 29.97 fps	720p at 59.94 fps
Source SD format	525 at 29.97 fps	No conversion	Up-convert SD to HD	Up-convert SD to HD
Source HD format	1080i at 29.97 fps	Down-convert HD to SD	No conversion	Cross-convert HD to HD

720p at 59.94 fps	Down-convert	Convert	No conversion
	HD to SD	HD to HD	

Mapping audio channels

In AppCenter Pro and Elite versions, there is support for up to 64 tracks of audio for an existing clip. In addition to existing language labels, you can specify a track number in the form A# where # is a number from 1 to the last track number ("A64"). This allows you to map the audio track to a specific track index rather than a language tag. If you want to map all 64 tracks, you must gang them in four 16 channel groups. If a clip has less than 32 audio tracks, then audio tracks 33 through 64 repeat. **Note:** Do not label your audio track Axx (where xx is numbered 1-64). These names are reserved for mapping only.

1. In the Channel tab of the Configuration Manager, scroll down to the Audio Output section. The sections are grouped into 16 channels under each channel tab (C1-C4).
2. Select **<Add Tags...>**.
 - Enter a name in the Primary or Secondary audio output track, or check the Play silence options. Continue to enter names for up to 64 audio tracks. Note that the first Primary Audio Output tag name appears in the Audio Output Tags in the Configuration Channel tab.
3. If you want to map all 64 audio tracks, you must gang them in four 16 channel groups: Ch 1: tracks 1-16, Ch 2: tracks 17-32, Ch 3: tracks 33-48 and Ch 4: tracks 49-64.
4. To have the changes apply to this configuration file, click **OK**.

Internationalization

When you enable internationalization on a K2 Summit/Solo system, you can name your media assets in a local language. The K2 Summit/Solo system supports the local language name as specified in the following table.

System	Internationalization support
Keyboard input and display	<ul style="list-style-type: none"> • English • Chinese • Japanese • French • German • Spanish • Cyrillic (Russian) • Portuguese • Korean
Media database	<ul style="list-style-type: none"> • All external views of movie assets can be represented as wide-file names. • AppCenter runs in Unicode. • Only movie assets and searchable User Data keys are Unicode.
Media file system	<ul style="list-style-type: none"> • Support for Kanji and wide-character file and folder names. • File-folder representation of movie are internationalized, as well as the QuickTime reference file it contains. • Key names (V:\media) remain unchanged, but are Unicode.
K2 Summit/Solo applications	<ul style="list-style-type: none"> • Movie assets are described in Unicode. • Application user interfaces are Unicode compliant.
Protocols	Refer to "Remote control protocols" in the "Configuring the K2 System" section of the K2 Topic Library.
FTP transfers	Refer to "FTP internationalization" in the "Configuring the K2 System" section of the K2 Topic Library.

Names of media assets and bins must conform to the naming specifications for assets and bins.

Limitations for creating and naming assets and bins

Media assets and bins must conform to the following specifications.

Characters not allowed in asset and bin names

Position	Character	Description
Anywhere in name	\	backward slash
	/	forward slash
	:	colon
	*	asterisk
	?	question mark

Position	Character	Description
	<	less than
	>	greater than
	%	percent sign
		pipe
	"	double quote
At beginning of name	~	tilde
		space
At the end of name		space

Asset and bin name limitations

The maximum number of characters in an asset path name, including the bin name, is 259 characters. This includes separators such as "\" and parts of the path name that are not visible in AppCenter. The file system limits the number of bytes in a name as well as the number of characters. The values in this table apply to names in English and other languages referred to in ISO 8859-1. The full count of 259 characters might not be available with some other character sets.

Asset name, bin name, and path				
Sections of an asset/path name	The rest of the path name (i.e. everything apart from the bin and asset names)	Bin name	Asset media directory and extension	Asset name and extension
Naming limitation	This part of the path name is not visible in AppCenter.	The bin name can be up to 227 characters (which would leave room for only a 1-character asset name)	This part of the path name is not visible in AppCenter. The directory name is the same as the asset name. 4 characters are reserved for the extension.	The extension is not visible in AppCenter. At least 25 characters are reserved for the asset name and extension, even if they are not all used.
Example	<code>\media</code>	<code>\mybin1\mybin2</code>	<code>\MyVideo.cmf</code>	<code>\MyVideo.xml</code>

The following examples show how a path name would appear in AppCenter and in the file system.
In AppCenter:

```
V:\mybin1\mybin2\MyVideo
```

In the file system:

```
V:\media\mybin1\mybin2\MyVideo.cmf\MyVideo.xml
```


Bin nesting limitations

The K2 media database supports nine levels of nested bins. This includes the top level (first) bin. Exceeding this specification results in a database error. When creating a bin do not create a bin at level ten or deeper.

For example:

- The following is supported:

```
default\en\fr\es\de\it\be\dk\cn
```

- The following is not supported:

```
default\en\fr\es\de\it\be\dk\cn\jp
```

Formats supported for import and export

When you import or export files using the GV STRATUS application, your K2 Summit/SAN system does the actual import/export. Therefore, if a format is supported for import/export in the GV STRATUS application, it must be supported on the K2 Summit/SAN system.

The following formats are supported for import/export using the GV STRATUS application:

- GXF
- MXF
- QuickTime
- MPG (for import only); including support for both MPG Transport Stream files (TS) and Programme Stream files (PS)

In addition, the following formats are supported for import/export on K2 Summit/SAN systems. By using the K2 AppCenter application or other file interchange mechanisms supported on K2 Summit/SAN systems, these formats can be used to make assets available to the GV STRATUS system:

- AVI
- MPEG
- P2
- WAV

Refer to topics in this section for detailed information about file interchange with these formats.

About file interchange mechanisms on K2 systems

K2 Summit, Solo, and SAN systems can send and receive files as follows:

- File based import/export — This is based on a file that is visible from the operating system. For example, AppCenter import/export features are file based.
- HotBin import/export — This is file based import/export, with automated features that are triggered when a clip is placed in a bin. Some HotBin functionality requires licensing.
- FTP stream — This is file interchange via File Transfer Protocol (FTP).

GXF interchange specification

This specification applies to GXF file transfer, import, and export on K2 Summit, Solo, and SAN systems.

Streaming between online K2 systems supports complex movies and agile playlists of mixed format.

Formats are supported are as follows:

Supported formats		Notes
Video	DVCPRO25	—
	DVCPRO50	—
	DVCPRO HD	Super Slo-Mo requires software version 7.1.x or higher
	DVCAM	—
	MPEG-2	Includes all MPEG-2 formats (IMX, XDCAM, etc.) that can be stored on a K2 system
	AVC-Intra	—
	H.264	Playable on K2 Summit 3G system only. Can transfer to systems with K2 software version 8.x and higher.
	Avid DNxHD	Playable on K2 Summit 3G system only. Can transfer to systems with K2 software version 8.x and higher.
Audio	48 kHz	—
	16 bit, 24 bit	—
	PCM, Dolby-E, AC-3	—
Data	VBI	—
	Ancillary	—

Interchange mechanisms are supported as follows:

Mechanism		Support
File based	Import	Yes
	Export	Yes
FTP stream	Import	Yes
	Export	Yes

MXF interchange specification

This specification applies to MXF file transfer, import, and export on K2 Summit, Solo, and SAN systems.

MXF supports simple clips with a single video track only.

Formats are supported as follows:

Supported formats		Notes
Video	DVCPRO25	—
	DVCPRO50	—
	DVCPRO HD	Super Slo-Mo requires software version 7.1.x or higher
	DVCAM	—
	D10	See MXF export behavior for eVTR style D10AES3.
	MPEG-2	Includes all MPEG-2 formats (IMX, XDCAM, etc.) that can be stored on a K2 system
	AVC-Intra	—
	Avid DNxHD	Playable on K2 Summit 3G system only. Can transfer to systems with K2 software version 8.x and higher.
Audio	48 kHz	—
	16 bit, 24 bit	—
	PCM, Dolby-E, AC-3	—
Data	VBI	MXF supports either ancillary data packets or VBI lines in the data track but not both, so if ancillary data packets and VBI lines have been recorded into the K2 clip's data track, then the VBI lines will be dropped from the MXF data track on an MXF export.
	Ancillary	—

Interchange mechanisms are supported as follows:

Mechanism		Support
File based	Import	Yes
	Export	Yes
FTP stream	Import	Yes
	Export	Yes

With a special export option, you can export a completed continuous (loop) record clip as MXF or QuickTime, with the result being a flattened stream file. Recording must be complete before you export the clip, however you can make sub-clips while record is underway and export the sub-clips. For this feature, MPEG-2 long GoP is not supported.

MXF export behavior on K2 systems

Upon MXF export the K2 system checks clip structure for specifications as they apply to industry standard formats such as Sony XDCAM (SMPTE RDD-09) and Sony eVTR style (SMPTE ST 386). If specifications match, the media is exported as the appropriate format.

The K2 system allows you to override the MXF export behavior so that the exported MXF file no longer match the specifications for the industry-standard format. For example, you can export a clip containing more audio tracks than constrained by the specific MXF standard for the maximum number of audio tracks in a D10AES3 channel. If you export a clip with such an override, the K2 will generate a generic MXF op1a file (instead of the default D10 or XDCAM constrained MXF file).

About MXF with DIDs and SDIDs

You can import and export MXF containing ANC packets and VBI lines as specified in SMPTE ST 436. The K2 system extracts the ANC packets or VBI lines to the K2 clip's data track.

MXF Export Type

When importing and exporting MXF the K2 system behaves as follows, in relation to the MXF Export Type setting in K2Config or in K2 AppCenter:

- The MXF Export Type setting applies to all MXF exports on the K2 system. There is one setting for one K2 system. The K2 system can be a stand-alone K2 Summit/Solo system or a K2 SAN. If a K2 SAN, the one setting applies to the K2 Media Server with role of FTP server that handles exports for all SAN-attached K2 Summit systems.
- For export, the K2 system must be set to one of the following MXF Export Types:
 - **377M**: SMPTE ST 377:2004 compliant. Ensures compatibility with older products.
 - **377-1**: SMPTE ST 377-1:2009 compliant.
 - **ARD and 377-1**: ARD is only for AVC-Intra Class 100 (720p and 1080i PAL only) and XDCAMHD-422 (1080i PAL only).
- By default the K2 system is set to SMPTE ST 377:2004. This setting is only applicable to the MXF op1a import and export.
- The SMPTE ST 377:2004 setting is recommended for compatibility with older systems which do not support SMPTE ST 377-1:2009.
- The following format does not support SMPTE ST 377-1:2009 export. Therefore the format is always exported as SMPTE ST 377:2004, regardless of the MXF Export Type setting:
 - D10 media
- ARD profile is the MXF profile based only on AVC-Intra Class 100 and XDCAMHD-422 formats for compliance with ARD consortium.

- The following format does not support ARD export. Therefore the format is always exported as SMPTE ST 377-1:2009, when **ARD and 377-1** option is selected:
 - DV media
 - Avid DNxHD media
 - Media in NTSC format
- For import, both SMPTE ST 377:2004 and SMPTE ST 377-1:2009 are supported, regardless of the MXF Export Type setting. The MXF Export Type setting affects export only.

AMWA AS-02 interchange

The K2 system behaves as follows in relation to the Advanced Media Workflow Association (AMWA) AS-02 version 1.0: 2011 MXF Versioning Specification:

- The K2 system supports the AS-02 specification with no customizations
- Supports import of AS-02 content
- Plays media imported with AS-02
- Exports media to AS-02 content
- Requires license K2-ExtendedFileServices.

QuickTime interchange specification

This specification applies to QuickTime file transfer, import, and export on K2 Summit, Solo, and SAN systems.

The following are not supported:

- Sequences and lists
- Lists of mixed formats or containing empty tracks, such as tracks that do not contain recorded media

Formats are supported are as follows:

Supported formats		Notes
Video	DVCPRO25	—
	DVCPRO50	—
	DVCPRO HD	Super Slo-Mo requires software version 7.1.x or higher
	DVCAM	—
	AVC-Intra	—
	D10/IMX	—
	XDCAM-HD	—
	XDCAM-EX	—
	XDCAM-HD422	—

Supported formats		Notes
Audio	H.264	Playable on K2 Summit 3G system only. Can transfer to systems with K2 software version 8.x and higher.
	Avid DNxHD	—
	48 kHz	
	16 bit, 24 bit PCM	
Data	None	—

Interchange mechanisms are supported as follows:

Mechanism		Support	
File based	Import	Yes	
	Export	Yes	
FTP stream	Import	Yes	FTP import (FTP put) of a QuickTime file is internally handled in two stages. The FTP put will result in the QuickTime file being internally copied and the FTP status will reflect the status of this copy. When the entire QuickTime file is copied, the K2 will internally import the copied QuickTime file and the imported file will then become available as a K2 clip.
	Export	Yes	NOTE: FTP get of a growing K2 clip (a K2 clip being recorded or imported) is not supported.

With a special export option, you can export a completed continuous (loop) record clip as MXF or QuickTime, with the result being a flattened stream file. Recording must be complete before you export the clip, however you can make sub-clips while record is underway and export the sub-clips. For this feature, MPEG-2 long GoP is not supported.

QuickTime video and key import specification

This specification applies to importing a QuickTime file with an alpha channel. This is a licensed feature.

The imported file must be QuickTime 32 with alpha RLE 32-bit raster encoding, as produced by the Apple Animation Codec.

Supported video formats for import are as follows:

Format	Scan	Frame Rate
SD video	720 x 480	Interlaced
		29.97

Format		Scan	Frame Rate
	720 x 512	Interlaced	29.97
	720 x 576	Interlaced	25
	720 x 608	Progressive	25
HD video	1920 x 1080	Interlaced	29.97, 25
	1280 x 720	Progressive	59.94, 50

Supported audio formats for import are as follows:

Format		
Audio tracks (if present)	48 kHz	Mono or stereo
	16 bit, 24 bit	
	PCM	

Interchange mechanisms are supported as follows:

Mechanism		Support	
File based	Import	Yes	
	Export	No	
FTP stream	Import	Yes	FTP import (FTP put) of a QuickTime file is internally handled in two stages. The FTP put will result in the QuickTime file being internally copied and the FTP status will reflect the status of this copy. When the entire QuickTime file is copied, the K2 will internally import the copied QuickTime file and the imported file will then become available as a K2 clip.
	Export	Yes	NOTE: FTP get of a growing K2 clip (a K2 clip being recorded or imported) is not supported.

When K2 software imports a file that meets the above requirements, it creates a K2 clip with two video tracks, in formats as follows:

Format			Frame Rate	Data Rate
SD video	D10/IMX	720 x 512	29.97	50 CBR
	D10/IMX	720 x 608	25	50 CBR
HD video	AVC-Intra Class 100	1920 x 1080	29.97, 25	100 Mbps
	AVC-Intra Class 100	1280 x 720	29.97, 25	100 Mbps

Audio tracks, if present are imported.

Timecode data is imported as K2 striped timecode. The first timecode value is the starting value and subsequent timecode is continuous.

The import process consumes system resource since this involves video transcoding. Be aware of this if running other resource intensive processes during import.

GV STRATUS Rundown Operation

Introducing GV STRATUS Rundown

About GV STRATUS Rundown

GV STRATUS Rundown is a playback control system that controls media servers for live playback. It includes tools to integrate the program production workflow between a media server, editing application, GV STRATUS media workflow application framework, and optionally a newsroom computer system.

GV STRATUS Rundown is compatible with these systems:

Media Server	K2 Media Server and Media Client
	K2 Summit Production Client
Editing Application	Apple Final Cut Pro
	Adobe® Premiere® Pro CC
	EDIUS Workgroup and EDIUS XS
	Storyboard Editor tool in GV STRATUS
Media Workflow Application Framework	GV STRATUS Media Workflow Application Framework
Newsroom Computer System	Associated Press Electronic News Production System (ENPS)
	Avid Technology iNEWS
	Octopus Newsroom
	Annova OpenMedia
	Evoxe NIS5
	Netia Media
	Ross Inception

By using GV STRATUS Rundown with a media server for server playout in live programs you can effectively replace four to six tape machines, depending on your media server. GV STRATUS Rundown displays each channel simultaneously and you can control playout with a keyboard and mouse, or with GPI buttons.

GV STRATUS Rundown consists of five software components:

- GV STRATUS Rundown application
- Assignment List Plug-in
- Assignment List Manager
- SDB Server
- XMOS Server

Terms You Should Know

To use GV STRATUS Rundown effectively and efficiently, you should become familiar with terms that are frequently used.

Term	Definition
Clip	A piece of media you can edit, containing video, audio, or both. Once a sequence is sent from EDIUS XS or GV STRATUS client to a media server it becomes a clip again. All clips and subclips merge into one clip.
Logical Asset	Combination of the GV STRATUS database information, metadata, physical assets or assets on the server, and proxy assets.
Metadata	Data about data; it can include keywords, timecode information, and other terms that help you find a particular asset.
Physical Asset	The raw program material, such as video or audio.
Placeholder	An item (in the GV STRATUS Rundown Assignment List Manager or the GV STRATUS Assignment List) reserved for a clip that doesn't yet exist or is not complete. Clips are linked to a placeholder in NCS rundowns or via GV STRATUS ActiveX Plug-in.
Proxy	A low-resolution clip that represents high-resolution material.
Script	The textual information for a news story in the newsroom computer system (NCS) rundown. Scripts can also reference electronic media, such as clips from a media server.
Sequence	Edited media, consisting of pointers to different clips and subclips edited using the EDIUS XS or GV STRATUS application.
Story	The story — a collection of clips, sequences, and scripts — is the complete news segment that plays to air.

Overview of GV STRATUS Rundown

GV STRATUS Rundown is a playout control system that links a nonlinear editing system with an electronic news production system, media workflow application framework, and a media server for a complete digital solution.

Playback operators use the main GV STRATUS Rundown application to create new playlists, and to control playlists before and during broadcasts. GV STRATUS Rundown application consists of several components such as Clip Browser, Playlist Overview, Rundown List, Channel windows and Playlist to coordinate playback.



With the integration of GV STRATUS Media Workflow Application Framework in GV STRATUS Rundown, playback operators can search, add, and edit metadata of assets created for broadcasts. The GV STRATUS ActiveX Plugin also allows playback operators to preview assets via the Source Viewer or the Inspector without taking up a channel on the playout server. In order to use GV STRATUS within GV STRATUS Rundown, the STRATUS-ELITE license is needed on the GV STRATUS Core Services server.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

Using GV STRATUS Rundown

GV STRATUS Rundown includes tools to integrate the program production workflow between a media server, an editing application, a newsroom computer system, and the GV STRATUS ActiveX Plug-in.

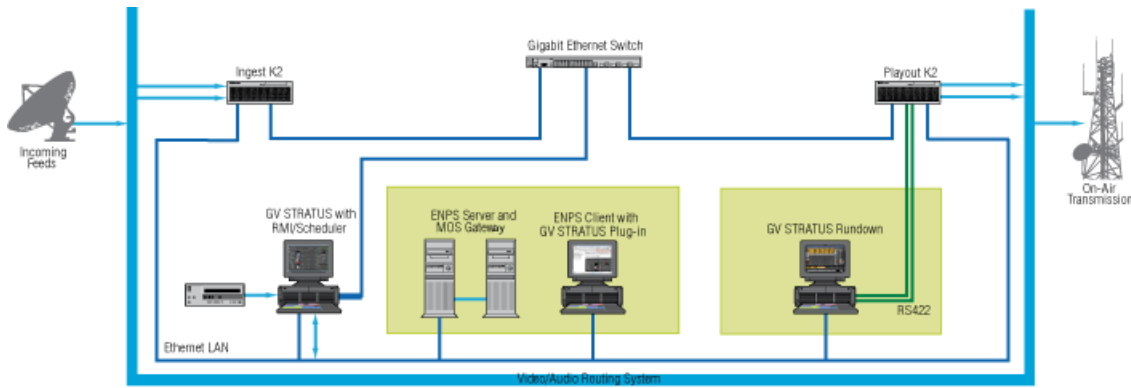
With GV STRATUS Rundown, you can control live playback for your broadcast. You can use GV STRATUS Rundown in two ways:

- Create playlists by linking to a newsroom computer system (NCS)
- Create playlists manually in GV STRATUS Rundown

Linking to a Newsroom Computer System (NCS)

The most efficient way to use GV STRATUS Rundown is with a MOS-compatible newsroom computer system.

The producer uses the newsroom computer system to create rundowns for news shows, and links clips to rundown scripts. After the clips are complete, control room personnel use GV STRATUS Rundown to play out the clips to air.



A typical newsroom workflow using a newsroom computer system (NCS) is:

1. The news producer creates a rundown using NCS.
2. The news producer uses the Assignment List in GV STRATUS ActiveX Plug-in to:
 - Create placeholders for scripts that require clips
 - Assign placeholders to editors
 - Link placeholders to scripts in the rundown
3. The news producer assigns playback channels within the NCS rundown.
4. The news editor creates sequences for assignments.
5. The news editor uses the GV STRATUS Rundown Assignment List Manager to:
 - Receive assignments from the producer
 - Create additional clip placeholders
 - Reassign placeholders to other editors
6. Control room personnel use the main GV STRATUS Rundown application to:
 - Open the producer's rundown playlist
 - Assign clips to specific channels for playback
 - Rearrange, insert, or delete clips prior to broadcast if necessary
 - Play back clips during the news broadcast

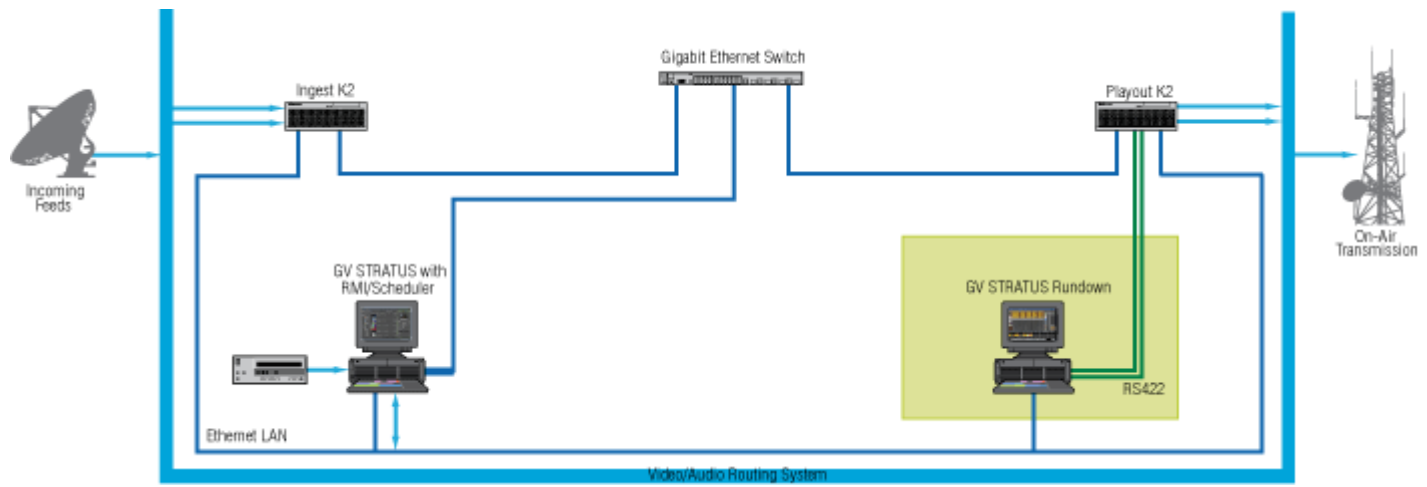
Related Topics

[Using GV STRATUS Rundown](#) on page 1158

Creating playlists manually

When a MOS-compatible NCS is not available, you can manually create rundowns and playlists.

After creating playlists and using placeholders to link to clips, you can cue and play the clips for broadcast.



A typical newsroom workflow using GV STRATUS Rundown to create playlists is:

1. The news producer creates a rundown.
2. The news editor creates sequences for assignments using Storyboard Editor tool in GV STRATUS.
3. The news producer uses the GV STRATUS Rundown Assignment List Manager to:
 - Create placeholders for clips
 - Assign placeholders to editors
4. The news editor uses the GV STRATUS Rundown Assignment List Manager to:
 - Create placeholders for clips
 - Reassign placeholders to other editors
5. Control room personnel use the main GV STRATUS Rundown application to:
 - Create a new playlist and rundown using the scripts from the producer and the clip database
 - Assign clips to specific channels for playback
 - Rearrange, insert, or delete clips prior to broadcast if necessary
 - Play back clips during the news broadcast

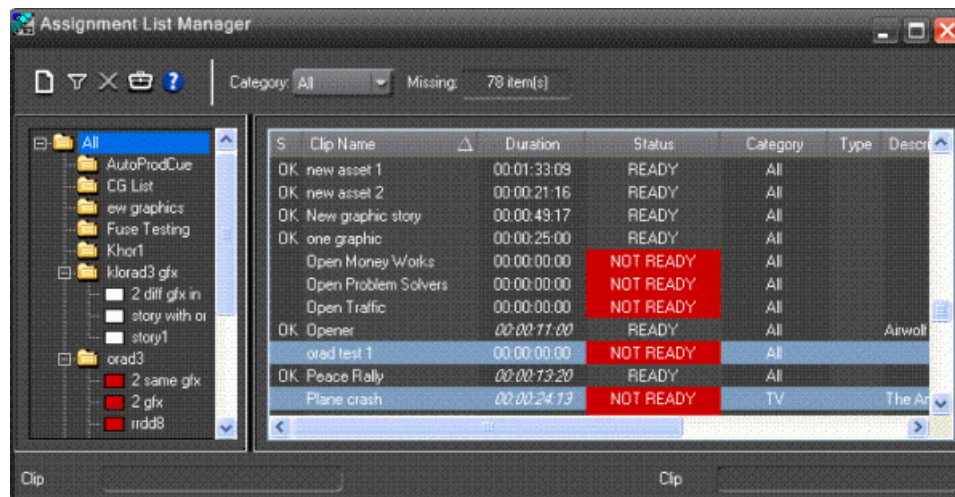
Related Topics

[Using GV STRATUS Rundown](#) on page 1158

Overview of the Assignment List Manager

Producers (or other station personnel) use the standalone Assignment List Manager to determine how many clips are missing for a given news show. Editors use the embedded Assignment List Manager to receive assignments from the producer. Both forms of the Assignment List Manager are used to create additional placeholders for clips and to reassign placeholders to other categories.

The standalone Assignment List Manager runs on any computer on the network—an icon in the task bar flashes red when items in the selected category or rundown are missing.

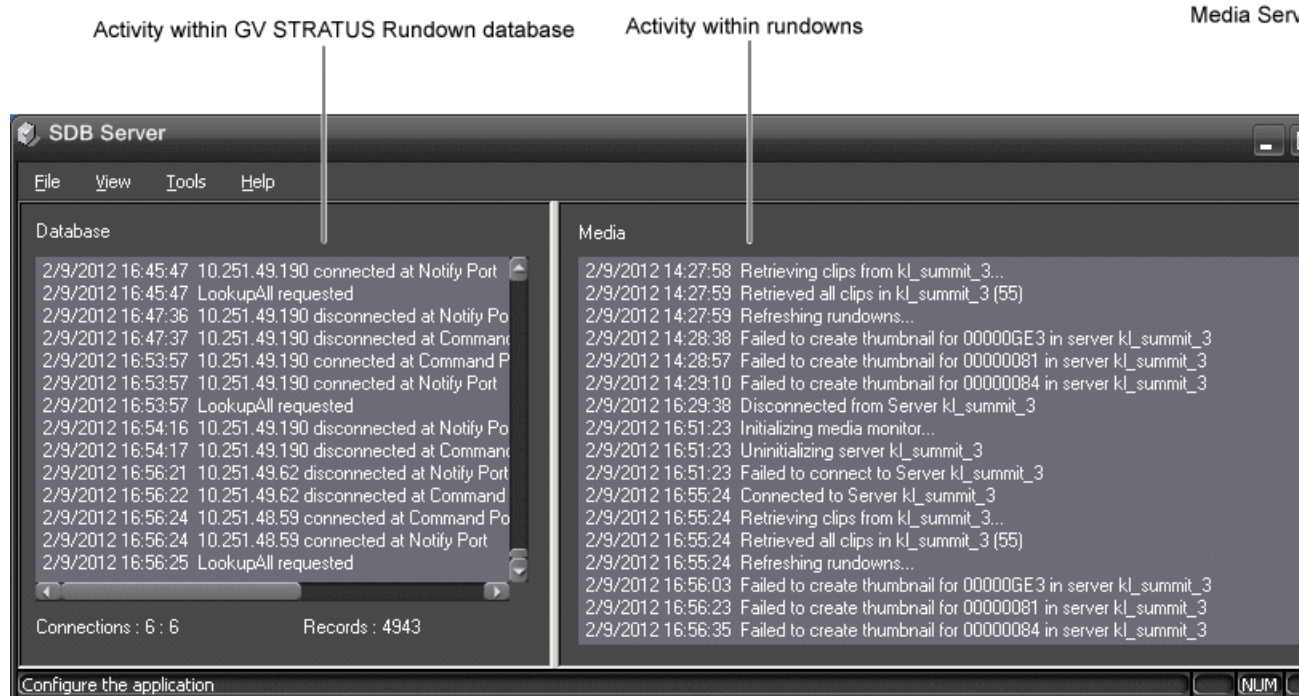


Overview of the Simple Database (SDB) Server

The SDB Server runs in the background to keep clip status current.

When the status of a clip changes, the SDB Server updates available status and clip duration in the database, which in turn updates the GV STRATUS Rundown application. When a clip is associated with a placeholder, the SDB Server updates the number of missing items in the Assignment List Manager, Assignment List Plug-in, and Assignment List tool in the GV STRATUS application.

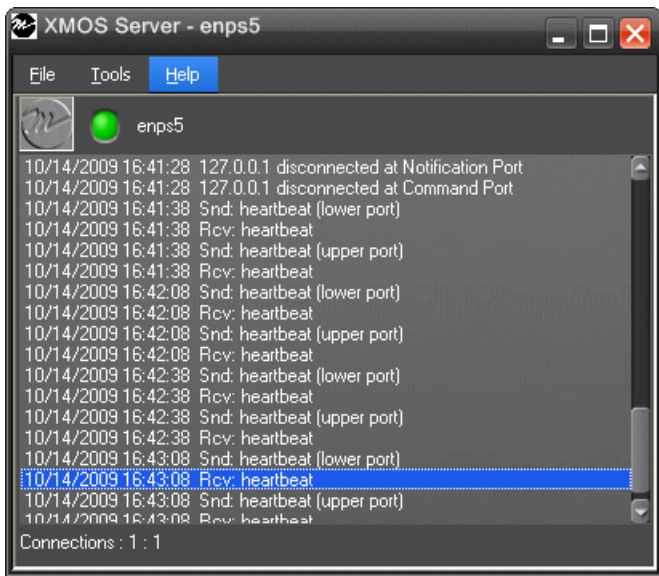
The SDB Server runs on the same computer as the XMOS Server, and optionally on a second system as a hot standby backup database.



Overview of the XMOS Server

The XMOS Server displays the communication between the Newsroom Computer System and GV STRATUS Rundown.

It runs on the same computer as the primary SDB Server.



Installing GV STRATUS Rundown hardware

Hardware installation checklist

Use items in this checklist as appropriate for the optional equipment you are installing for your GV STRATUS Rundown.

Task	Comment
<input type="checkbox"/> Connect GPI inputs and outputs depending on your device type	GPI inputs and outputs can be connected through PCI board or ethernet
<input type="checkbox"/> Connect the RDU 1510 Under Monitor Display	
<input type="checkbox"/> Install X-keys Jog/Shuttle Controller	
<input type="checkbox"/> Next: Network setup and installation checklist	

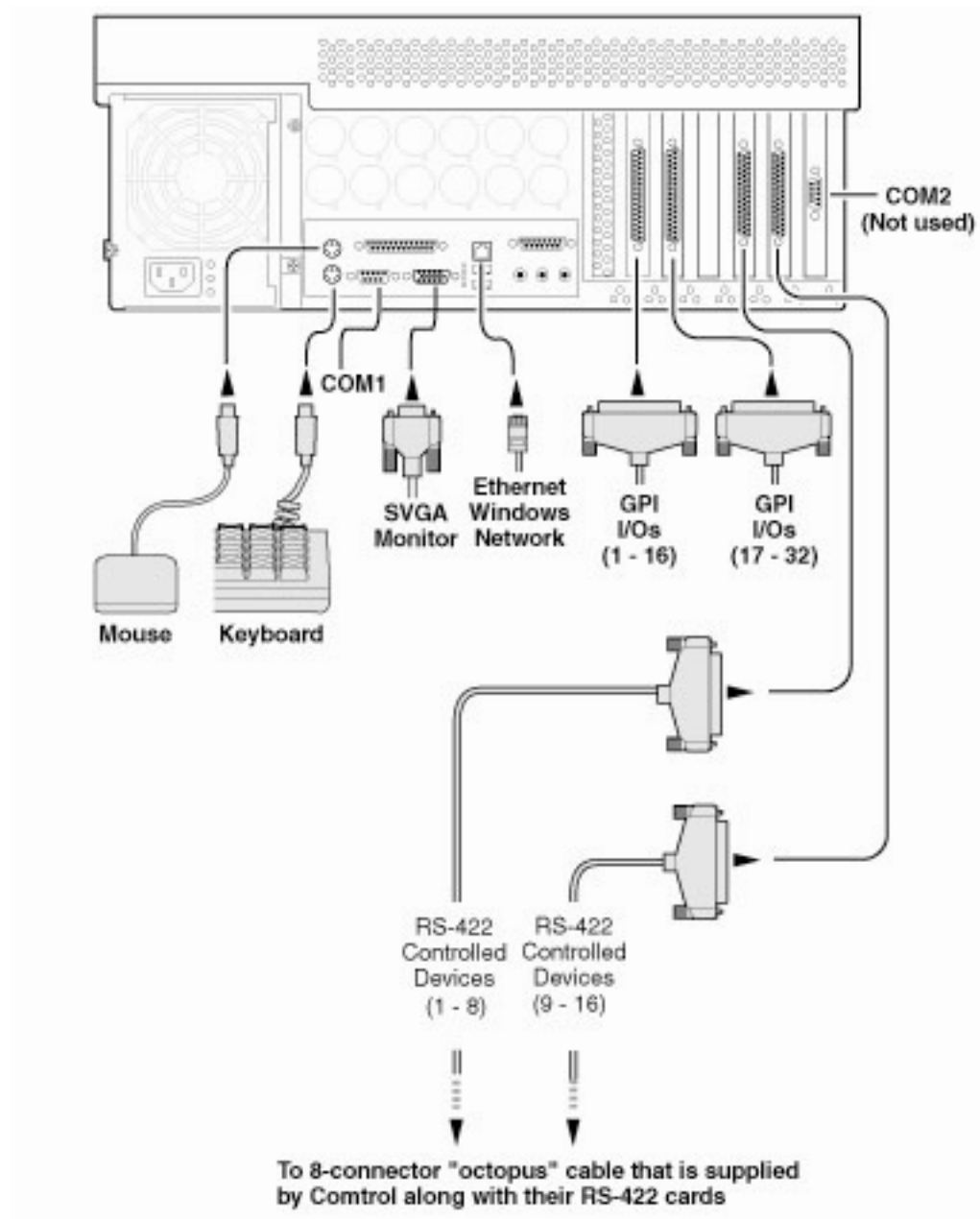
Installing GV STRATUS Rundown Hardware

The GV STRATUS Rundown system which runs on a standard PC, offers coordinated news playback from the K2 Media Server, K2 Summit Production Client and the M-Series intelligent video digital recorder (iVDR). The GV STRATUS Rundown Server can be supplied with all the necessary hardware and software installed. Other GV STRATUS Rundown components can be installed on any PC which meets the system requirement.

Cabling the GV STRATUS Rundown computer

GV STRATUS Rundown is typically installed on a computer with RS-422 boards and GPI boards. Proper cabling is needed for flawless use of the application.

The following illustration provides an example of a typical computer. Your particular computer might be different.



Connect the GPI inputs and outputs using the separate cables and connection blocks as instructed in the Sealevel manuals included with your system.

Related Topics

[Installing GV STRATUS Rundown Hardware](#) on page 1163

Connecting the RDU 1510 Under Monitor Display

A Remote Display Unit (RDU) can be controlled via GV STRATUS Rundown.

Use a cable that has a DB9 serial connector on one end and an RJ11 connection on the other. The DB9 end connects to the COM1 serial port on the back of the GV STRATUS Rundown, and the RJ11 end connects to the port labeled "Control" on the back of the RDU-1510. This is an RS-422/RS-232 serial communication port.

The RJ11 connector's pinout is described in the table below. Pin 1 is at the bottom of the connector. GV STRATUS Rundown can be connected to either pins 3 and 4 for RS-422 or pin 4 for RS-232. When using RS-232, pin 3 must be connected to ground. The remote display unit does not transmit data to this serial port connector.

Pin	Function
1	No connection
2	Ground
3	RS-422 non-inverted data or grounded for RS-232
4	RS-422 inverted data or RS-232 data
5	No connection
6	No connection

Related Topics

[Installing GV STRATUS Rundown Hardware](#) on page 1163

Installing the X-keys Jog/Shuttle Controller (optional)

Once you have installed GV STRATUS Rundown and the other components, you can install the optional X-keys Jog/Shuttle controller.

GV STRATUS Rundown has been designed to work with the X-keys Jog/Shuttle controller (model XPS-08-USB).

1. Plug the X-keys Jog/Shuttle controller into a USB connector on the GV STRATUS Rundown machine.
2. On the GV STRATUS Rundown machine, insert the X-keys Macro Works installation CD and follow instructions. Do not check the box to put shortcuts on the desktop.
If AutoRun is not enabled on your CD-ROM drive, find the file "ainstall.exe" on the installation CD and run it.
3. Reboot the computer when prompted.
4. When the installation has completed, the X-keys Macro Maker and Macro Manager windows automatically pop up. Close these windows. GV STRATUS Rundown comes with a pre-configured X-keys layout.
5. Start GV STRATUS Rundown.
6. In the GV STRATUS Rundown Tools menu, select **Options**.
7. Select the **Function Keys** tab.
8. Verify the "Enable X-keys" box is checked and click **OK**.

Now you can use the X-keys Jog/Shuttle controller.

A default layout has been provided with pre-configured X-keys. You can customize the X-keys to suit your needs.

Related Topics

[Installing GV STRATUS Rundown Hardware](#) on page 1163

Configuring GV STRATUS Rundown

Configuring GV STRATUS Rundown

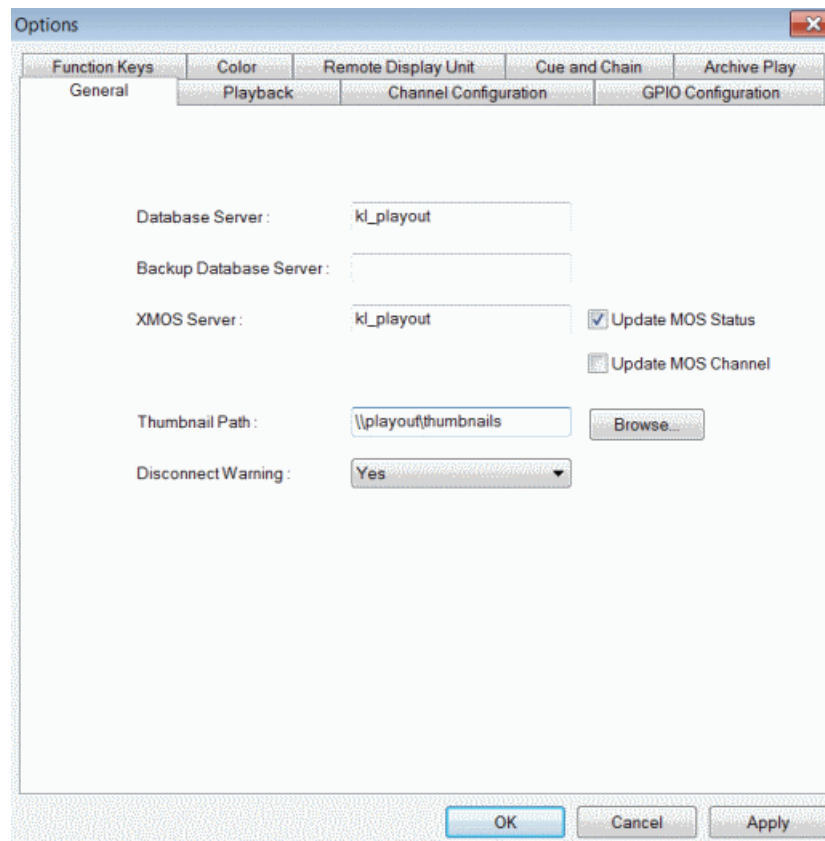
GV STRATUS Rundown has many options that let you define how your system is set up.

If your system is already pre-configured at the factory, you might want to adjust some options based on how you use GV STRATUS Rundown.

Configuring the GV STRATUS Rundown application

Each setting of the GV STRATUS Rundown application is discussed in case you need to reconfigure your system.

1. Choose **Tools | Options**.



The Options window appears.

2. Go through each tab in the Options window and configure GV STRATUS Rundown using the description for each tab.
3. Click **Apply** to apply your settings to each tab.
4. Click **OK** when you are done setting options.

Related Topics

[Configuring GV STRATUS Rundown](#) on page 1166

Setting General options

The screenshot shows the 'Options' dialog box with the 'General' tab selected. The 'Database Server' field contains 'kl_playout'. The 'Backup Database Server' field is empty. The 'XMOS Server' field contains 'kl_playout'. The 'Update MOS Status' checkbox is checked, and the 'Update MOS Channel' checkbox is unchecked. The 'Thumbnail Path' field contains '\\playout\thumbnails' and has a 'Browse...' button next to it. The 'Disconnect Warning' dropdown menu is set to 'Yes'. At the bottom, there are 'OK', 'Cancel', and 'Apply' buttons.

Setting	Options	Description
Database Server		Enter the name of the computer hosting the primary SDB Server.
Backup Database Server		Enter the name of the computer hosting the hot-standby SDB Server.
XMOS Server		Enter the name of the computer hosting the XMOS Server.

Setting	Options	Description
Update MOS Status		By default, the Update MOS Status checkbox is selected. If you have two or more GV STRATUS Rundown systems running, deselect the box on the Tools Options of the backup system. This is to avoid MOS status conflicts when the same rundown is loaded by more than one GV STRATUS Rundown system.
Update MOS Channel		When the checkbox is selected, it enables channel assignments in GV STRATUS Rundown to be updated to the Newsroom Computer System.
Thumbnail Path		Enter the full path to the shared thumbnail directory on the computer where thumbnails are stored, in the format <code>\\server\foldername</code> ; e.g., if you have a shared folder named “thumbnails” on your playout system named “Playout1”, the path would be <code>\\Playout1\thumbnails</code> . This path needs to match the path set in GV STRATUS Control Panel — Applications Rundown SDB SDB Thumbnail Path.

Setting	Options	Description
Disconnect Warning	Yes; No	Select Yes to be alerted before GV STRATUS Rundown disconnects synchronization with the Newsroom Computer System.

Setting Playback options

The screenshot shows the 'Options' dialog box with the 'Playback' tab selected. The settings are as follows:

- Channel Assignment : Soft
- Space Bar Play : Enabled
- Counter Mode : Count Down
- Counter Display : HH:MM:SS:FF
- Stop Cue Delay : 00:00:00:00
- Post Roll Stop : 00:00:05:00
- Out Cue Preview : 00:00:05:00
- Minimum On-Air : 00:00:03:00
- End Blip 1 : 00:00:04:00
- End Blip 2 : 00:00:02:00
- End Blip Stay On : ☐
- Audible Countdown : ☒ (with a 'Browse' button)
- Prevent Pause within : ☐ 2 Seconds of Play
- Prevent Stop Cue Delay on Post Roll : ☐

Setting	Option	Description
Channel Assignment	Soft	When a rundown is loaded, GV STRATUS Rundown does not assign channels to stories; clips will be cued to the first available channel.
	Hard	When a rundown is loaded, GV STRATUS Rundown assigns channels to all stories without a current channel assignment and maintains that assignment regardless of the available channels.
Space Bar Play	Enabled	Enables or disables use of the space bar to play the next cued clip.

Setting	Option	Description
	Disabled	
Counter Mode	Count Down	Sets the clip duration counter to count time down from the clip duration to zero, or from zero up to the clip duration.
	Count Up	
Counter Display	HH:MM:SS:FF	Determines how the counter is displayed.
	MM:SS	
Stop Cue Delay		Determines the amount of time to freeze a clip on its last frame before cueing the next clip on that channel.
Post Roll Stop		When a channel is playing and Play Next is pressed, determines the amount of time that the clip continues to post roll before cueing the next clip to that channel.
Out Cue Preview		Previews the last few seconds of the clip and immediately recues. (The number of seconds that previews is determined by your studio's needs.)
Minimum On-Air		Determines the minimum time that the On-Air GPI trigger must be on before releasing it will send the clip into post-roll and cue the next clip.
End Blip 1 and 2		Determines the amount of time prior to the end of a clip to display an audio/visual warning.
End Blip Stay On		Determines whether the End Blip visual signal remains on once triggered, or just flashes momentarily.
Audible Countdown		Sets an audible countdown before the start of a playback. Only .wav files are supported for the audible countdown setting.
Prevent Pause within X Seconds of Play		Determines whether stop commands (through GPI input or mouse click) can occur within a determined period of time after the playing of a clip begins.

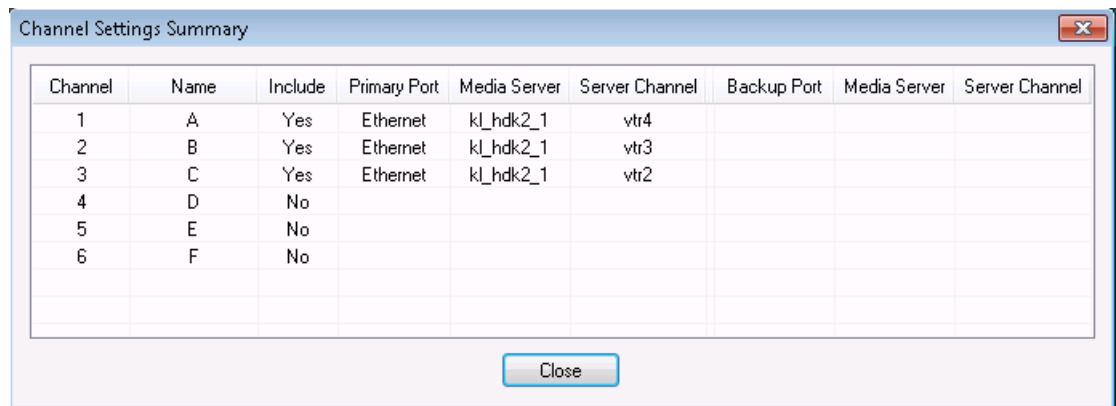
Setting	Option	Description
Prevent Stop Cue Delay on Post Roll		Determines whether there should be a Stop Cue Delay duration when a clip goes into post roll mode by a play next command or tally off-air.

Setting channel configuration

Setting	Options	Description
Select Channel	1-6	Select the channel to configure.
Channel	Channel Name	Enter a name for the channel.
	Include in Rotation	On; Off Check Include in Rotation to include this channel when automatically assigning channels.
	Use Backup	On; Off Check Use Backup if you are using a second media server for mirrored playback.

Setting		Options	Description
Main Playback Channel/Backup Playback Channel	Control Type	RS 422; Ethernet	Select the type of channel connection.
	Playback Control Port		Select the primary port for this channel.
	Media Server		Enter the name of the K2 Media Client, K2 Summit Production Client or M-Series.
	Server Channel Name		Enter the name of the channel you are using for this playback channel. Use the naming convention VTR1, VTR2, etc., for the channel name.


- Click the  button to view the complete list of channel information after the configuration.



The dialog box titled "Channel Settings Summary" displays a table with the following data:

Channel	Name	Include	Primary Port	Media Server	Server Channel	Backup Port	Media Server	Server Channel
1	A	Yes	Ethernet	kl_hdk2_1	vtr4			
2	B	Yes	Ethernet	kl_hdk2_1	vtr3			
3	C	Yes	Ethernet	kl_hdk2_1	vtr2			
4	D	No						
5	E	No						
6	F	No						

A "Close" button is located at the bottom right of the dialog box.

This symbol  indicates that a GV STRATUS Rundown channel is no longer connected to its corresponding channel on the media server. Check the following possible problems; as you cannot remotely control the media server while this symbol is present:

- Playout channels on the media server are not set to use the remote AMP protocol.
- If you are using RS-422, there is no physical serial/network cable connection between GV STRATUS Rundown and the media server used for playout.
- If you are using Ethernet channel connections, the entries for media server or Server Channel Name are not set correctly in the GV STRATUS Rundown Channel Configuration.
- COM ports are set incorrectly in the GV STRATUS Rundown Channel Configuration.

Related Topics

[About Playout channels](#) on page 1225

Configuring General Purpose Input and Output

General Purpose Input Output (GPIO) configuration allows you to connect a switcher or other control device to the GV STRATUS Rundown system and use it to control the GV STRATUS Rundown software.

The screenshot shows the 'Options' dialog box with the 'GPIO Configuration' tab selected. The 'Device Type' is set to 'PCI'. The 'IP Address' field is empty, and the 'Slave ID' is set to '247'. There are two sections: 'GP Input' and 'GP Output'. Both sections have an 'Enable' checkbox which is currently unchecked. The 'GP Input' section has four dropdown menus for 'GP Input', 'Channel', 'First', and 'Third', all set to '<none>'. The 'GP Output' section has three dropdown menus for 'Channel', 'Command', and 'GP Output', all set to '<none>'. At the bottom are 'OK', 'Cancel', and 'Apply' buttons. A 'Summary...' button is located in the top right corner of the dialog area.

Color	Remote Display Unit	Cue and Chain	Archive Play	Graphics
General	Playback	Channel Configuration	GPIO Configuration	Function Keys

Summary...

Device Type : PCI

IP Address :

Slave ID : 247

GP Input

☐ Enable General Purpose Input

GP Input : <none>

Channel : <none>

First : <none>

Second : <none>

Third : <none>

GP Output

☐ Enable General Purpose Output

Channel : <none>

Command : <none>

GP Output : <none>

OK Cancel Apply

GV STRATUS Rundown supports both PCI and ethernet based GPIO depending on your choice of GPIO device. You can select either PCI or Ethernet from the Device Type drop-down list.

For ethernet based GPIO connection, you then need to enter the IP address and slave ID of your GPIO device.

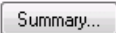
- Check the Enable General Purpose Input box to start configuring your GP Input.

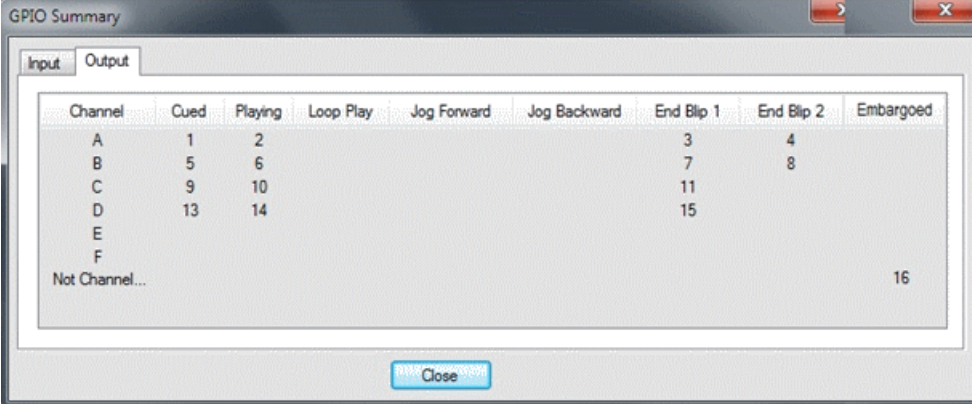
To assign the function of a GP input, select the GP Input number, the channel it affects, and the function you want the GPI to perform.

Setting	Options	Description
Enable GP Input	On (checked); Off (unchecked)	Check Enable General Purpose Input to control the GV STRATUS Rundown software via GP input.
GP Input	1 through 16 or 32	Select the GP input you are configuring.
Channel	<none>; Channel A - F; Not Channel Specific	Select the channel that this GP Input trigger will affect.
GP Input Function for Channel A-F labels: First; Second; Third	Select a function for each GP Input. Each input usually has only one function, though it can perform up to three functions.	
	<none>	The GP Input has no assigned function.
	Play/Stop	Plays or stops the current clip.
	Play	Plays the current clip.
	Stop	Stops playing the current clip.
	Recue	Recues the current clip.
	Cue Previous	Cues the previous clip in the playlist.
	Cue Next	Cues the next clip in the playlist.
	On-Air	Only used with the First GP Input function. Sends the specified channel an On-Air signal. When GV STRATUS Rundown detects a signal, the channel window becomes red to indicate the channel is playing to air. When the On-Air GP Input trigger is held longer than the Minimum On-Air duration specified under Options and then released, the channel goes into post-roll and then cues the next clip.
GP Input Function for Not Channel Specific:	<none>	The GP Input has no assigned function.
	Cue All	Cues a clip into each available channel, starting with the selected clip.
	Play Next	Plays the next clip in the playlist.
	Stop All	Stops all playing channels in the playlist.
	Cursor Up	Selects the previous item in the playlist.
	Cursor Down	Selects the next item in the playlist.

- Check the Enable General Purpose Output box to start configuring your GP Output.
To assign the function of a GP output, select the channel it affects, the command in GV STRATUS Rundown that triggers GP output and the GP output number.

Setting	Options	Description
Enable GP Output	On (checked); Off (unchecked)	Check Enable General Purpose Output to allow GV STRATUS Rundown to trigger GP outputs.
Channel	<none>; Channel A - F; Not Channel Specific	Select the channel that will trigger the General Purpose output. If you select the Not Channel Specific option, the only available option in the Command dropdown is Embargoed .
Command	Cued	The output is set when the channel is cued; reset when the channel is playing or if the clip is ejected.
	Playing	The output is set when the channel is playing; reset when the channel is stopped or the clip is ejected.
	Loop Play	The output is set when the channel is in loop play mode; reset if not in loop play mode.
	Jog Forward	The output is set when the Jog Forward or Jog Backward buttons are pressed; reset when the Play, Stop, or Eject buttons are pressed, or when the channel is re-cued.
	Jog Backward	
	End Blip 1 (Hold till End of Clip)	The output is set when the playing channel reaches End Blip 1; reset when the channel is stopped or the clip is ejected.
	End Blip 2 (Hold till End of Clip)	The output is set when the playing channel reaches End Blip 2; reset when the channel is stopped or the clip is ejected.
	Embargoed	The output is set when the clip is played; reset when the clip is stopped or if the clip is ejected. NOTE: This option is only available when the Channel is set to "Not Channel Specific".
GP Output	<none>; 1-16 or 1-32 (depending on your configuration)	Select the GP output you want to activate.

After configuring your GP inputs and outputs, you can see the overview of your current GPIO setting by clicking the  button.

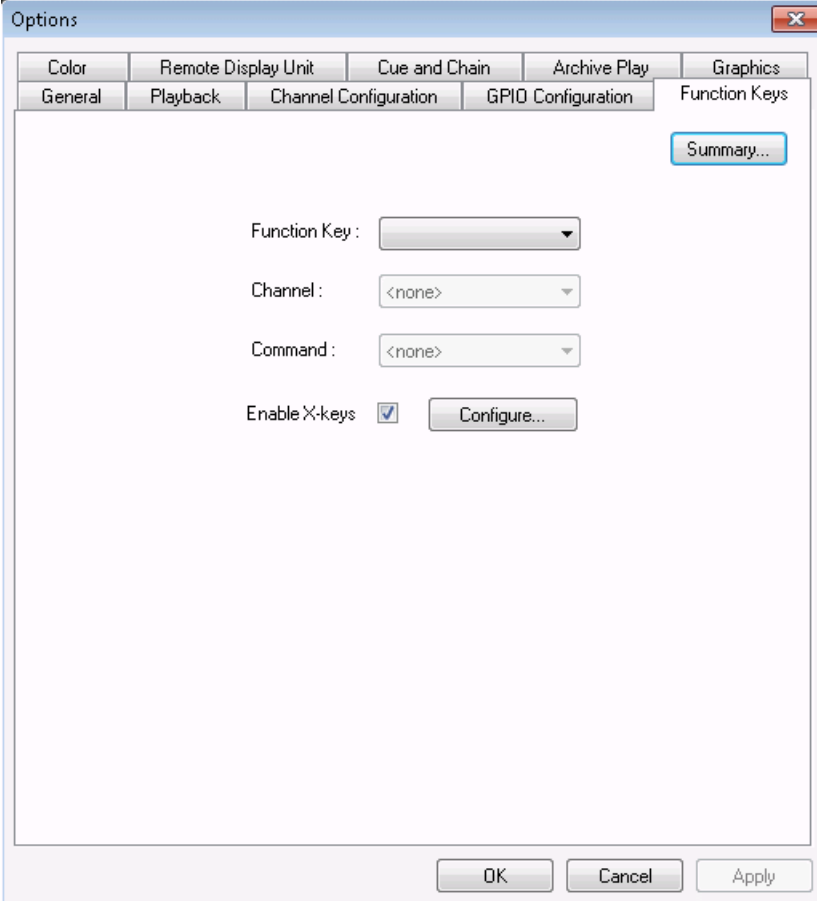


The GPIO Summary dialog box has two tabs: 'Input' and 'Output'. The 'Output' tab is selected, displaying a table with the following data:

Channel	Cued	Playing	Loop Play	Jog Forward	Jog Backward	End Blip 1	End Blip 2	Embargoed
A	1	2				3	4	
B	5	6				7	8	
C	9	10				11		
D	13	14				15		
E								
F								
Not Channel...								16

A 'Close' button is located at the bottom right of the dialog box.

Defining Function Keys



The Options dialog box has several tabs: Color, Remote Display Unit, Cue and Chain, Archive Play, Graphics, General, Playback, Channel Configuration, GPIO Configuration, and Function Keys. The 'Function Keys' tab is selected, showing the following configuration options:

- Function Key:
- Channel:
- Command:
- Enable X-keys: ☒
-

At the bottom of the dialog box are 'OK', 'Cancel', and 'Apply' buttons.

The computer function keys (F1 - F12) provide shortcuts to some GV STRATUS Rundown commands, and are pre-configured by default to control the following functions for channels 1 through 3. You can click the button to view the summary of those pre-configured function key assignments.

GV STRATUS Rundown function	Function Key		
	Channel 1	Channel 2	Channel 3
Play/Stop Cued Clip	F1	F5	F9
Recue Current Clip	F2	F6	F10
Cue Previous Clip	F3	F7	F11
Cue Next Clip	F4	F8	F12

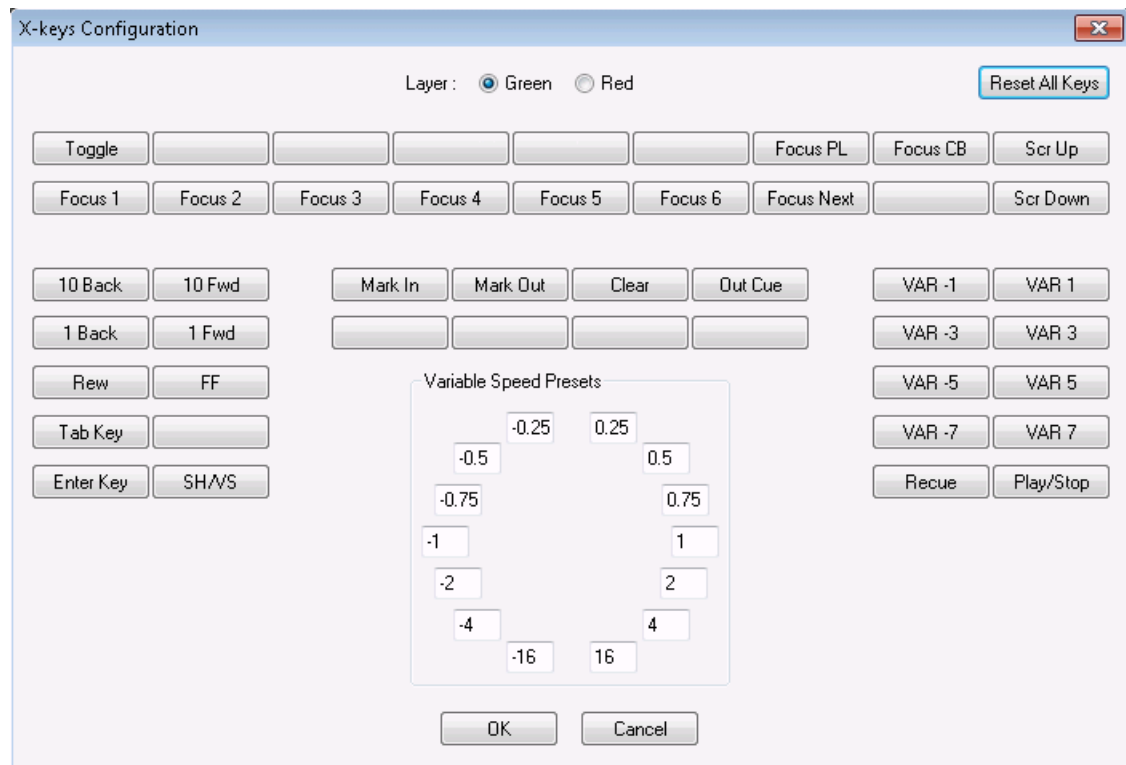
To reassign a function; select the Function Key number, the channel it affects, and the command you want the function key to perform.

Setting	Option	Description
Function Key	F1 through F12	Select the function key you want to set.
Channel	<none>	Select the channel on which the function key will operate.
	Channel 1-6	
Command	<none>	Select the command the function key will perform on the specified channel.
	Play/Stop	
	Recue	
	Cue Previous	
	Cue Next	
Off (unchecked)	Enable X-keys	On (checked)
		Select the Enable X-keys check box to allow GV STRATUS Rundown to use an X-keys Jog/Shuttle controller. Click Configure to define the function of each X-key.

Configuring the X-Keys Controller

You can use GV STRATUS Rundown with the X-keys Jog/Shuttle controller.

Many of the X-keys have been pre-configured on the Green layer; only the Toggle key has been pre-configured on the Red layer. You can change the default layout or add new commands on the unused keys.



NOTE: Before you can use the X-keys Jog/Shuttle controller, you need to install the X-keys Macro Works software. However, do not use the X-keys Macro Maker application to modify the keys.

1. Check **Enable X-keys** on the Function Keys tab and click **Configure**.
2. Click on the key that you want to configure or modify.
A drop-down list displays the available commands.
3. Select a command to apply to this key.
4. Repeat steps 2 and 3 to configure additional keys.
5. Once you have finished configuring keys, click **OK**.

In addition to keys, the controller comes with jog/shuttle knob. The jog control, the center disk of the knob, allows you to make precise frame by frame selections for editing. The outer rim can be used in Shuttle or Varispeed mode. The SH/VS key toggles between the two modes.

Shuttle and Varispeed modes both allow you to play clips at various preset fast forward, rewind, and slow-motion speeds. In Shuttle mode, when you release the knob the clip stops. In Varispeed mode, when you release the knob the clip keeps playing until you press the Stop key.

Using the X-keys Jog/Shuttle Controller

The X-keys controller allows you to simplify your workflow. For example, you can use the default layout to easily navigate between different channels or between the Playlist and Clip Browser windows.

Any commands you send using the X-keys controller apply to the currently active channel or window, which is considered to have **focus**. When a channel has focus, you can perform tasks such as navigating through a clip or trimming a clip. When a window has focus, you can scroll through the clips or the playlist. Always bear in mind that you need to give focus to a channel or window before you can apply the X-keys controller commands to it.

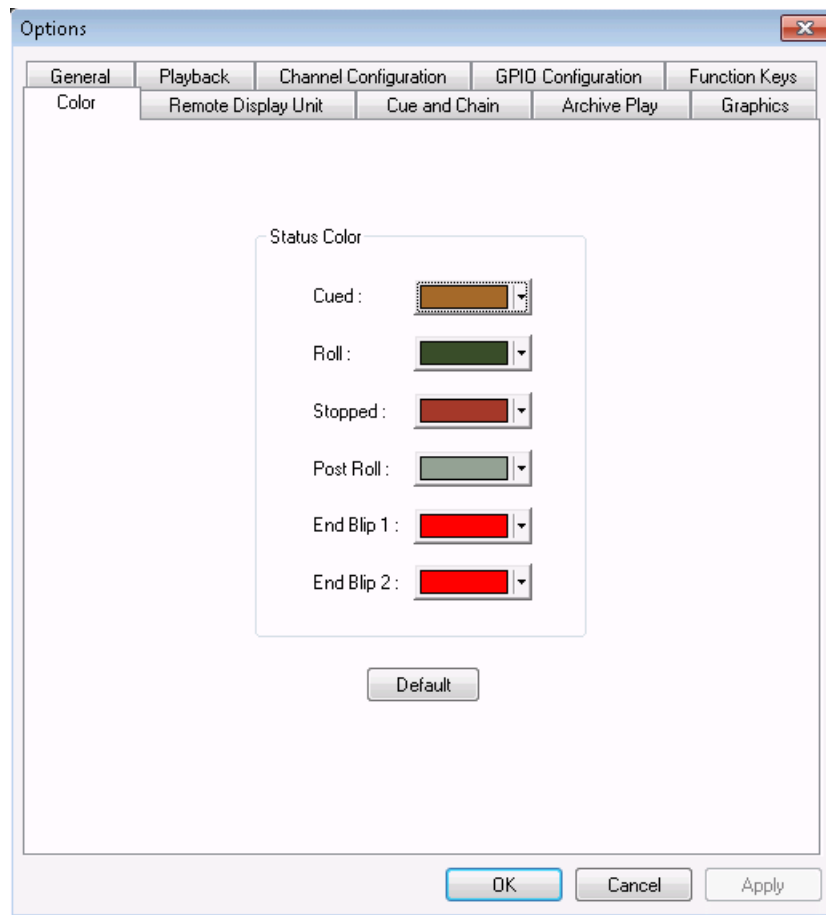
The following table describes the pre-configured keys on the X-keys Jog/Shuttle controller.

Setting	Description
Enable X-keys	Enables or disables the X-keys Jog/Shuttle controller.
Layer	Indicates whether you are configuring the Red or Green layer.
Reset All Keys	Resets all the keys on the particular layer that you are configuring. Reset All Keys does not affect keys that shift between the layers, i.e. the Toggle, Red, and Green keys.
Toggle	While you are using the X-keys controller, Toggle switches between the Red and Green layers.
Focus PL	Gives focus to the main GV STRATUS Rundown Playlist window, that is, makes the Playlist window active. X-keys commands such as scrolling will apply to the window that has focus.
Focus CB	Gives focus to the Clip Browser window, if open. X-keys commands such as scrolling will apply to the window that has focus.
Scr Up , Scr Down	When the focus is on the Clip Browser window, you can press the Scroll Up or the Scroll Down button to select a clip in the Clip Browser. When the focus is on the main Playlist window, you can press the Scroll Up or the Scroll Down button to select a clip in the Rundown.
Focus 1-6	Gives focus to the specified channel. X-keys commands such as those related to playing, shuttling, or trimming a clip in a channel will apply to the channel that currently has focus.
Focus Next	Gives focus to the next channel. All X-keys commands will apply to the channel that currently has focus.
10 Back	Jogs the clip backward 10 frames.
10 Fwd	Jogs the clip forward 10 frames.
1 Back	Jogs the clip backward 1 frame.
1 Fwd	Jogs the clip forward 1 frame.
Rew	When the focus is on a channel, you can press the Rew button to rewind the clip in that channel.
FF	When the focus is on a channel, you can press the FF button to fast forward through the clip in that channel.
Tab Key	In message dialog boxes, functions in the same manner as the Tab key on a computer keyboard.
Enter Key	In message dialog boxes, functions in the same manner as the Enter key on the computer keyboard.
SH/VS	Toggles between Shuttle and Varispeed modes.

Setting	Description
Mark In	Marks a new In point for a clip. After trimming, the clip must be recued to apply the new Mark In.
Mark Out	Marks a new Out point for a clip. After trimming, the clip must be recued to apply the new Mark Out.
Clear	Clears the trim marks of a clip.
Out Cue	When a channel has focus, you can use the Out Cue key to activate Out Cue Preview for that channel. This allows you to preview the end of a clip by playing the last few seconds, followed by a recue to the beginning. The duration of the preview can be configured by going to the Tools menu and selecting Options, then changing the Out Cue Preview field on the Playback tab.
VAR -1; VAR 1; VAR -3; VAR 3; VAR -5; VAR 5; VAR -7; VAR 7	These seven speeds correspond to whatever values are typed into the fields in the Variable Speed Presets section of the X-keys Configuration dialog box. When you press a VAR key, the clip plays at the preset speed for that key until you press the Stop key. You can move the wheel to the left to access the negative (backward) speeds, move the wheel to the right to access the positive (forward) speeds.
Recue	Recues the clip.
Play/Stop	Plays or stops the clip.
Variable speed presets	Preset speeds that you can access by using the shuttle/varispeed wheel of the controller or by using the VAR keys. You can modify these to your own settings.

Defining status colors

GV STRATUS Rundown uses color to show clip status.



To change a color, open the drop-down menu for the color you want to change and select a new color.

Setting	Status Description
Cued	The color to indicate that a clip is cued.
Roll	The color to indicate that a clip is playing.
Stopped	The color to indicate that a clip is stopped during play.
Post Roll	The color to indicate that a clip is in post roll.
End Blip 1	The color to indicate the first audio/visual warning.
End Blip 2	The color to indicate the second audio/visual warning.
Default	Resets those colors to the default system colors.

Configuring the Remote Display Unit (RDU)

A Remote Display Unit (RDU) lets you see the clips playing on each channel and the status of each clip.

The RDU usually resides in the control room so that operators can monitor playback status during a broadcast. There are two different RDUs you can use with GV STRATUS Rundown: RDU 1510 or TSI 1000.

Options

General | **Playback** | Channel Configuration | GPIO Configuration | Function Keys

Color | Remote Display Unit | Cue and Chain | Archive Play | Graphics

Type : ☒ RDU-1510 ☐ TSI-1000

Select Unit : 1

Control Com Port :

Color and Font

Text Font : Normal

Normal Color : Green External Color : Amber

On-Air Color : Red On-Air & Ext Color : Amber

Resource

	Display ID	Tally Input
Channel 1 :	1	1
Channel 2 :	2	2
Channel 3 :	3	1
Channel 4 :	4	2
Channel 5 :	5	1
Channel 6 :	6	2

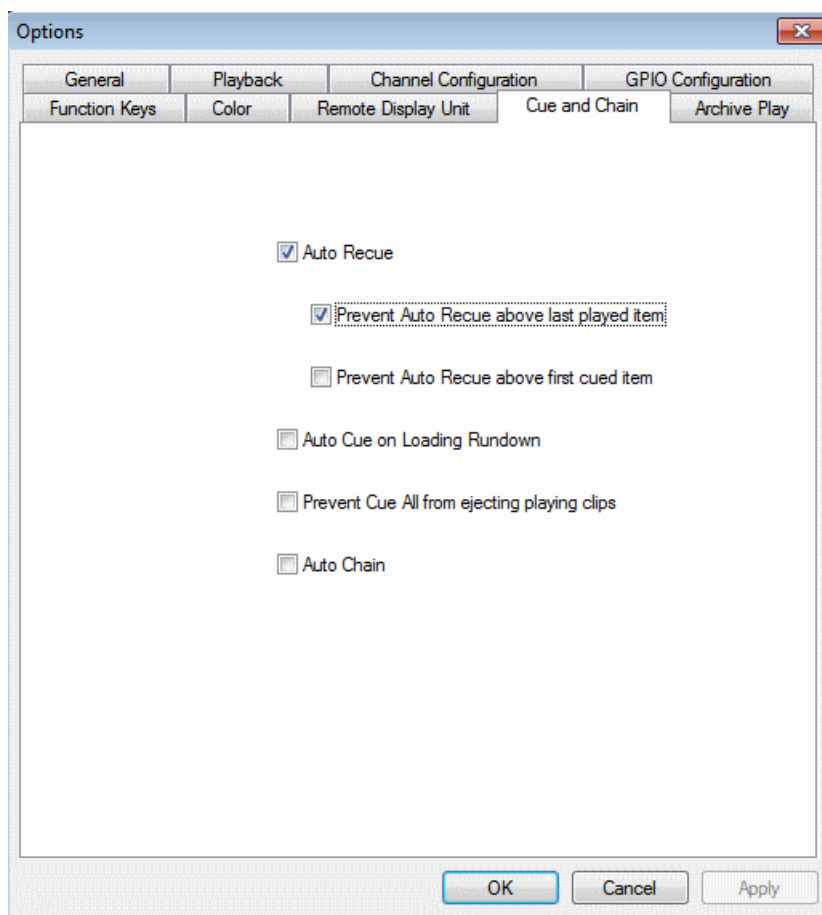
OK Cancel Apply

Setting	Options	Description
Type of Display Unit	RDU-1510; TSI-1000	Select your type of Remote Display Unit.
Select Unit	1; 2; 3	For the TSI, select the unit that you want to use. You can connect the GV STRATUS Rundown system to up to three TSI Remote Display Units. The default values of these units are 1,2, and 3. You can configure these to more appropriate names for your needs.
Control	Com Port; Machine Name	For the RDU 1510, select the Com Port on the GV STRATUS Rundown that the RDU is connected to (usually COM1). For the TSI 1000, enter the IP address or the host name of the TSI 1000 machine.
Color and Font	Text Font Normal; Spaced; Thin; Small	Select the text format to display on the RDU.

Setting		Options	Description
	Normal Color	Red; Green; Amber	Select the color to display on the RDU during normal operation.
	On-Air Color	Red; Green; Amber	Select the color to display on the RDU to indicate a GPI On-Air trigger.
	External Color	Red; Green; Amber	Select the color to display on an external tally device to indicate an input trigger.
	On-Air and External Color	Red; Green; Amber	Select the color to display on the RDU to indicate that both the GPI On-Air and Tally Input are triggered.
Resource	Display ID (1-6) / Resource ID		Enter the Display ID number for each channel on the RDU. The Display ID determines the position of the clip information on the RDU.
	Tally Input (1-2) / Input ID		The Tally Input determines the state of the channel, and the color display associated with the current channel state on the RDU. Typically, these settings should be left at their default values. For more information about tally states, please see the user manual for your RDU.
	Display Size		Check the Size checkbox to display the clip name with the full number of characters allowed. If Full is checked, 19 characters can be displayed. If Full is not checked, 13 characters can be displayed. (TSI-1000 only)

Setting	Options	Description
	Duration	Check the Duration box to display the minute and seconds. (TSI-1000 only)

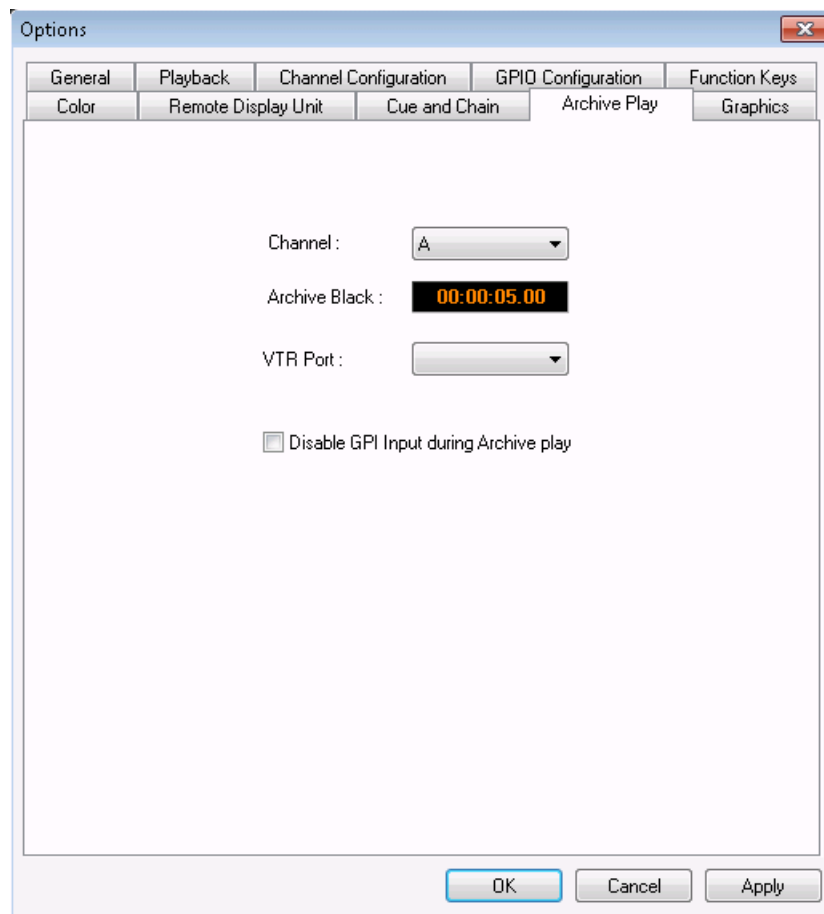
Setting Cue and Chain options



Setting	Description
Auto Recue	Check Auto Recue to automatically recue clips in the playlist when a clip is moved to a new position within the GV STRATUS Rundown playlist or the NCS rundown, or when the status of clips changed to Ready. NOTE: Only one Prevent Auto Recue option can be selected at a time after selecting the Auto Recue check box.
Prevent Auto Recue above last played item	Check Prevent Auto Recue above last played item to avoid automatic recue of clips above the last played item in the playlist. However, clips above the last played item can still be cued manually by the operator.

Setting	Description
Prevent Auto Recue above first cued item	Check Prevent Auto Recue above first cued item to avoid automatic recue of clips above the first cued clip in the playlist. However, clips above the first cued item can still be cued manually by the operator.
Auto Cue on Loading Rundown	Check Auto Cue on Loading Rundown to automatically cue clips into all available channels when you open a rundown.
Prevent Cue All from ejecting playing clips	Check Prevent Cue All from ejecting playing clips to prevent a playing clip from being ejected when the Cue All command is issued.
Auto Chain	Check Auto Chain to have GV STRATUS Rundown automatically chain two or more consecutive clips in a playlist that are assigned to the same channel.

Configuring Archive Play




Setting	Options	Description
Channel	Channel A-F	Select the channel to use for Archive Play. When in Archive Play mode, clips can be cued only to this channel.
Archive Black		Specify the Archive Black duration. Archive Black is the black video that separates each archived clip from the next. The default time is 5 seconds. If it does not already exist on your media server, you must record a black clip and place it in the default media bin. The clip should be about 10 seconds long and must be named "BLACK".
VTR Port		Select the COM port you are using to connect the VTR.
Disable GPI Input during Archive Play	On (checked); Off (unchecked)	Determines whether to disable GPI Input while archiving clips.

Configuring the Simple Database (SDB) Server

When using a Hot Standby SDB Server, you should be logged in as Administrator while making any changes to the Options settings.

NOTE: *If you want to configure the GV STRATUS application with GV STRATUS Rundown, refer to related topics about Rundown configuration settings in the this Topic Library in order to configure the SDB Server.*

The SDB Server provides you with status on all GV STRATUS Rundown playlists associated with NCS rundowns and media servers.

1. Double-click **SDB Server** button  on the desktop; or click the **Start** menu and choose **Programs | Grass Valley | GV STRATUS Rundown | SDB Server**.
2. Choose **Tools | Options**.
The Options window appears.
3. Go through each tab on the Options window and configure SDB Server using descriptions in the following sections.
4. Click **OK**.

Related Topics

[Configuring GV STRATUS Rundown](#) on page 1166

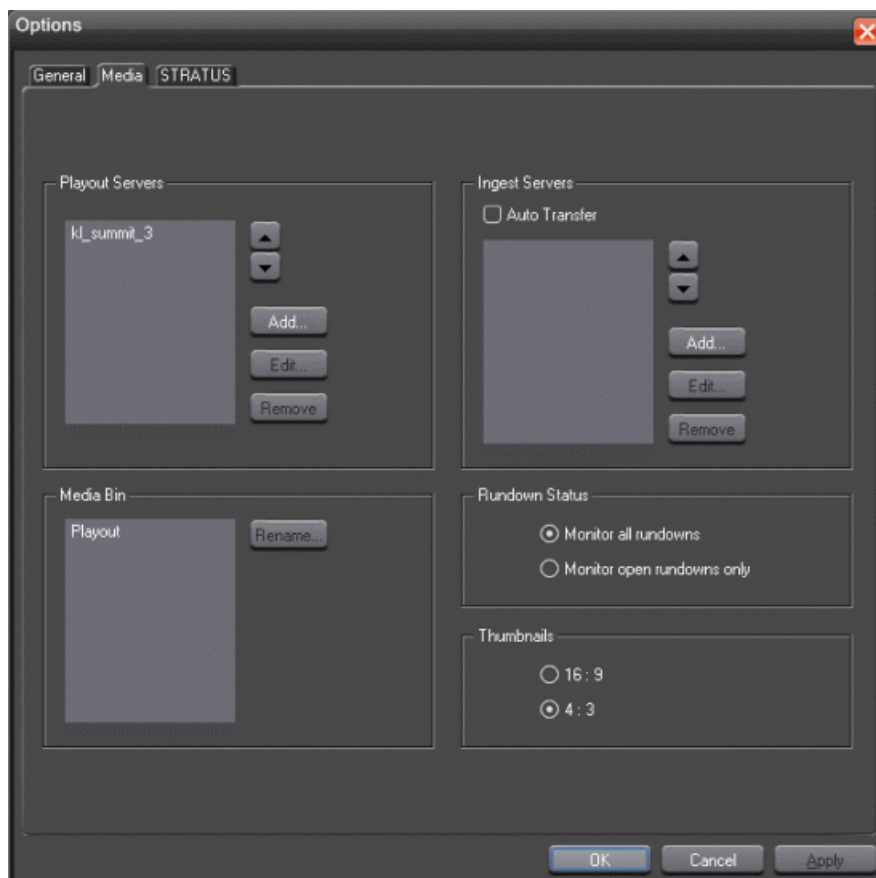
Setting General Options of SDB Server

Setting	Description
Database Identifier	Enter an ID for the database, up to 4 characters, such as your station call letters. All clip IDs will begin with this identifier. This is an optional field.
Mirror Server	Enter the name of the computer hosting the backup database server. For the primary SDB Server, this is the system hosting the hot standby database server; for the hot standby database server, this is the system hosting the primary SDB Server.
XMOS Server	Enter the name of the computer hosting the XMOS Server.
Video Standard	Select your newsroom video standard: PAL, NTSC - Drop Frame, or NTSC - Non-drop Frame.
Database Backup Path	Enter the path for the database backups.
Database Backup Interval	Enter how often you want the database to back up automatically.
Thumbnail Server	Specifies the name of the computer running the Thumbnail Server application (if used).

Setting	Description
Thumbnail Path	Sets the path where the thumbnails will be stored.
Being Edited	Select the color that displays in the Assignment List to alert editors that a sequence is being edited.
Categories	Lets you define categories for sorting and assigning placeholders. To add a category, click Add, enter the name of the category, and click OK. Categories appear in these locations: Assignment List Manager; Housekeeper; GV STRATUS Rundown Clip Browser, and Assignment List in the GV STRATUS ActiveX Plug-in.
Durations	Lets you set default estimated durations for new placeholders. To add a duration, click Add, enter the duration in the format hours:minutes:seconds:frames, and click OK.
Types	Lets you define story types for placeholders. Two story types, SOT (Story on Tape) and VO (Voice Over) are default types. To add a story type, click Add, enter the type, and click OK.

Setting Media options of SDB Server

A K2 system that is a playout server must have a Summit MDI configured in GV STRATUS Control Panel. Refer to related topics in this Topic Library.



Setting	Options	Description
Playout Servers		Defines playout media servers, as configured in GV STRATUS Summit MDI settings. Click Add, enter the Name and Drive where the media is stored on the playout server, and click OK. If you are using mirrored playback, add both servers here.
Ingest Servers		Use the Auto Transfer feature to automatically transfer media from a source (ingest) server to a destination (playout) server. The Auto Transfer takes place only when media that is sent to or recorded on the ingest server is associated with a Playout placeholder that is part of a MOS-Active rundown. To add an ingest server, check Auto Transfer, click Add, enter the name, and click OK. To change the ingest server to a different server, select the server and click Rename. A media server can only be either a source or destination server for Auto Transfer, so the same media server should never be added to both the Playout and Ingest sections. If you are not using Auto Transfer, leave this section blank.
Media Bin		GV STRATUS Rundown creates a default Media Bin where playout media is sent; also used for monitoring ready status and clip duration.
Rundown Status	Monitor all rundowns	Select Monitor all rundowns to update statuses for stories in all active rundowns in your newsroom computer system, regardless of whether they are currently open in GV STRATUS Rundown; this is the default.
	Monitor open rundowns only	Select Monitor open rundowns only to update statuses for only the rundowns that are open in GV STRATUS Rundown; when set, only updates the status column in your newsroom computer system for open rundowns.
Thumbnails	16:9; 4:3	Select the video aspect ratio for thumbnails displayed in GV STRATUS Rundown components.

Related Topics

[Summit MDI standalone settings](#) on page 255

[Summit MDI SAN settings](#) on page 257

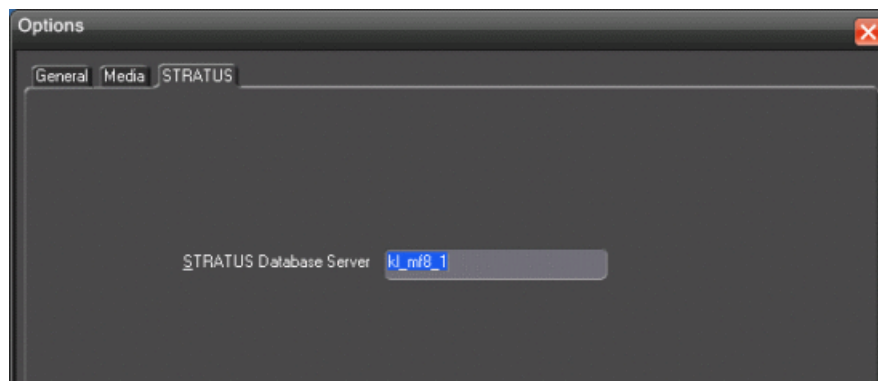
[Media settings](#) on page 326

[Rundown Add/Modify Server settings](#) on page 328

Setting up STRATUS Database Server in SDB Server

To connect to the host of STRATUS Database Server:

1. Click on the **STRATUS** tab.



2. Enter the following system information:

Setting	Description
STRATUS Database Server	Enter the name of the computer hosting the STRATUS Database Server.

3. Click **Apply** and **OK**.

After this setting is configured, STRATUS database can be accessed via the STRATUS ActiveX Plug-in within GV STRATUS Rundown, and proxy paths of assets are available to the newsroom computer system.

NOTE: *If the STRATUS Database Server setting is changed in the STRATUS Control Panel application, you also need to launch and save the Rundown settings in the STRATUS Control Panel to update the configuration. Then, SDB Server needs to be restarted to get the new setting of the STRATUS Database Server.*

Reinitializing media monitor of SDB Server

To refresh rundowns, reinitialize media server connections and update database records, you can select the option to Reinitialize Media Monitor.

This is an option for you to manually execute the refresh function, even though SDB Server would be automatically updated each time there is a new change to your rundown.

To reinitialize media monitor:

1. Click **SDB Server** on the taskbar of your desktop to display the window.
2. Select **Tools | Reinitialize Media Monitor** or press **F5** for the shortcut button.

Repopulating rundown items from SDB Server

The option to repopulate rundown items is useful if you were to accidentally delete placeholders in Housekeeper for an active rundown. You can repopulate those placeholders by selecting this option within SDB Server.

However, this option only repopulate empty placeholders and you still need to associate clips to those placeholders before the rundown is ready for playback.

In the case of a complete loss or corruption of the SDB database, repopulate could be used to rebuild the database by importing placeholders from all MOS active rundowns.

To repopulate rundown items:

1. Click **SDB Server** on the taskbar of your desktop to display the window.
2. Select **Tools | Repopulate Rundown Items**.
You could see the change from “Unknown Placeholder” to the previous name of the placeholder in the rundown list.
3. Open the **Housekeeper** application and associate the clip to the repopulated placeholder.

Restoring backup database of SDB Server

You also have the option to restore your backup database in case the current database is corrupted or your system crashed.

For extra precaution, it is also advisable to have a backup database server on another machine on your network.

To restore the backup database:

1. Click **SDB Server** on the taskbar of your desktop to display the window.
2. Select **Tools | Restore Backup Database**.

Creating a Thumbnail folder

Regardless of which media server you’re using, you need to create a directory in which to store video thumbnails.

To create the Thumbnail folder:

1. Navigate to **C:\GV STRATUS Rundown**.
2. Create a folder and name it **Thumbnails**.
3. Right-click on the folder, select **Sharing**, and click **Share this folder**.
4. Click **OK**.

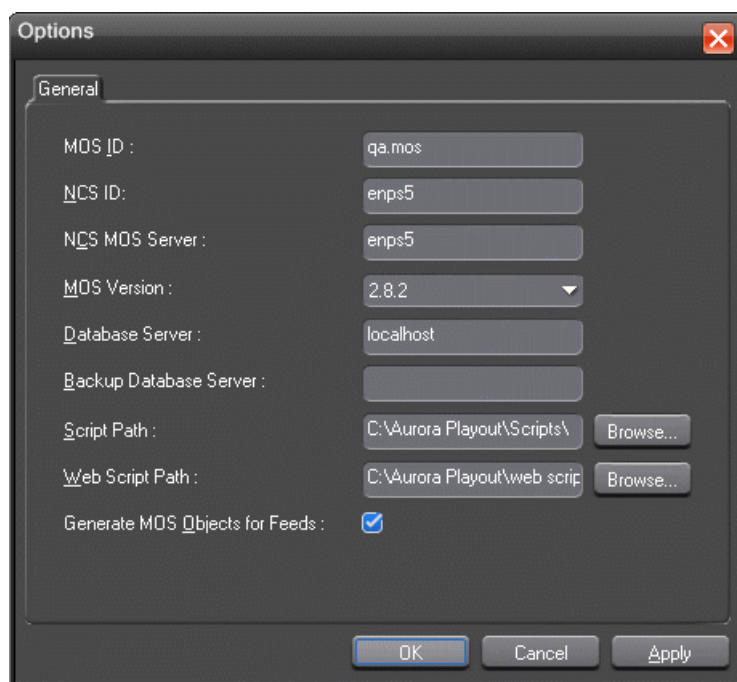
Configuring the XMOS Server

The XMOS Server provides communication between the Newsroom Computer System and GV STRATUS Rundown.

NOTE: *If you want to configure the GV STRATUS application with GV STRATUS Rundown, refer to related topics about Rundown configuration settings in the this Topic Library in order to configure the XMOS Server.*

To configure the XMOS Server:

1. From the **Start** menu, choose **Programs | Grass Valley | GV STRATUS Rundown | XMOS Server**.
2. Choose **Tools | Options**.



The Options window appears.

3. Enter the following system information:

Setting	Description
MOS ID	<p>Enter your MOS ID:</p> <ul style="list-style-type: none"> For ENPS, see ENPS System Maintenance MOS Configuration in the ID column. For iNEWS, this value matches the <mos> value within the configuration file on the iNEWS MOS Gateway at <i>C:/Program Files/Avid/MOS Gateway/mosconfig.xml</i>. For Octopus, see Admin MOS Devices. For OpenMedia, see OMIS OMIS Plugin Types MOS Device.
NCS ID	<p>Enter the name of the server hosting your newsroom computer system:</p> <ul style="list-style-type: none"> For ENPS, the name of the ENPS Server. If you have an ENPS Buddy server, you need to enter both the main and buddy server names in both the NCS ID and NCS MOS Server fields, in the format "MAIN,BUDDY". For iNEWS, the name of the iNEWS Server. For Octopus, see Admin MOS Devices. For OpenMedia, see OMIS OMIS Service Instances OMIS MOS Gateway Properties.
NCS MOS Server	<p>Enter the name of the server hosting the NCS MOS Server component:</p> <ul style="list-style-type: none"> For ENPS, the same value you entered for the NCS ID. For iNEWS, the name of the iNEWS MOS Gateway machine. For Octopus, the name of the Octopus Server machine. For OpenMedia, the name of the MOS Device.
MOS Version	The version number of MOS you are using. Refer to compatible versions in this Topic Library. If your version is unknown, leave the setting at the default value.
Database Server	Enter the name of the server hosting the GV STRATUS Rundown database (primary SDB server).
Backup Database Server	Enter the name of the server hosting the backup GV STRATUS Rundown database (hot standby SDB server). If you are not using a hot standby SDB server, leave this field blank.
Script Path	Enter the full path (or browse) to the directory where scripts are stored.
Web Script Path	Enter the full path (or browse) to the directory where web scripts are stored. Users are able to view scripts created through NCS from a standard web browser such as Internet Explorer and Firefox.
Generate MOS Objects for Feeds	Check the box to enable an enhanced MOS workflow which requires MOS Objects generated for feeds. As assets are embedded with MOS Object IDs in ENPS, they can be searched throughout ENPS and inserted below the black line of the script.

4. Click **OK**.

Related Topics

[Configuring GV STRATUS Rundown](#) on page 1166

Refreshing rundowns in XMOS Server

To reflect new changes on your rundown, you can select the option to refresh rundowns within XMOS Server.

This is an option for users to manually execute the refresh function, even though XMOS Server would be automatically updated each time there is a new change to your rundown.

To refresh rundowns:

1. Double-click **XMOS Server** on the desktop or click the **Start** menu and choose **Programs | Grass Valley | GV STRATUS Rundown | XMOS Server**.
2. Click **Tools | Refresh Rundowns**.

Configuring the standalone Assignment List Manager

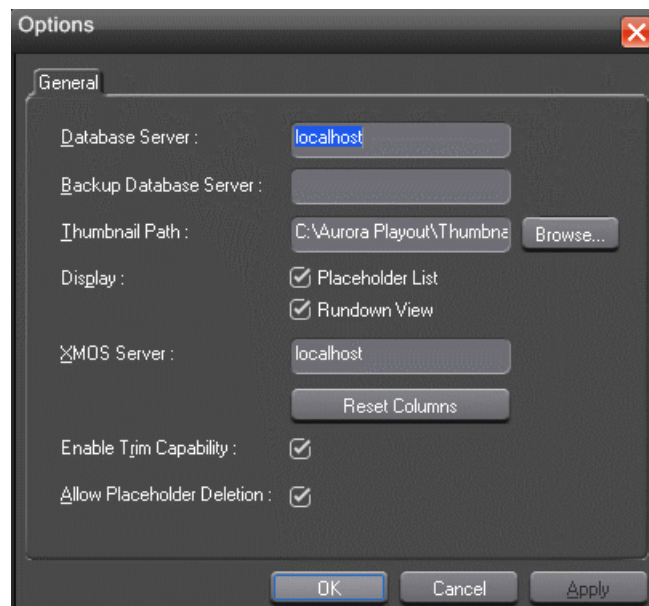
The Assignment List Manager lets producers create placeholders for clips, assign or reassign placeholders to editors, and monitor clip status.

To configure the Assignment List Manager:

1. Click the **Start** menu and select **Programs | Grass Valley | GV STRATUS Rundown | Assignment List Manager**.

The Assignment List Manager appears.

2. Click **Options** button .



The Options window appears.

3. Enter the following system information:

Setting	Options	Description
Database Server		Enter the name of the server where the GV STRATUS Rundown database resides (primary SDB server).
Backup Database Server		Enter the name of the server for the backup GV STRATUS Rundown database (hot standby SDB server).
Thumbnail Path		Enter the full path to the shared thumbnail directory on the computer where thumbnails are stored, in the format \\server\foldername; e.g., if you have a shared folder named “thumbnails” on your playout system named “Playout1”, the path would be \\Playout1\thumbnails.
Display	Placeholder List; Rundown View	Select Placeholder List to display placeholders in the Assignment List Manager or select Rundown View to display the list of rundowns. Both can also be selected to display placeholders and rundowns in the Assignment List Manager.
XMOS Server		Enter the name of the computer hosting the XMOS Server.
Reset Columns		Click the button to reset columns to their original placement if they have been rearranged.
Enable Trim Capability		Check the box if you want to enable trim capability for placeholders.
Allow Placeholder Deletion		Check the box to allow placeholders to be deleted within the Assignment List Manager.

4. Click **OK**.

Related Topics

[Configuring GV STRATUS Rundown](#) on page 1166

Setting up your NCS for GV STRATUS Rundown

Setting Up Your NCS for GV STRATUS Rundown

With GV STRATUS Rundown, you can use your Newsroom Computer System (NCS) to create rundowns and link clips to rundown scripts via Assignment List in the STRATUS ActiveX Plug-in. The MOS-compatible NCS needs to be configured for use with GV STRATUS Rundown.

- ENPS
- iNEWS
- Octopus

- OpenMedia
- NIS5
- Netia
- Inception

To integrate Netia and Inception into the GV STRATUS system, contact Grass Valley Service.

Setting up ENPS for GV STRATUS Rundown

To set up ENPS for use with GV STRATUS Rundown, you need to modify your ENPS configuration.

1. On the ENPS server, find the *enps.ini* file and add the following to the **[ENPS]** section:

```
QTMediaExtensions=.mov, .mp4
```

2. On an ENPS client, log on as the administrator and start up ENPS.
3. From the ENPS folder, select **System Maintenance | Groups | New** and create a new group with these parameters:

ID	KXYZGVG
Description	GV Clips
Server	Select the name of your ENPS server from the drop-down list

4. Click **Save** and close ENPS on the workstation.
5. Close the News Object Manager and it should restart automatically. After the NOM has started, restart the ENPS client.

6. From the ENPS folder, select **System Maintenance | MOS Configuration | New** and create a new MOS entry with these parameters:

ID	The MOS ID; this value is case sensitive and must match the MOS ID configured in the XMOS Server Options. The recommended format is <family>.<machine>.<location>.<enterprise>.mos. Standard practice is to use station call letters for location and station group abbreviation for enterprise.
Description	GV STRATUS - for operation with GV STRATUS. GV Assignment List - for GV STRATUS Rundown operation only.
IP	The IP address or host name of the machine hosting the SDB Server and the XMOS Server.
ActiveX	GV.STRATUS.1 - for operation with GV STRATUS. GVG.XMOSCtrl.1 - for GV STRATUS Rundown operation only.
Default Settings	Leave blank. These settings are configured during installation.
Program	The group ID you configured in step 3.
MOS Version	2.6 or 2.8.2
Local DragDrop	Off
Auto Create	On
Story Send	On

7. From the ENPS folder, select **System Maintenance | Global Configuration Options**, add a new property named `AddMOSObjDuration` and set its value to 1.

NOTE: *AddMOSObjDuration is the optional setting that allows the duration of clips to be automatically included in the rundown timing. If you prefer to manually enter the duration of your story and clips, do not activate this setting.*

8. Add **mp4** to the `MOSBrowseMediaExtensions` property, as can be seen below:

```
MOSBrowseMediaExtensions=bmp,jpg,jpeg,mp4,3gp,wmv,wav,sdp,ts
```

9. Restart the ENPS client application.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Sending scripts with ENPS

The ENPS MOS Story Send feature allows Aurora Edit systems to view scripts.

1. For an existing rundown or template in ENPS, go to Properties.
2. Temporarily toggle the **MOS Control Active** field to **OFF**.
3. Click in the **MOS Story Send** field and turn on the checkbox for the MOS ID used for GV STRATUS Rundown.

4. Toggle the MOS Control Active to ON to make the rundown available to GV STRATUS Rundown.
5. Configure the XMOS Server to write scripts.

Aurora Edit systems will then be able to use the "Link to Story" and "Story View" features.

Setting ENPS MOS ready to air

If you want producers to have the ability to indicate to the GV STRATUS Rundown operation when a rundown is ready, use the ENPS MOS Ready to Air feature.

To set the feature:

- Set the ENPS rundown property "Ready to air" to ON.

A corresponding READY flag is set to ON in the GV STRATUS Rundown rundown window Status column.

Setting up iNEWS for GV STRATUS Rundown

To set up iNEWS for use with GV STRATUS Rundown, you need to add a new MOS device to the iNEWS configuration file:

1. On the MOS gateway machine, open the file C:\Program Files\Avid\MOSGateway\mosconfig.xml.
2. Modify the following lines of the file, adding values for your location:

Value	Description
ncs id	Your Newsroom Computer System name; this value is case sensitive and must match the NCS ID configuration in the XMOS Server options.
host	The hostname of the iNEWS server.
mos	Your MOS ID; this value is case sensitive and must match the MOS ID configuration in the XMOS Server options.
amcp	The tag displayed in iNEWS scripts for placeholders embedded in scripts. This value should match the device name that appears in the iNEWS SYSTEM.MAP file.
network	The hostname of the machine running the XMOS Server.

NOTE: With iNEWS, *<handlesRoItemLevelCommands>* default setting could cause stories to drop to the bottom of the playlist when they are newly inserted, or when their channel assignment is changed. Therefore, *<handlesRoItemLevelCommands>* value should be set to NO in the mosconfig.xml file.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Configuring status translations for iNEWS

To ensure correct status reporting between GV STRATUS Rundown and iNEWS server, you need to edit the status translation table in the iNEWS configuration file.

- The status translation table within the mosconfig.xml file should appear as below:

```
<statusTranslations>
  <statusUnavailable>NOT READY</statusUnavailable>
  <statusCueing>CUEING</statusCueing>
  <statusAvailable>READY</statusAvailable>
  <statusCued>STAND BY</statusCued>
  <statusPlaying>PLAY</statusPlaying>
  <statusPaused>STOPPED</statusPaused>
  <statusStopped>END</statusStopped>
  <statusUnknown>DISCONNECTED</statusUnknown>
</statusTranslations>
```

- On the iNEWS server, your MCS dictionary (located at /site/dict/mcs) would typically contain these lines:

A_EVERR	/5ERROR
A_CAFRZ	/END
A_CATREL	/2STANDBY
A_CATHRD	/THREAD
A_CACUING	/2CUEING
A_CACUED	/2CUED
A_CANOTAPE	/4NOT READY
A_CABIN	/READY
A_CAPLAY	/3PLAY
A_CAPAUSE	/3STOPPED
A_CAREW	/REWIND
A_CAEJECT	/EJECT
A_CAINCMPLT	/TRANSFER

NOTE: Since the statuses that appear in this dictionary can be customized, the values shown in the right column of your MCS dictionary may vary slightly from the ones shown here.

To ensure correct configuration with iNEWS, a sample of the mosconfig.xml file is provided in the appendix section.

Setting up Octopus for GV STRATUS Rundown

In order to use Octopus with GV STRATUS Rundown, you need to configure it first.

To configure Octopus for GV STRATUS Rundown, you need to create an ActiveX device, and modify the MOS Devices configuration.

Related Topics

[Setting Up Your NCS for GV STRATUS Rundown](#) on page 1195

Configuring the MOS Device for Octopus

You need to configure the MOS Device before using Octopus with GV STRATUS.

1. Launch the Octopus client, and click the **Devices** button.

The **Devices** page opens.

2. Click the **New** button on the toolbar.

The **Device** window opens.

3. Configure the Basic tab as follows:

mosID	These values must match those set for the XMOS Server.
ncsID	
Version	This value must match with the version set for the XMOS Server.
Disabled	Unchecked
Media host	Name or IP address of machine hosting the SDB Server.
Media port	SDB Server port (normally won't change from default setting)
Rundown host	Name or IP address of machine hosting the XMOS Server.
Rundown port	XMOS Server port (normally won't change from default setting)

4. Configure the Stories tab as follows:

Option	Setting
Send empty stories	✓
Send production requirements	✓
Send story custom fields	✓
Use standard ed times	✓

5. Configure the Rundowns tab as follows:

Refresh method	roReplace
Send roMetadataReplace	✓
Send broadcast channel name in roChannel	✓
roSlug pattern	%TYPE% %START%

6. Configure the Prompting tab as follows:

Send story text	✓
Keep sending roStoryReplace or roElementAction	✓

7. Configure the Status tab as follows:

Accepts on-air status	✓
Accept status for slugs in not-ready rundowns	✓

a) Create these status categories (these are the suggested names and order):

DISCONNECTED		None	<input checked="" type="checkbox"/>
PLAY		None	<input checked="" type="checkbox"/>
NOT READY		None	<input checked="" type="checkbox"/>
STAND BY		None	<input checked="" type="checkbox"/>
STOPPED		None	<input checked="" type="checkbox"/>
POST ROLL		None	<input checked="" type="checkbox"/>
END		None	<input checked="" type="checkbox"/>
READY		None	<input checked="" type="checkbox"/>

Buttons: New, Move up, Move down, Delete

8. Configure the MOS Objects tab as follows:

Update private objects	✓
Translate redirected IDs	✓
Supports mosListAll	✓
Display name instead of jobID	✓

9. Configure the Placeholders tab as follows:

Allow MOS object creation	✓
Default MOS object creation device	✓
Allow automatic MOS object creation	✓
Use the <mosObjCreate> message	✓
Default duration of created MOS objects	00:00:00:00
Naming pattern of created MOS objects	%NAME

10. On the Other tab, configure as follows:

Send and receive times in UTC	✓
-------------------------------	---

11. Click **OK**.

Creating an ActiveX Device for Octopus

You need to create an ActiveX device before using Octopus with GV STRATUS.

1. Launch the Octopus client, and click the **Devices** button.

The **Devices** page opens.

2. Highlight the MOS ID for GV STRATUS.
3. Click the **Edit** button on the toolbar.

The **Device** window opens.

4. Select the **Plugins** tab, and click **Add**.

The **Plugin** window opens.

5. Configure the device as follows:

Option	Setting
Short Name	User preference (e.g., GV Plug-in)
Long Name	User preference (e.g., GV STRATUS Plug-in)
Size	800 width x 600 height
Type	Player (ActiveX)
Version	1.0 ENPS
Platform	ActiveX
Placement	Modeless
Implementation	GV.STRATUS.1

6. Click **OK** twice.

Using NCS Rundowns and GV STRATUS Rundown

Using NCS rundowns and GV STRATUS Rundown

Producers can use GV STRATUS Rundown with a MOS-compatible newsroom computer system (NCS) to create rundowns, create placeholders for editor assignments, link clips to the rundown and frame-accurately triggered to play-to-air.

Producers can also use the NCS to assign clips to specific playback channels, eliminating the need for a playback operator to assign channels for the rundown.

In sites without an NCS, an editor can follow the producer's script and create placeholders using another component of GV STRATUS Rundown, such as the Assignment List Manager, and have a playback operator manually create playlists.

Using the Assignment List in GV STRATUS ActiveX Plug-in

The Assignment List in GV STRATUS ActiveX Plug-in integrates with your NCS and allows you to create placeholders for clips, assign those placeholders to newsroom editors, and link the resulting clips back to your NCS rundown.

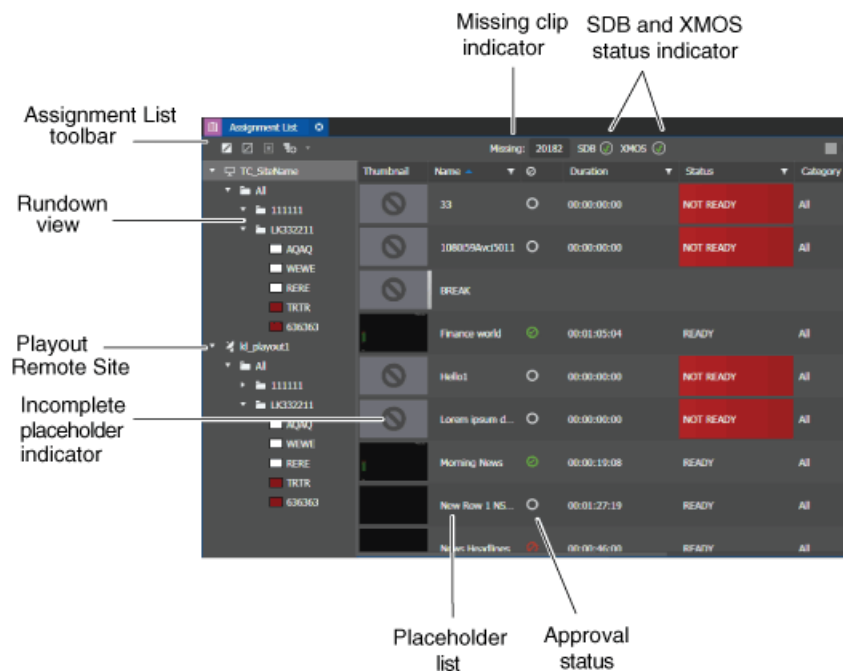
As you use your NCS to create rundowns for news programs and add scripts for each story, you can check the Assignment List in the GV STRATUS ActiveX Plug-in to ensure that the related news clip is ready for your story.

With the integration, you can also add general metadata, keywords and custom metadata on a placeholder. Once the metadata is added, it will be searchable and editable throughout all GV STRATUS clients.






If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata. In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

The Assignment List tool

The Assignment List tool allows you to create placeholders for clips, assign those placeholders to newsroom editors, add new sequence, and link the resulting clips to rundown stories on your Newsroom Computer System. You also need GV STRATUS Rundown components such as SDB Server and XMOS Server to run the Assignment List tool. With the proper license and assigned role, Assignment List appears in the GV STRATUS application as a panel that can be accessed from the Window menu, the tool section of the Navigator panel, and the **Link to Placeholder** tab in the Inspector panel.



The Assignment List panel features are as follows:

- **Toolbar** — Displays buttons to add placeholders, show placeholders with missing clips, delete placeholders, and add new sequence to placeholders.
- **Missing clip indicator** — Displays the number of missing clips that can help you determine the number of incomplete assignments.
- **Incomplete placeholder indicator** — Displays blank thumbnails for incomplete placeholders. Completed placeholders are identified by the thumbnail display and **READY** status in the Status column.
- **Placeholder list** — Displays incomplete and completed placeholders. When you select a rundown, all placeholders in that rundown appear in the placeholder list. When you select a story in the rundown, only placeholders in that story appear in the placeholder list in the same sequence as in the story.
- **Approval status** — Displays the approval status of placeholders. You can only set the approval status on linked placeholders with **Ready** status in the Inspector panel.
- **Playout Remote Site** — Displays placeholders in the remote site. The Playout remote site must be configured in the GV STRATUS Control Panel before it can be accessed via the Assignment List.
- **Rundown view** — Displays rundowns and stories for each rundown. Rundowns display alphabetically in the panel, while stories appear in sequence as assigned in the Newsroom Computer System.
- **SDB status indicator** — Displays the connection status between Assignment List and Simple Database (SDB) Server. The SDB Server updates clip status, clip duration, and amount of missing clips for the Assignment List tool.
 -  — Connected
 -  — Disconnected
- **XMOS status indicator** — Displays the status of XMOS Server. The XMOS Server provides the communication between the Newsroom Computer System and the Assignment List tool.
 -  — Connected
 -  — XMOS Server is disconnected with the GV STRATUS application
 -  — XMOS Server is disconnected with the Newsroom Computer System






With the Assignment List tool, you can create placeholders, monitor rundown or clip status, and view or change placeholder properties.

Standard Asset List features such as filter list, sort list, asset tooltip, and customization of **View Mode** are available in the Assignment List tool.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible.


Assignment List buttons

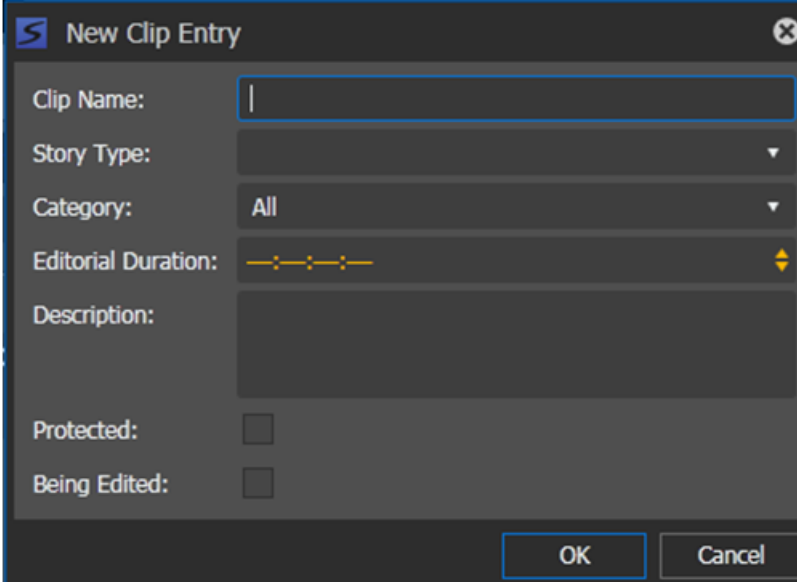
These buttons located on the Assignment List panel let you perform various functions.

-  **New Placeholder:** Adds a new placeholder in the Assignment List tool.
-  **Missing Placeholders Only:** Shows placeholders with missing clips only in the Assignment List tool.
-  **Delete:** Deletes the selected item or items. Disabled if delete rights denied in GV STRATUS Control Panel.
-  **New Sequence:** Creates a new sequence.
-  **New Project in EDIUS:** Creates a new project in the EDIUS XS application.
- Missing :** 86 **Missing Clip indicator:** Shows the number of placeholders with missing clips in the Assignment List tool.

Adding placeholders

Placeholders are essentially assignments for editors, who can then create clips for the story, and send them to a K2 Summit/SAN system for playback. You need to create a placeholder for each clip that you link to a rundown.

1. In the Assignment List tool, click the **New Placeholder** button. 



The image shows a 'New Clip Entry' dialog box with the following fields and controls:

- Clip Name:** A text input field with a cursor.
- Story Type:** A dropdown menu.
- Category:** A dropdown menu set to 'All'.
- Editorial Duration:** A time selection control with a yellow bar and a dropdown arrow.
- Description:** A large text area.
- Protected:** A checkbox.
- Being Edited:** A checkbox.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

The New Clip Entry dialog box opens.

2. Enter the clip name.

The name identifies the placeholder in the Assignment List (which can also be seen in the Newsroom Computer System).

3. You can also provide additional information about the placeholder:

- **Story Type** — Select a Story Type from the drop-down menu. Available story types are **SOT** (Sound On Tape) or **VO** (Voice Over). You can also leave this field blank.
- **Category** — Select a category from the drop-down menu. The category determines how stories are grouped and sorted.
- **Editorial Duration** — Enter a duration for the placeholder. The Editorial Duration is an optional value you can set for an estimated on-air duration of the clip that can be changed to a more precise value later.

NOTE: Editorial Duration has the priority over clip duration. Once an Editorial Duration is set; it will not be adjusted to clip duration, even after clip is associated with the placeholder. The editor needs to set the final Editorial Duration before the clip is sent for playback.

- **Description** — Enter a description for the placeholder. The description helps editors to identify the clip that they need.
- **Protected** — Check this box to prevent the clip from being deleted by other users.
- **Being Edited** — Check this box to indicate when the sequence for a placeholder is currently being edited.

4. Click **OK**.

The new placeholder appears on the Assignment List tool.

NOTE: The Clip ID and Date are set automatically when you create a new placeholder.

Related Topics

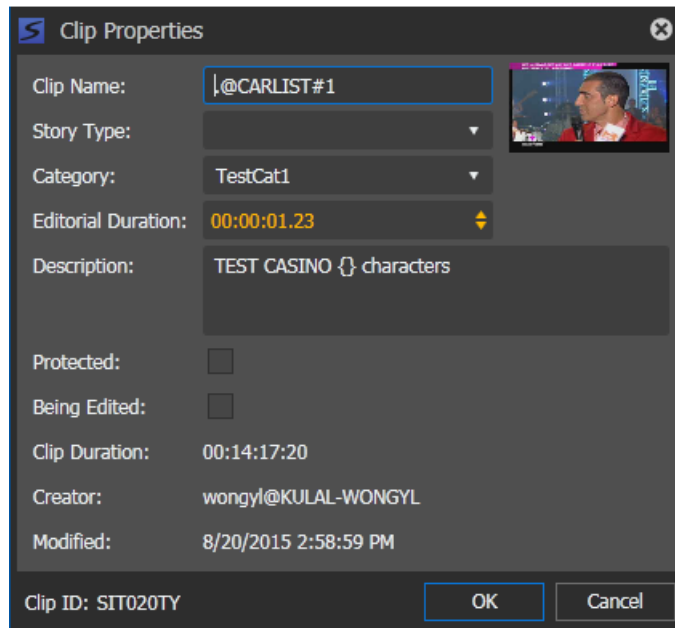
[*Limitations for creating and naming assets and bins*](#) on page 1146

Modifying a placeholder

If you need to, you can change or modify properties of a placeholder.

1. Right-click on the placeholder that you want to modify and select **Edit Properties**.

The Clip Properties dialog box opens.



2. Modify any properties in the dialog box.

NOTE: *Properties that cannot be modified are creator, modified date and clip ID.*

3. Click **OK**.

The placeholder properties are modified on the Assignment List tool.


Related Topics

[Limitations for creating and naming assets and bins](#) on page 1146

Deleting a placeholder

If desired, you can delete placeholders, associated assets, and essences from the Assignment List tool.

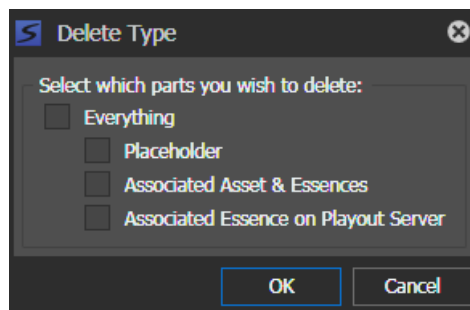
1. Do one of the following to delete a placeholder:

- Select the placeholder that you want to delete and click the **Delete** button. 
- Right-click on the placeholder and select **Delete Placeholder**.

2. Select your options as follows:

- Everything — Select this to delete the entire asset including placeholder, associated asset and essences, and associated essence on the managed Playout Server.
- Placeholder — Select this to only delete the placeholder on the GV STRATUS application.
- Associated Asset & Essences — Select this to only delete the associated asset and essences on your K2 Summit/SAN system.
- Associated Essence on Playout Server — Select this to only delete the associated essence on the managed Playout Server if you already sent it out for playback.

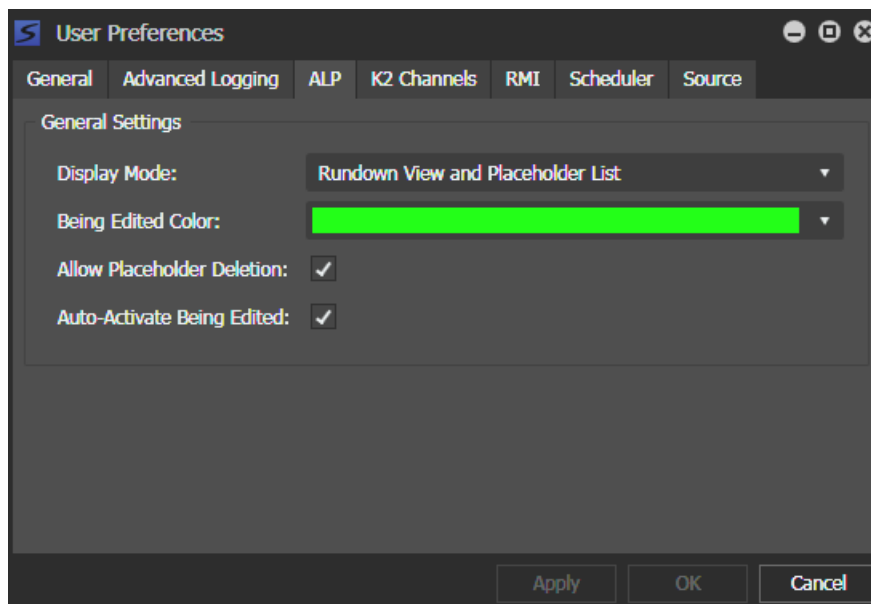
NOTE: *Deletion of essence on an unmanaged playout server is not supported. However, you can still delete via the Aurora Playout Housekeeper application or delete directly on the unmanaged playout server.*



3. Click **OK**.

If the **Delete** button is not selectable or **Delete Placeholder** is grayed out in the context menu, you need to check ALP settings in the User Preferences menu.

Select **Edit | User Preferences | ALP** and check the **Allow Placeholder Deletion** box.




Related Topics

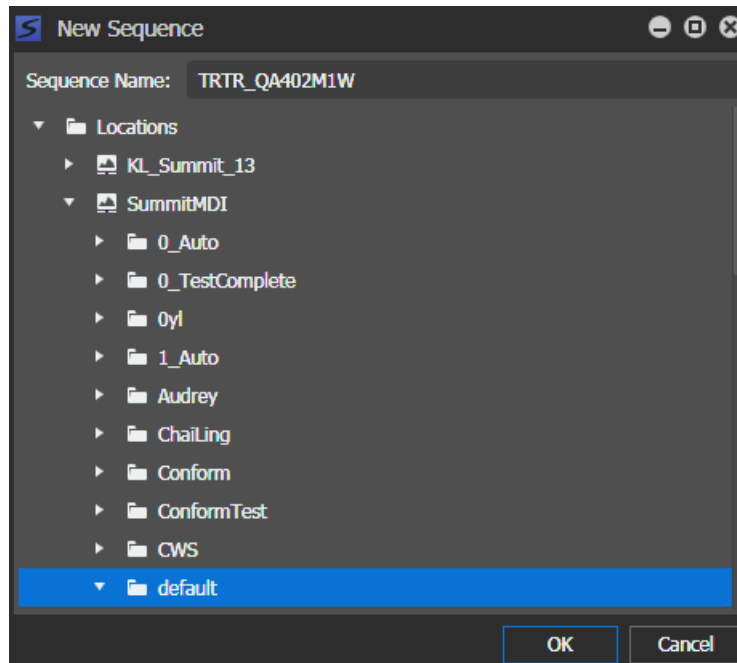
[Deleting assets](#) on page 791

Adding a new sequence

You can add a new sequence to a placeholder in the Assignment List tool.

1. Select a placeholder that you want to add a new sequence into.
2. Click the **New Sequence** button. 

The New Sequence dialog opens.



The sequence name is automatically populated with the placeholder name and ID. You can still change the sequence name if you want to.

3. Select a location for the sequence and click **OK**.

The Storyboard Editor tool launches automatically if it is not already opened. The sequence name can be viewed in the Sequence Viewer and Storyboard panels.


4. Add events as necessary to the sequence.

If configured in ALP user preferences settings, the placeholder row color changes to the being edited color in the Assignment List.

Checking missing clips

The Assignment List lets you see if clips are complete and ready for air.

You can only see thumbnails for placeholders with completed clips, which can also be identified by **Ready** status in the Assignment List. The thumbnail column is blank for placeholders with missing clips.

- To display placeholders with missing clips only, click the **Missing Placeholders Only** button. 

You can also see the number of placeholders with missing clips from the indicator on the toolbar.

If you want to see the entire list of placeholders, click again the **Missing Placeholders Only** button.



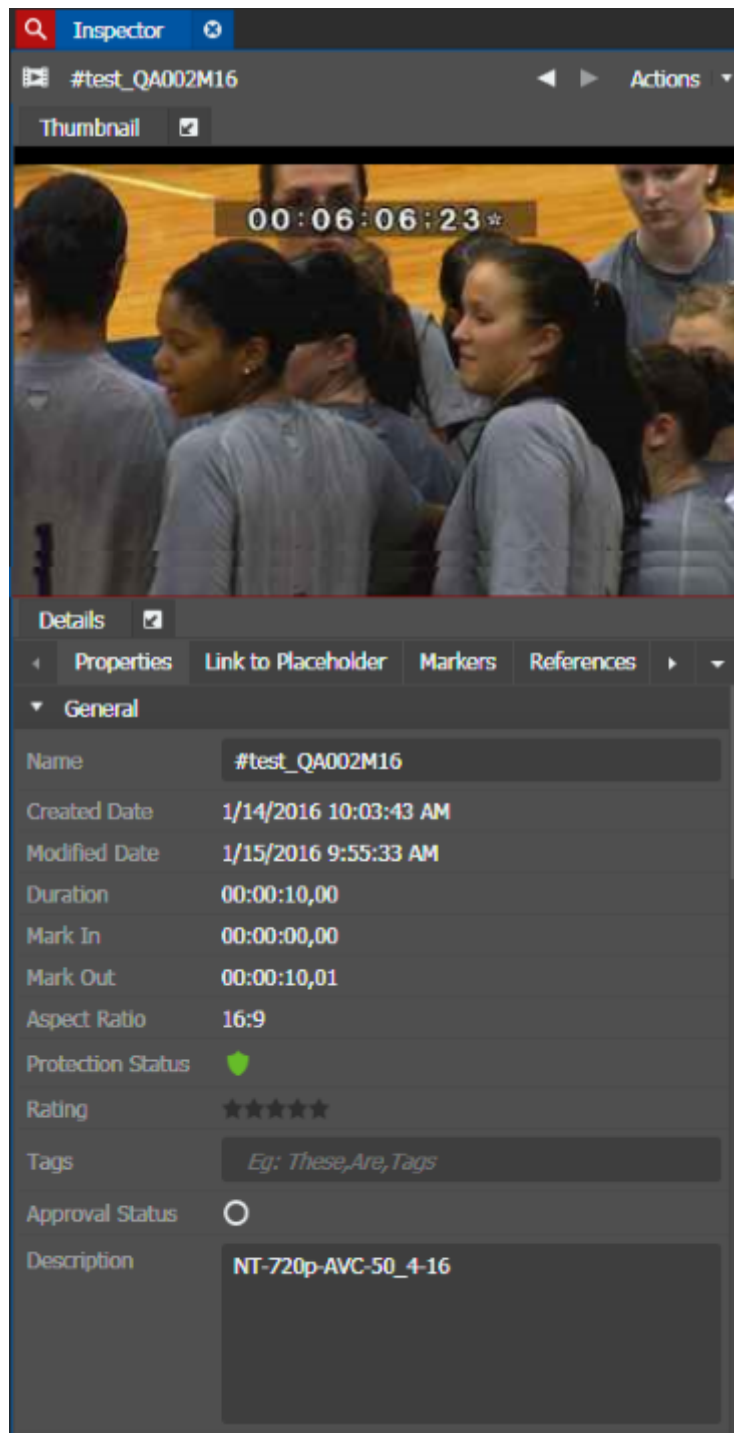
Viewing and modifying metadata of linked placeholders

You can view and modify metadata of placeholders with **Ready** status. When you modify the metadata, you are actually modifying the metadata of the asset that is already associated with the placeholder.

The inserted metadata can then be used as the search criteria to easily search assets in the Asset List panel.


1. To view or modify the metadata, do one of the following below:
 - Drag and drop the placeholder into the Inspector panel.
 - Double-click the placeholder.

The metadata loads into the Inspector panel.



2. On the **Properties** tab, you can view or modify metadata of placeholders.


You can also add and customize metadata fields in the Metadata settings within the GV STRATUS Control Panel application.

3. To lock the status, click the **Unprotected** button. 

The asset is now locked. To unlock, click the **Protected** button. 

4. To add a star rating, click the star or stars next to Rating.

When you add a star, it retains the color fill even when the mouse is no longer hovering over it.

5. Click the **None** icon  to change the approval status.

The approval status changes to **Approved**.

You can click the icon to toggle the approval status of the linked placeholder. The selected approval status displays on the Assignment List.

 **None:** Identifies the approval status of the clip as none.

 **Approved:** Identifies the approval status of the clip as approved.

 **Rejected:** Identifies the approval status of the clip as rejected.

6. Set the **MetadataExpireDate** and **Source ID**, if needed.
7. To view lists of related assets and relationships, see other tabs of the Inspector panel.

Related Topics

[Viewing relationships](#) on page 820

[Verifying proxy association](#) on page 821

Editing and GV STRATUS Rundown

Editing and GV STRATUS Rundown

News editors use the Assignment List Manager component of GV STRATUS Rundown to receive assignments from the producer and return completed assignments. The Assignment List tool in GV STRATUS application can also be used by news editors, producers, and journalists in the newsroom.

Editors create clips and sequences in the editing application and send them to a media server. A playlist is received from the NCS or a playback operator uses the clips in GV STRATUS Rundown to create a playlist, and then controls the playback of clips to air.

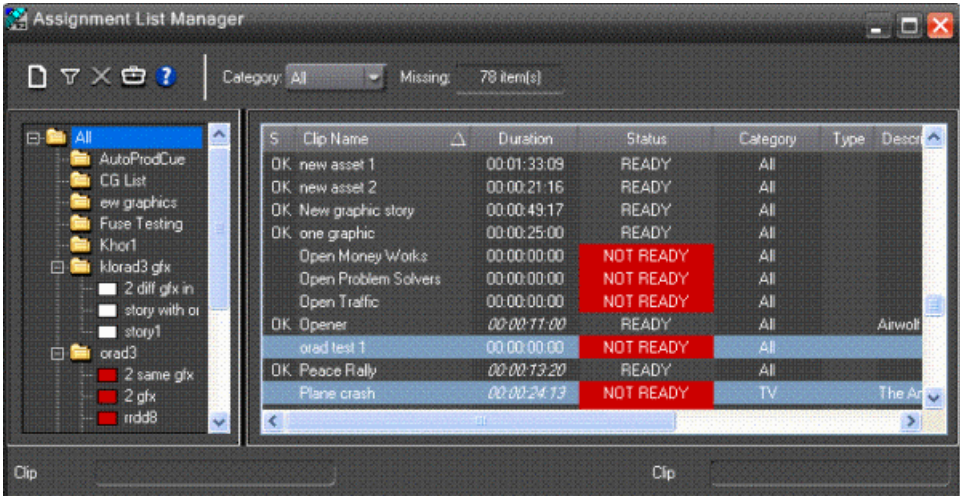
With GV STRATUS within the GV STRATUS Rundown, you can explore assets using the Navigator and Asset List panel. To quickly edit assets, you can also launch the Storyboard workspace which includes the Source Viewer, the Sequence Viewer and the Storyboard Editor. To use the GV STRATUS application within GV STRATUS Rundown, the STRATUS-ELITE license must be installed on the GV STRATUS Core Services server. For more information regarding licensing, refer to the *GV STRATUS Rundown Release Notes*.

Using the Assignment List Manager

The Assignment List Manager is for editors to receive assignments from the producer, to create additional placeholders for clips, and to reassign placeholders to other editors.

The standalone Assignment List Manager runs on any computer in the network.

- In the standalone Assignment List Manager, maximize the window:



The list of assignments shows each clip/placeholder and its properties:

Column	Description
S	The clip status: displays OK if a clip has been completed, sent to the media server, and is ready for playback. Status is blank if a clip is incomplete and not ready for playback.
Clip Name	The name of the clip/placeholder.
Duration	The duration of the clip when the placeholder was created. This estimated value will be changed later when media is associated with the placeholder. A duration displayed in italics in the Assignment List indicates that the Editorial Duration property has been set to be different than the actual duration of the clip.
Status	MOS status: matches the NCS status. Includes READY/NOT READY, PLAYED, etc.
Category	The category assigned to the clip; you can assign categories based on the editor to receive the assignment, for instance.
Type	The type of story or sequence an editor needs to create: Voice Over (VO), Sound on Tape (SOT), or other types set in SDB Server Options.
Description	Brief description of the clip an editor needs to create.
Clip ID	The clip ID, which is automatically defined when the placeholder is created.
Date	The date the placeholder was created.

Column	Description
P (Protected)	Protected status; displays P if the clip is protected, which prevents it from being erased or deleted from the database. Column is blank if the clip is unprotected.

Related Topics

[Editing and GV STRATUS Rundown](#)

Receiving Editing Assignments

Assignments automatically appear in your GV STRATUS Assignment List when they are sent from the producer or assigned from another editor.

Producers create those assignments as clip placeholders for use in an upcoming news broadcast. You can edit clips in EDIUS XS or Storyboard Editor, and link them to the placeholders in the Assignment List.

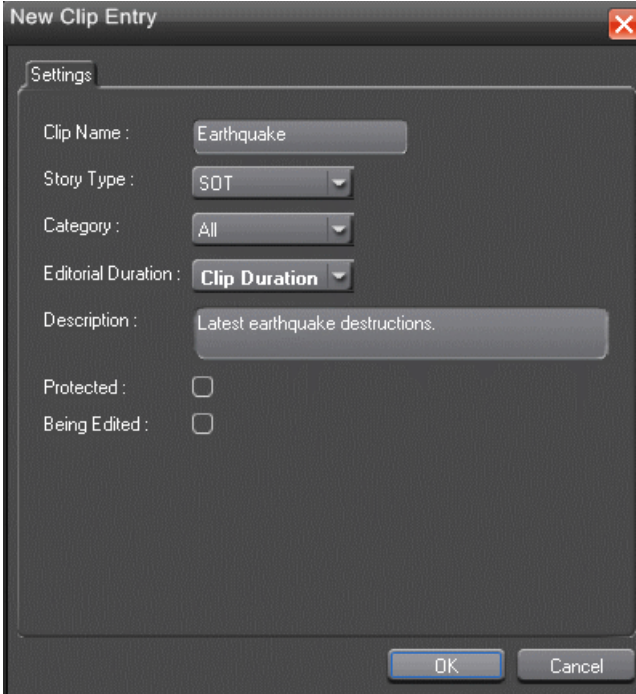
Additional features of Assignment List Manager

In addition to creating clips for assigned placeholders and sending them to the server for playback, there are other features of the Assignment List Manager that you can use.

Creating placeholders in Assignment List Manager

In addition to the assignments you receive from your producer, you can create additional placeholders for clips you want to include in a broadcast.

1. Click the  **New Clip** button.



The image shows a 'New Clip Entry' dialog box with a 'Settings' tab. It contains the following fields and options:

- Clip Name :
- Story Type :
- Category :
- Editorial Duration :
- Description :
- Protected : ☐
- Being Edited : ☐

At the bottom right are 'OK' and 'Cancel' buttons.

The New Clip Entry window appears.

2. Enter a clip name.

The placeholder name identifies the placeholder in your Assignment List Manager, the Assignment List Plug-in on the ENPS system, and the GV STRATUS Rundown playlist.

3. Optionally, enter additional information about the placeholder:

- **Story Type**— If desired, specify whether this is a SOT (story on tape), VO (voice over), etc.
- **Description** — Enter a description for the placeholder to help identify the clip you need to create.
- **Category** — Select a category from the drop-down menu. The category determines who receives the placeholder as an assignment. Selecting **ALL** makes the placeholder accessible to all editors who select **ALL** in their Assignment List Manager.
- **Editorial Duration** — If desired, enter an estimated duration for the story or select one from the drop-down list. The editor can also enter an editorial duration that is less than the clip length, which is sent back to the NCS for show timing.

NOTE: *Editorial Duration has the priority over media duration. Once an Editorial Duration is set; it will not be adjusted to clip duration, even after media is associated with the placeholder. The editor needs to set the final Editorial Duration before the clip is sent for playback.*

- **Protected** — Check this box to prevent the clip from being deleted from the database.
- **Being Edited** — Check this box to show that the clip for a placeholder is being edited. This field allows editors to easily see that a clip is already being worked on in another edit room.

NOTE: *This field allows users to easily determine that a clip is already being worked on. When checked, these areas designate that the clip is Being Edited: the clip in the GV STRATUS Rundown playlist and in the Assignment List Manager changes color, and the text for the clip in the standalone Assignment List Manager changes color.*

4. Click **OK**.

The Clip ID and Date are automatically set when you create the placeholder.


Related Topics

[Additional features of Assignment List Manager](#) on page 1215

Deleting placeholders in Assignment List Manager

If you need to, you can delete placeholders from the Assignment List Manager.

However, deleting items using the Assignment List Manager only deletes the placeholder, not the corresponding media. For this reason, you should only delete empty placeholders from the Assignment List Manager and use Housekeeper for deleting clips.

- Select the placeholder that you want to delete and click the  **Delete** button.
The placeholder is deleted from the Assignment List Manager.

Related Topics

[Additional features of Assignment List Manager](#) on page 1215

Changing clip category in Assignment List Manager

If you need to, you can change a clip or placeholder category in the Assignment List Manager.

1. In the Clips window, double-click on the placeholder you want to assign.
2. Select a new editor, workstation name, or other category from the **Category** list.



3. Click **OK**.

The placeholder appears on the edit workstation when that particular category is selected.

Related Topics

[Additional features of Assignment List Manager](#) on page 1215

Viewing by category in the Assignment List Manager

In the Assignment List Manager, you can choose to view assignments within a selected category or all of the assignments in the list.

- Select a category from the **Category** drop-down list.



The list displays only the placeholders and clips in that category.


Select **All** to view all assignment placeholders again.

Related Topics

[Additional features of Assignment List Manager](#) on page 1215

Identifying missing clips

In the Assignment List Manager, you can filter the list of clips to show only missing clips.

- Click the  **Missing Clips Only** button.
Only placeholders with missing clips will be shown on the Assignment List Manager.

Click the button again to show the entire clip list.

NOTE: *If you are using the Rundown View, you can further filter the list by selecting only the rundown you want to view.*

Related Topics

[Additional features of Assignment List Manager](#) on page 1215

Using the GV STRATUS application in GV STRATUS Rundown

You can launch GV STRATUS in an ActiveX window within the GV STRATUS Rundown application. This allows you to use all GV STRATUS application tools and GV STRATUS Rundown to consolidate your entire operation including playback into one workspace.

With GV STRATUS within the GV STRATUS Rundown application, you can easily drag clips from Asset List into GV STRATUS Rundown's playlist. In addition, the Assignment List lets you create a placeholder for a clip and link it into the accompanying story in the NCS rundown. You can also assign channels for clips via the NCS for playout. For more information regarding GV STRATUS tools, refer to the *GV STRATUS Topic Library*.



Related Topics

[Editing and GV STRATUS Rundown](#)

[Overview of GV STRATUS Rundown](#) on page 1157

Logging on to the GV STRATUS application

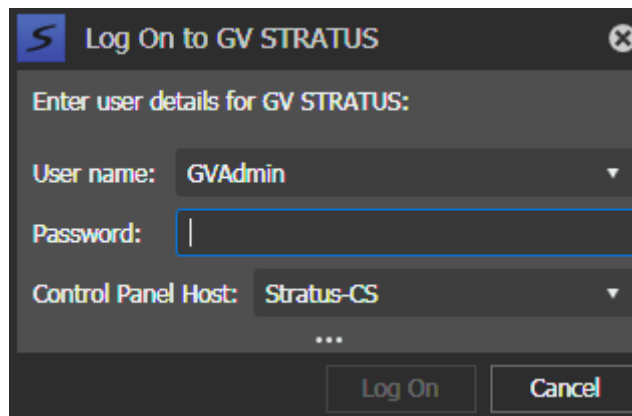
When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions

on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. From the Windows desktop, do the following:

- Click **Start | All Programs | Grass Valley | GV STRATUS Rundown**


A **GV STRATUS** Log On dialog box opens.



2. Enter your user name.

If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

If you have successfully logged on before, select your user name from the drop-down list.

3. Enter your password.
4. Verify that the application is correctly referencing the Control Panel Services Host as follows:
 - a) If not already showing, click the **Options** button  to show settings.
 - b) Verify or enter the hostname (do not enter the IP address) of the GV STRATUS server with the SiteConfig role of GV STRATUS Control Panel Service. This is the Control Panel Services Host. In most systems this is the main GV STRATUS Core server.

If you have successfully logged on before, your hostname is automatically populated. You can select a hostname from the drop-down list if you have previously logged on to multiple hosts in your operation.

5. Click **Log On**.

The GV STRATUS Rundown application opens.

To launch the GV STRATUS Plug-in within GV STRATUS Rundown, click **View** and select **GV STRATUS**.

GV STRATUS features are enabled according to the roles associated with your log on credentials.

When you log on to the application, the settings you make on one PC are available on other PCs when using the same user credentials, including the following:

- Settings from the User Preferences dialog box
- Workspaces
- Channel Panel configurations and Salvos
- Searches

Inserting placeholders from GV STRATUS

You can create placeholders in the GV STRATUS ActiveX plugin and insert them automatically into the playlist or any channels of GV STRATUS Rundown.

1. Select a placeholder from the Assignment List panel in the GV STRATUS ActiveX workspace.
2. Drag and drop the placeholder into GV STRATUS Rundown's playlist or channel.

The placeholder appears in the playlist or channel.

Inserting clips from GV STRATUS

You can insert clips from the GV STRATUS ActiveX plugin into an out of rotation channel of GV STRATUS Rundown.

1. Select a clip from any bin in the Asset List panel of the GV STRATUS ActiveX workspace.
2. Drag and drop the clip into an out of rotation channel of GV STRATUS Rundown.

The clip appears in the out of rotation channel.

3. Click **Play** to play the clip.

You can also use other controls to manage the clip playback on the channel.

Linking clips automatically from GV STRATUS

- If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins, assets, and metadata.
- In order to link to a placeholder, you must be assigned with write permission for the **Name** property in Metadata section of GV STRATUS Control Panel.

You can automatically create placeholders and link them when you drag and drop assets into the playlist.

1. Create a new playlist in the GV STRATUS Rundown application.
2. Select a clip from the Asset List in the GV STRATUS ActiveX Plug-in.
3. Drag and drop the clip into GV STRATUS Rundown's playlist.

The clip is linked to a placeholder that is automatically generated in the Assignment List of GV STRATUS ActiveX Plug-in.

4. Click **Save** to save the playlist.

Playing clips to air

Playing Clips to Air

Playback operators use the GV STRATUS Rundown application to control the playback of news clips to air.

Using a playlist linked to an NCS rundown or the local GV STRATUS Rundown playlist, playback operators cue and play clips as required during a broadcast.





The Clip Browser, Rundowns, and Playlist Overview are all dockable; you can rearrange windows or close windows you aren't using (such as unused channels). The channel windows are not dockable, but each can be opened or closed.











To restore a window you have closed, choose the name of the window from the View menu. To restore all windows to their default locations, choose **Tools | Reset Windows**.

With the integration of GV STRATUS ActiveX Plugin, you can preview a clip prior to air using the Source Viewer and view metadata properties that had been created for the clip.

About GV STRATUS Rundown Toolbar



The GV STRATUS Rundown Toolbar lets you access common features.

Icon	Function	Other Ways to Access...
	Creates a blank playlist.	File New Playlist or Ctrl + N
	Opens a saved local (.pls) playlist.	File Open Playlist or Ctrl + O

Icon	Function	Other Ways to Access...
	Saves the current playlist as a local (.pls) playlist.	File Save Playlist or Ctrl + S
	Cuts selected clips from the playlist to the clipboard.	Edit Cut or Ctrl + X
	Copies selected clips from the playlist to the clipboard.	Edit Copy or Ctrl + C
	Pastes clips from the clipboard into the playlist.	Edit Paste or Ctrl + V
	Opens the Clip Browser, so you can add clips to the playlist.	Ctrl + I
	Cues all channels specified in the automatic channel assignment starting with the currently selected story.	
	Plays the next clip in the playlist.	Spacebar (if enabled) and external GPI
	Stops playing all clips.	
	Puts the GV STRATUS Rundown application into Archive Play mode, which lets you archive stories to tape.	
	Re-syncs the GV STRATUS Rundown playlist with the NCS when sync has been broken with the NCS rundown, such as by reordering stories.	

About the Playlist

The playlist lists each clip and its properties.

Thumbnail	Clip Name	Duration	Hit Time	Status	Channel	Assign
	Egypt bomb blasts	00:00:25:00		2 CH 3 CH 4 C Cued	CH 1	
	Fire storm	00:00:20:17		2 CH 3 CH 4 C Cued	CH 2	
	Opener	00:00:21:16		2 CH 3 CH 4 C Cued	CH 3	
	Weather Report	00:03:16:09		2 CH 3 CH 4 C Cued	CH 4	
	Bank Robbery	00:00:20:00		2 CH 3 CH 4 C Cued	CH 5	
	BULGARY	00:08:11:22		2 CH 3 CH 4 C Ready		
	Peace Rally	00:00:20:00		2 CH 3 CH 4 C Ready		

You can rearrange the order of the columns in the playlist by dragging the title of the column to a new location. To restore all columns to their default position, choose **Tools | Reset Playlist Columns**.

You can also resize the columns by dragging to expand or shrink the column name.

Column	Description
Thumb	Displays a video thumbnail of the clip, if available. To change the thumbnail size, click the Thumb column heading or select View (Small) or (Large) Thumbnail. A red border appears around a blank thumbnail if the clip is not ready for playback.
Clip Name	Displays the name of the clip. A scissors icon appears next to a clip that has been trimmed.
Duration	Displays the full duration of the media, not the editorial duration.
Hit Time	Counts up the relative time that the clip plays from when the Reset button was pressed, which is usually when a show starts.

Column	Description
Status	Displays the available channels and the status of the clip: [Not Ready] — The clip is not ready to play. [Ready] — The clip is ready to play. [Blank] — Clip has not yet been cued. [Cued] — The clip is cued to a specific channel and is ready to play. [Roll] — The clip is playing to air. [Stopped] — The clip has been manually stopped during play. [Played] — The clip has finished playing.
Channel	Displays the channel in which a clip is currently cued or playing.
Assign	Displays the channel assigned through the NCS or GV STRATUS Rundown. Allows you to assign a clip to a channel, overriding automatic channel assignment.
Page	Corresponds to the page of the NCS rundown. This column is blank if you are not using ENPS or Octopus with GV STRATUS Rundown or if the producer did not select Freeze Page Numbers for the rundown properties in ENPS.
Story Slug	Displays the name of the story from the NCS rundown.
ID	Displays the clip ID, which is automatically set when you create the placeholder.
Description	Displays any descriptive text entered in placeholder properties.

Understanding Playlist colors

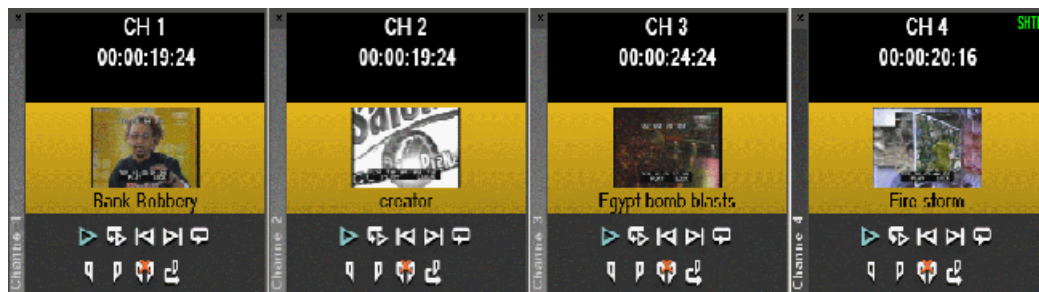
Each playlist entry appears in a color that identifies its status in GV STRATUS Rundown:

Row Background Color	Description
Yellow	The clip is cued for playback.
Green	The clip is playing.
Orange	The clip is stopped during play.
Gray	The clip is in post roll.









1. Select **Tools | Options**.
2. Click on the **Color** tab.
3. Click the row color box that you want to change and select a new color.


About Playout channels

The channel area displays all channels available on your system.



You can perform the following functions for each channel.

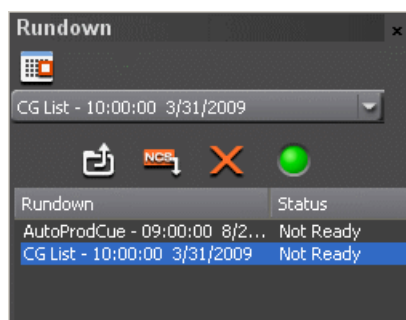
Icon	Function
	Plays the current clip in the channel. If a clip is playing, clicking this button pauses the clip; click it again to resume playback.
	Recues the current clip.
	Cues the previous clip in the channel.
	Cues the next available clip.
	Loops playback for the current clip.
	Sets a Mark In point to begin trimming the clip. A Scissors icon appears next to the clip name in the playlist to indicate a trimmed clip.
	Sets a Mark Out point to end trimming the clip.
	Clears both the Mark In and Mark Out points from the clip.

Icon	Function
	Previews the last few seconds of the clip and immediately recues. (The number of seconds that previews is set under Options and determined by your studio's needs.)

This symbol  indicates that a GV STRATUS Rundown channel is no longer connected to its corresponding channel on the media server.




About Rundowns


The rundown area displays the open rundowns and their status, a list of available rundowns, server status, and control buttons.



You can open up to five rundowns at once; all open rundowns merge into a composite playlist, allowing seamless control of back-to-back rundowns.

Clicking **Date** toggles a calendar which lets you filter the display of rundowns to a specific date. Selecting a rundown from the rundowns list selects all clips in that rundown in the playlist area.

Icon	Function
	Opens the selected rundown and creates a playlist.
	Appends the selected rundown to the end of the current playlist.
	Removes the selected rundown from the playlist.

Icon	Function
	Indicates the connection status between GV STRATUS Rundown and the XMOS Server; green indicates a successful connection.

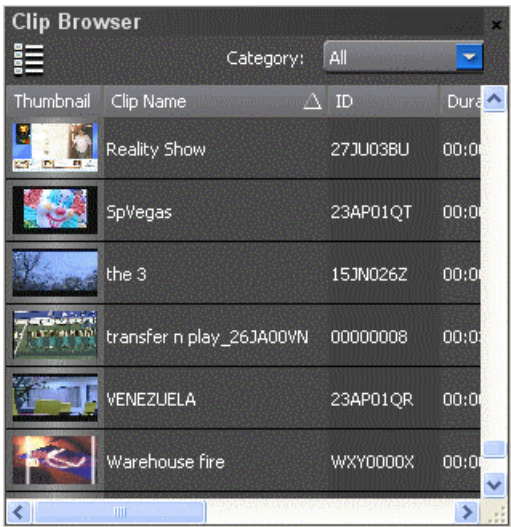
The status displays READY when the “MOS Ready to Air” property is enabled for a rundown through ENPS or Octopus. The Status column is not used with iNEWS; the column can be resized off of the screen if desired.

About the Clip Browser

Clip Browser displays thumbnails and information of clips and placeholders from GV STRATUS Rundown database, allowing you to easily add them to your playlist.


If the Clip Browser window is not open, click **Clip Browser button**  from the toolbar.

The Clip Browser opens, displaying clips and placeholders from GV STRATUS Rundown database. Dragging a clip from the Clip Browser window and dropping it on the Playlist window appends the clip to the playlist.



You can add clips that are ready or empty placeholders to which media will be sent later.

To filter display items on the Clip Browser window, you can select a specific category from the category dropdown list. Select All to view all clips and placeholders again.

To toggle the thumbnail size on Clip Browser window, you can click on the Toggle Thumbnail View button .

The Clip Browser also consists of clip and placeholder information as described below:

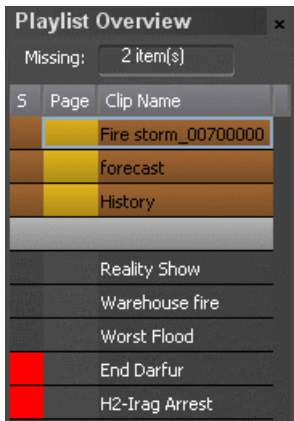
Column	Description
Thumbnail	Displays a video thumbnail of the clip, if available. A red border appears around a blank thumbnail if the clip is not ready for playback. To change the thumbnail size, click the Toggle Thumbnail View button.
Clip Name	Displays the name of the clip.
ID	Displays the clip ID, which is automatically set when you create the placeholder.
Duration	Displays the full duration of the media, not the editorial duration.
In Use	Displays a check sign if the clip is appended manually to the playlist.
Category	Displays the category assigned to the placeholder.
Type	Displays the story type of placeholder that had been created: Sound on Tape (SOT), Voice Over (VO), or other types set in in the SDB Server options.
Date	Displays the date the placeholder was created.
Description	Displays any descriptive text entered in placeholder properties.

You have several ways to search for clips and placeholders in Clip Browser. The most common way is to scroll down through the window to find the placeholder that you need. You can also get to a specific placeholder by entering the first few characters of the placeholder name.

- Click on one of the placeholders in the Clip Browser window and scroll down to search for other placeholders.
- Use the up and down arrow keys on your keyboard to navigate through the list.
- To search for a specific placeholder, type the first character and the active bar will automatically go to a placeholder that starts with that character. If you type a second character within 1 second of the first character, the active bar will go to a placeholder that starts with those 2 characters. If you enter the same character repeatedly, the active bar will navigate through all placeholders that start with that character.

About the Playlist overview

The playlist overview displays a subset of the playlist columns, allowing you to scroll to other parts of the playlist without disrupting the view in the main playlist window.



The Playlist Overview window shows clip’s status, page and clip name.

Column	Description
Status	Displays the status color of the clip: Black — The clip has not yet been cued. Yellow (Cued) — Clip is cued to a specific channel and is ready to play. Green (Roll) — The clip is playing to air. Gray (Played) — The clip has finished playing. Orange (Stopped) — The clip has been manually stopped during play. Red Square — Clip not ready for playback.
Page	Corresponds to the page of the ENPS or Octopus rundown. This column is blank if you are not using ENPS or Octopus with GV STRATUS Rundown or if your Producer didn’t choose the Freeze Page Numbers option in ENPS.
Clip Name	Displays the clip name.


Creating a Playlist

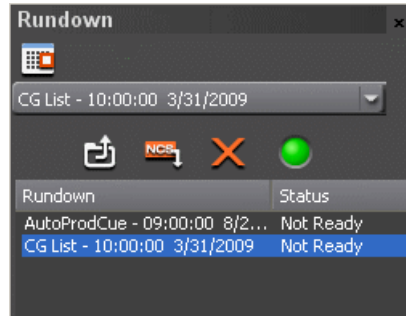
You need to create a playlist before you can play clips to air.

- By opening a rundown that you created in a newsroom computer system
- By manually creating a playlist in GV STRATUS Rundown

Opening an NCS Rundown

If you use a newsroom computer system such as ENPS, iNEWS, Octopus, OpenMedia, or NIS5 to create news rundowns, you can open those rundowns in GV STRATUS Rundown.


- Select a rundown from the drop-down list and click the **Open Rundown**  button.



The rundown opens in the GV STRATUS Rundown application, displays all clips in the rundown, and cues clips to channels if **Auto Cue on Loading Rundown** is enabled. The playlist displays a headframe for each clip; while a red border and blank thumbnail appear for clips that are not yet ready for playback.

Appending rundowns to a playlist

With GV STRATUS Rundown and your NCS, you can add rundowns to create a playlist that includes all of the clips and other information from each of the rundowns. Appended rundowns are added to the end of the current playlist.

1. Select the rundown from the drop-down list.
2. Click the **Append Rundown button** .


The rundown is added to the end of the current Playlist, displays in the Playlist Overview, and the rundown name is added to the Rundown list.



NOTE: *You can open up to five rundowns in the playlist at a time.*

Removing rundowns from a Playlist

If you don't need a certain rundown anymore, you can remove the rundown from the playlist.

1. Select the rundown to remove from the rundown list window.
2. Click the **Close Rundown button** .

The rundown is removed from the playlist.

Previewing other rundowns

If you need to look at another rundown, you can open it without disrupting the current GV STRATUS Rundown playlist.

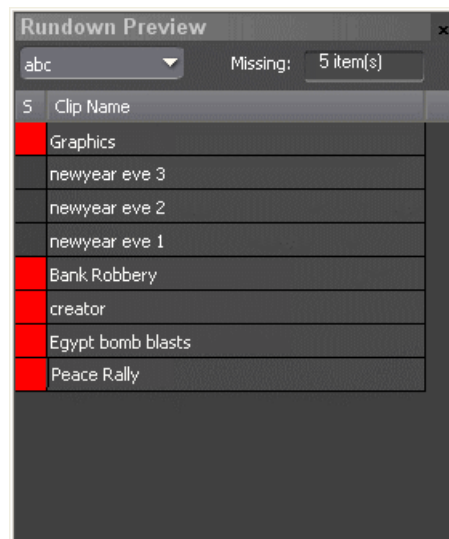
1. Select **View | Rundown Preview** or press **Ctrl + R** on the keyboard.

The Rundown Preview window appears.

2. Select a rundown from the Rundown drop-down list.

The Rundown Preview window displays all placeholders and completed clips for the rundown.


A red square in the status column indicates that the clip is not complete. You can also see at a glance how many clips are missing.




3. Select other rundowns from the drop-down list if you wish to preview other rundowns.
4. Click the **X** icon on top right of the window if you want to close the Rundown Preview window.

Creating a new playlist manually

Another way to create a playlist is manually using GV STRATUS Rundown.

1. Click the **New Playlist** button  in the main toolbar.

An empty playlist appears.


2. If the Clip Browser isn't open, click the **Clip Browser** button .
The Clip Browser opens, displaying all available clips and placeholders from the GV STRATUS Rundown database.
3. Drag a clip into the Playlist window or the Playlist Overview window.
The clip appears in the main playlist window.
4. Continue adding clips to the playlist as necessary.
Dragging a clip from the Clip Browser window and dropping it onto the horizontal scroll bar at the bottom of the Playlist window appends the clip to the end of the playlist.

You can add clips that are ready or empty placeholders to which media will be sent later.

Saving local playlists

You can save a playlist if you need to re-use it in a later broadcast.

For example, you could create a playlist for a 6 PM broadcast and then modify it for the 10 PM broadcast.

1. When you are done adding clips, click the **Save** button  on the main toolbar.
2. Select a location for the playlist and enter a file name.
3. Click **Save**.

The playlist is saved with a .pls extension.

To save a playlist with a different name, select **File | Save As**, enter a new filename, and click **Save**.

You can also save an NCS rundown as a local playlist. This creates a “snapshot” of the current state of the rundown. If the rundown is then changed on the NCS and you need to revert to the previous version, you can open the local .pls version.

Opening saved Playlists

You can open a saved playlist and re-use it if needed.

1. Click the **Open Playlist** button  on the main toolbar.
2. Select a playlist and click **Open**.

The playlist opens and displays the list of clips it contains.

You can modify, review, or play the playlist to air.

Appending a Playlist

If you want to add another local playlist, you can append one to the current playlist in GV STRATUS Rundown.

1. Select **Append Playlist** from the File menu.
The Open window appears.
2. Select the playlist you want to append by browsing to a .pls file, and click **Open**.

The playlist appends to the end of the open playlist in GV STRATUS Rundown.

Exporting a Playlist

You can also export a playlist, open it in a text editor or spreadsheet program, and then print it.

1. Select **Export Playlist** from the File menu.
The Save As window appears.
2. Enter a name for the playlist and click **Export**.

The playlist is saved as a .TXT file.

You can import the .TXT file into a spreadsheet program that supports comma delimited format and it sorts the playlist data into columns.

Chaining Clips in a Playlist

Sometimes you may want to group two or more clips together so the clips play back-to-back as one continuous clip. This grouping is called chaining, and provides the advantage of playing clips in succession without having to cue and play each one individually.

You can also chain clips through your NCS through the Auto-Chain feature by setting up your system so that any two or more consecutive clips assigned to the same channel will chain automatically.

1. Select the clips you want to chain by clicking on one clip and holding down the Shift key while selecting the other clip(s).
2. Right-click on one of the selected clips and select **Chain Clips**.


The clips are now chained together, indicated by a blue rectangle around the clips.









Thumbnail	Clip Name	Duration	File Size	Status	Channel	Assign	Page	Story Tag	ID
	newyear eve 1	00:01:00:00		2 CH 3 CH 4 C Ready				newyear ev.	0000005T
	viewproxy3	00:00:49:17		2 CH 3 CH 4 C Ready				viewproxy3	0000004O
	metaPH4	00:00:07:19		2 CH 3 CH 4 C Ready				metaPH4	00000042

Cueing Clips

Once you have a playlist, you can cue the clips to the appropriate channels and play them to air.

The playlist automatically cues the first clip if the Auto Cue on Loading Rundown option is on, and cues subsequent clips when prior clips have played. If a clip isn't ready for playback, the clip is skipped and the next available clip cues. You can also cue clips manually.

- Select the clip that you want to cue and click the **Cue All** button  on the toolbar.
All channels are cued as specified in the automatic channel assignment, starting with the selected clip.
- Manually cue a clip by dragging it to the target channel.

- In the channel window, click one of the following buttons:
 - **Recue Current Clip**  — Resets the current clip in the channel back to the beginning; the clip is ready to play.
 - **Cue Previous Clip**  — Cues the previous clip assigned to the particular channel; if no channel assignment is specified, GV STRATUS Rundown cues the first previously available clip.
 - **Cue Next Clip**  — Cues the next clip assigned to the particular channel; if no channel assignment is specified, GV STRATUS Rundown cues the next available clip.
 - **Turn Loop Playback On/Off**  — When on, continuously loops the currently playing clip. To turn loop playback off, click this button again.
 - **Set Mark In**  — Marks the starting point of the trimming of the clip.
 - **Set Mark Out**  — Marks the ending point of the trimming of the clip.
 - **Clear Marks**  — Clears all the trim marks on the clip.
 - **Out Cue Preview**  — Automatically plays the last few seconds of the clip and immediately recues. (The number of seconds that is previewed is determined by your studio's needs).

Using the Jog feature

If you need to change the start position of a cued clip, you can jog to the desired frame.



- Use the left and right arrow keys to step through 1 frame at a time.
- Use Ctrl + the arrow keys to step through 10 frames at a time.
- Use Shift + the arrow keys to step through 1 second at a time.

If desired, you may display trim controls by selecting **View | Channel Edit Controls** and setting a new starting point with the Mark In button.

When you play the clip, the clip starts at the new position.

NOTE: *The X-keys jog/shuttle controller can be used as an alternative to jogging via the keyboard and also allows shuttling of the clip.*


Playing clips

During a news broadcast, you play clips either according to the script or when the director signals you. If not already cued, cue the clip to the desired channel. To cue a clip, drag and drop it into a channel window.

- Click the **Play** button  in the channel window.



The Play button is a toggle and changes to **Stop** when clicked; to stop a clip during play, click the **Stop** icon to pause it. Click **Play** to resume playing the clip.

You can also play the next clip in the playlist by clicking the **Play Next** button  on the GV STRATUS Rundown toolbar.

For ease of operation, you can control clips in the playlist using GPI inputs, X-keys and keyboard function keys.

Archiving Clips


The Archive Play feature allows you to automatically play all clips in a playlist on a selected channel and record the output of that channel on a VTR.

To configure Archive Play, you must select the archive channel from the Archive Play configuration tab. You can also change the Archive Black duration on that tab; GV STRATUS Rundown rolls five seconds of black between each archived clip by default. You need to create a black clip if you don't have one.

1. Click the **Archive Play** button  to enable Archive Play.

A message indicating successful connection to the VTR appears.

2. Cue a clip to the archive channel.

Select the first clip and click the **Cue All** button  on the toolbar.

NOTE: *If you are archiving clips to a VTR, the first clip cued is the **BLACK** file.*


3. Click the **Play** button  in the channel window.

GV STRATUS Rundown starts the VTR deck recording and a message indicating play has started appears.

After all clips have played, the VTR deck stops recording and Archive Play mode automatically turns off.

You can use the Run Time counter to determine if you have enough room on the VTR tape to record all of the clips in a rundown for archiving.



In Archive Play mode, Run Time displays as current hit time/total run time, including black clip duration. You can also clear the Run Time counter by clicking the  **Reset Counter** button.

GV STRATUS Rundown logs “as run” data in a comma-delimited log file (C:\GV STRATUS Rundown\Log\ArchivePlay.log). Each line includes the Date, Time (start time to the nearest second), VTR Tape Time Code, Rundown Name, Clip Name, Clip ID, and Duration. You can use log data to determine where a specific story starts.

Each time you enable Archive Play, you can choose whether to clear the existing log file or append the new data.

Recording a black clip for Archive Play

To archive clips, you need to create a file called “**BLACK**” that contains black video.

NOTE: *The file **BLACK** needs to be in the bin used for playout of clips (normally V:/default bin) in order to work properly.*

- Using media server:
 - a) Pull the input source (make sure you don’t have a video feed on this source).
 - b) Create a new clip and name it **BLACK**.
 - c) Record for approximately 10 seconds.
 - d) Eject **BLACK** from the record channel.

Customizing playlist for broadcast

In addition to cueing and playing clips, there are many other features of GV STRATUS Rundown that let you customize a playlist for your broadcast.

Rearranging the Playlist layout

You can change the order of the displayed playlist columns by dragging a column heading to the left or right.

The Thumb column is always the first column in the playlist; you can’t move it or move another column in front of it.

- Select **Tools | Reset Playlist Columns**.

Viewing clip properties

You can view the properties of a clip in the playlist at any time.

The clip properties window displays the clip story type, category, and editorial duration, which are not shown in the playlist.

1. Double-click the clip in the Playlist Window.

The Clip Properties window appears.

2. Click **OK** to close the window.

Assigning clips to channels

If you don't specify a specific channel for a clip, the system automatically assigns it to the next available channel. Channels can be set to be in rotation when you configure your Playout channels.

- Right-click on a clip in the playlist and select **Assign to "X"**.

New channel assignment appears on the Assign column.

For instance, you may have a small clip that you want to play in between two longer clips to create a smooth transition. So, you can assign the small clip to a specific channel.

NOTE: *If you are using an NCS, you should assign channels through the NCS instead of using this method.*

You can remove the clip assignment by right-click on the clip and select **Unassign Clip**.

All clips that are unassigned to specific channels will be cued to any channels in rotation, while a clip that is assigned to a specific channel will only be cued to that channel regardless of the current rotation status.

Rearranging clips in a Playlist

You can rearrange clips in the playlist of GV STRATUS Rundown.

However, doing so breaks the link between GV STRATUS Rundown and the NCS rundown. Therefore, you won't see any subsequent changes made to the NCS rundown. For this reason, you should reorder the rundown through the NCS when possible.


If you created a playlist manually, you can rearrange clips as necessary.


To rearrange clips, you can use one of the following methods:

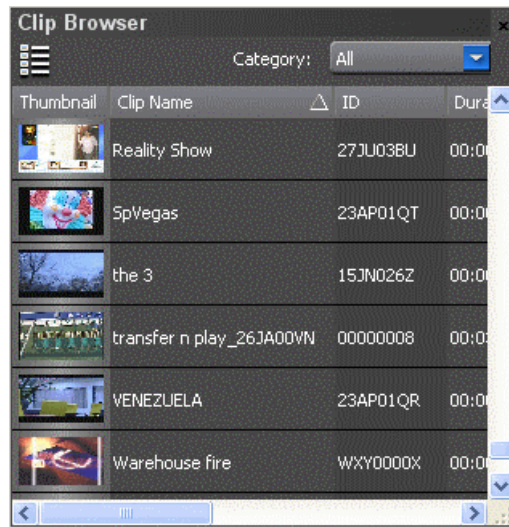
- Using the toolbar icons or keyboard shortcuts, you can cut (**Ctrl + X**), copy (**Ctrl + C**), and paste (**Ctrl + V**) clips in any order in the playlist.
- You can also just drag clips to another position in the playlist.

Adding new clips to a playlist

Occasionally, you may need to add a news clip directly to the playlist if you aren't able to add it to the NCS rundown first.

However, doing so breaks the link between GV STRATUS Rundown and the NCS rundown, and the Sync button  on the toolbar flashes to indicate that the playlist is not synced anymore. In that case, you won't see any subsequent changes made to the NCS rundown.

1. If the Clip Browser isn't open, click the **Clip Browser button** .




The Clip Browser appears, displaying all available clips.

2. Drag a clip into the Playlist window. To append the clip to the bottom of the playlist, drag the clip onto the scroll bar at the bottom of the playlist window.

The clip appears in the Playlist window and the Playlist Overview window.

3. Continue adding clips to the playlist as necessary.

To re-link the GV STRATUS Rundown playlist with the NCS rundown, click the flashing Sync

rundown icon  on the GV STRATUS Rundown toolbar. You will be prompted to save changes as a local playlist before re-syncing.

Using the context-sensitive playlist menu

Several GV STRATUS Rundown features are available by right-clicking in the Playlist window.

Menu Item	Description
Assign to channel_name	Assigns the selected clip to channel_name for playback. Choose Tools Options Channel Configuration to change channel names; you may configure up to six channels.
Unassign Clip(s)	Removes the channel assignment from the selected clip(s).
Mark Played	Marks the currently selected clip(s) as played.
Unmark Played	Removes the played status from the currently selected clips.
Unmark All Played	Removes the played status from all clips marked played.

Menu Item	Description
Chain Clips	Chains two or more selected clips together for continuous playback.
Unchain Clips	Unchains the selected clips.
View Asset	Displays the low-resolution proxy of the selected clip.
View Properties	Displays the properties of a selected clip.

GV STRATUS Rundown Appendix

Sample of MOS Gateway configuration file

NOTE: Due to the book's margin requirements, some wrapping of the text may occur in the following sample file that should not appear in the actual file.

For use with GV STRATUS Rundown, the iNEWS mosconfig.xml file should be configured as follows:

```
<?xml version="1.0" encoding="UTF-16" standalone="no"?>

<!-- This file contains configuration settings for the iNEWS MOS Gateway.
  xmlns="http://www.
inewsroom.com/mosgateway"-->

<!-- It is in an XML-based format, with the root element being
mosGatewayConfiguration. -->

<mosGatewayConfiguration
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespace
SchemaLocation="mosconfig.xsd">

<!-- The logging element specifies the directory in which to put log files,
-->

<!-- the maximum number of log files to create, and how big each one can
grow. -->

<logging>
  <directory>C:\Program Files\Avid\MOSGateway\Logs</directory>
  <maxFileCount>1</maxFileCount>
  <maxFileBytes>10000000</maxFileBytes>
  <!-- YES/NO Also sends all logging to OutputDebugString so any Windows
debugger will see it. -->
  <winDebugTrace>NO</winDebugTrace>
  <!-- on/off Sends all incoming socket traffic to separate log files.
-->
  <socket>off</socket>
</logging>

<!-- -->

<!-- The tcpPorts element specifies the TCP ports on which the MOS Gateway
listens for -->
```



```

<!-- MOS connections. Every MOS that connects to the MOS Gateway must use
the same ports. -->

<tcpPorts>
  <out_upper>10541</out_upper>
  <out_lower>10540</out_lower>
  <in_upper>10541</in_upper>
  <in_lower>10540</in_lower>
</tcpPorts>

<!-- -->

<!-- Newsroom system info -->

<ncs>
  <!-- -->
  <!-- The ncsID used for replication-->
  <ncsID>WXYZ</ncsID>
  <!-- -->
  <!-- NCS's Host Name -->
  <!-- Make sure this is resolvable -->
  <host>WXYZ</host>
  <!-- -->
  <!-- Allow or Disallow Replication -->
  <!-- YES/NO -->
  <!-- default is YES -->
  <AllowReplication>NO</AllowReplication>
  <!-- -->
  <!-- This is the NCS username that the replication service logs into
the ncs with. -->
  <!-- default is mosrep -->
  <ReplicationUsername>mosrep</ReplicationUsername>
  <!-- -->
  <!-- This is the password the ReplicationUsername uses to log into
the ncs. -->
  <!-- default is mosrep -->
  <ReplicationPassword>mosrep</ReplicationPassword>
  <!-- -->
  <!-- Allow or Disallow mosItemReplace -->
  <!-- YES/NO -->
  <!-- default is YES -->
  <AllowMosItemReplace>YES</AllowMosItemReplace>
</ncs>

<!-- -->
<!-- The listDevices element contains device-specific configurations. It
contains -->
<!-- one or more mosDevice elements. The mosDevice element contains
configuration -->
<!-- settings that are specific to a particular MOS. -->

  <listDevices>

    <mosDevice>
      <!-- The names element contains the mapping of the MOS's mosID
value to -->
      <!-- an NRCS device name, as well as the network name of the MOS.
-->
      <names>
        <mos>GVMOS</mos>

```



```

        <amcp>playout</amcp>
        <network>sdbserver1</network>
    </names>

    <roChannels>
        <roChannel>
            <iNewsChannel>A</iNewsChannel>
            <MosDevChannel>A</MosDevChannel>
        </roChannel>

        <roChannel>
            <iNewsChannel>B</iNewsChannel>
            <MosDevChannel>B</MosDevChannel>
        </roChannel>

        <roChannel>
            <iNewsChannel>C</iNewsChannel>
            <MosDevChannel>C</MosDevChannel>
        </roChannel>

        <roChannel>
            <iNewsChannel>D</iNewsChannel>
            <MosDevChannel>D</MosDevChannel>
        </roChannel>

        <roChannel>
            <iNewsChannel>E</iNewsChannel>
            <MosDevChannel>E</MosDevChannel>
        </roChannel>
    </roChannels>

    <handlesRoStorySend>YES</handlesRoStorySend>

    <!-- -->
    <!-- The handlesEmptyStories element specifies whether this
device accepts -->
    <!-- a roStoryInsert message that contains no item. -->

    <handlesEmptyStories>NO</handlesEmptyStories>

    <!-- -->
    <!-- The handlesRoStoryMoveMultiple element specifies whether
this device supports -->
    <!-- the roStoryMoveMultiple message. The router defaults to
YES. -->
    <!-- Valid settings are YES or NO -->

    <handlesRoStoryMoveMultiple>NO</handlesRoStoryMoveMultiple>

    <!-- -->
    <!-- The handlesRoItemLevelCommands element specifies whether
this device supports -->
    <!-- roItemInsert, roItemDelete and roItemReplace. The router
defaults to YES. -->
    <!-- Valid settings are YES or NO -->

    <handlesRoItemLevelCommands>NO</handlesRoItemLevelCommands>

    <!-- -->

```



```

    <!-- the sendRoCreateOnStartLoad element specifies whether
the rundown is created -->
    <!-- by sending a blank roCreate command to the MOS device
then add each story -->
    <!-- separately (YES) or whether one large roCreate message
will be sent with the -->
    <!-- entire rundown (NO). The default is YES. -->

    <sendRoCreateOnStartLoad>NO</sendRoCreateOnStartLoad>

    <!-- -->
    <!-- The statusTranslations element defines the status strings
that correspond -->
    <!-- to the various NRCS status codes. This allows the MOS
Gateway to translate -->
    <!-- the roItemStatus messages received from a MOS into status
codes that NRCS -->
    <!-- can recognize and display. -->

    <statusTranslations>
        <statusUnavailable>NOT READY</statusUnavailable>
        <statusCueing>CUEING</statusCueing>
        <statusAvailable>READY</statusAvailable>
        <statusCued>STAND BY</statusCued>
        <statusPlaying>PLAY</statusPlaying>
        <statusPaused>STOPPED</statusPaused>
        <statusStopped>END</statusStopped>
    </statusTranslations>

    <mosObjReplication>
        <trigger>manual</trigger>
        <replicationTime>12:31:15 PM</replicationTime>
        <clearQueue>>false</clearQueue>
        <path>clips.gvg</path>
    </mosObjReplication>

    </mosDevice>

</listDevices>

</mosGatewayConfiguration>

```

GV STRATUS VTR Ingest Operation

Configuring GV STRATUS VTR Ingest

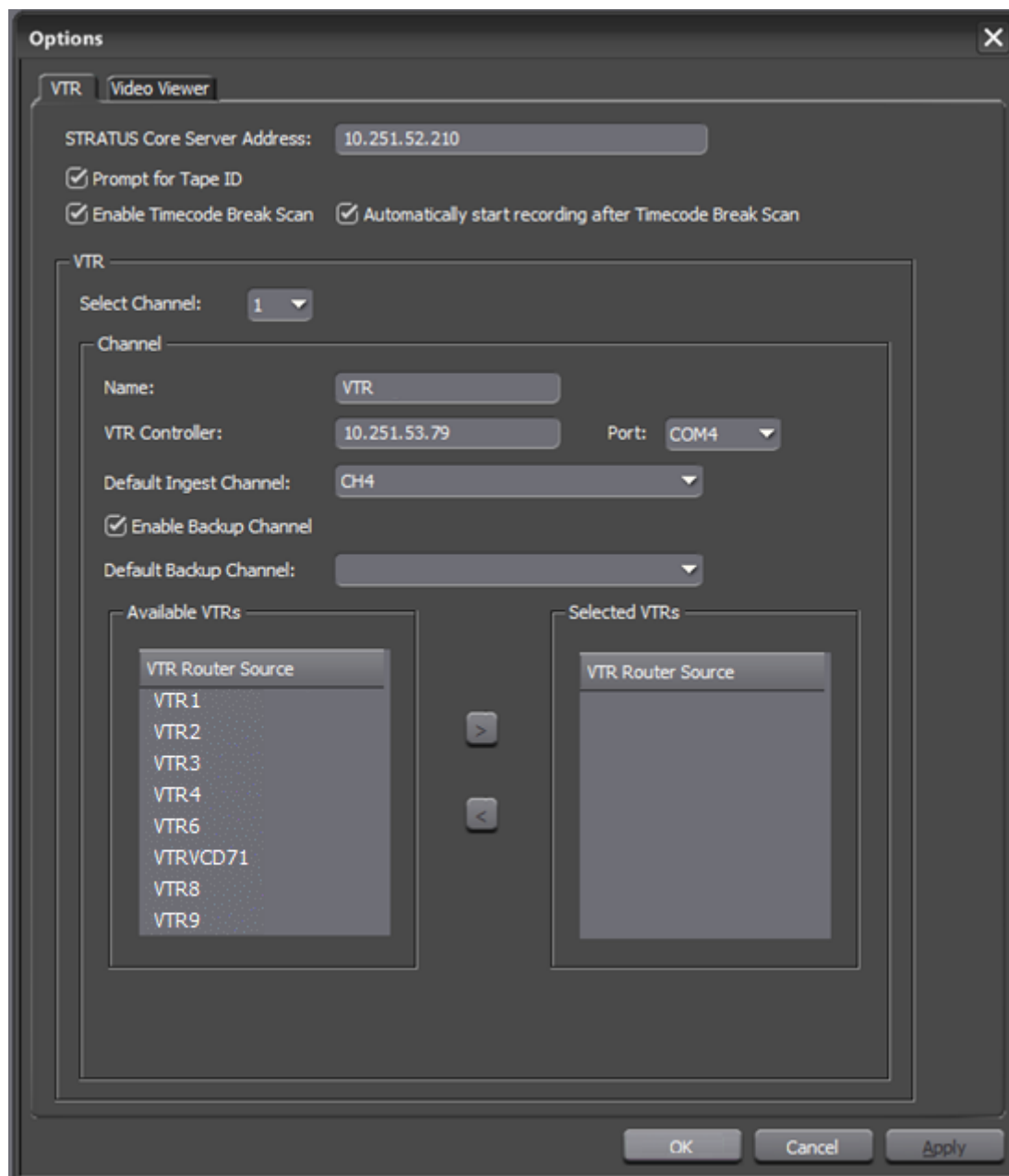
Configuring GV STRATUS VTR Ingest application

You need to configure the GV STRATUS VTR Ingest application before using it.

- STRATUS-VTR-ING license must be installed on the GV STRATUS Core server.

Make sure you have already configured the GV STRATUS VTR Controller application before completing this section. The VTR information in these two applications needs to match.

1. In the GV STRATUS VTR Ingest application, select **Tools | Options**.



2. In the VTR tab, enter the IP address or the host name of the GV STRATUS Core Server in the **Stratus Core Server Address** field.
3. Select the **Prompt for Tape ID** box.
This feature allows you to customize the identification of your tape. If you don't enter a tape ID, GV STRATUS VTR Ingest prompts you to enter the ID before you ingest the first clip.
4. Select **Enable the Timecode Break Scan** to allow you to scan and capture media from a tape according to timecode breaks.
5. If needed, you can select the option to automatically start recording after the Timecode Break Scan.

6. Select a channel from the drop-down list and enter the name of the channel.
7. Enter the IP address or name of the computer where GV STRATUS VTR Controller is installed. (If GV STRATUS VTR Controller is installed on the same machine, enter **localhost**.)
8. Select the COM Port from the drop-down list.
9. If you want to record to two different locations through GV STRATUS VTR Ingest, you can check the Enable Backup Channel box and select a channel from the Default Backup Channel drop-down list.

NOTE: *Once the option to enable backup channel is selected, a Backup channel drop-down list appears within GV STRATUS VTR Ingest channel windows. You can easily select other backup channels from the drop-down list if needed.*



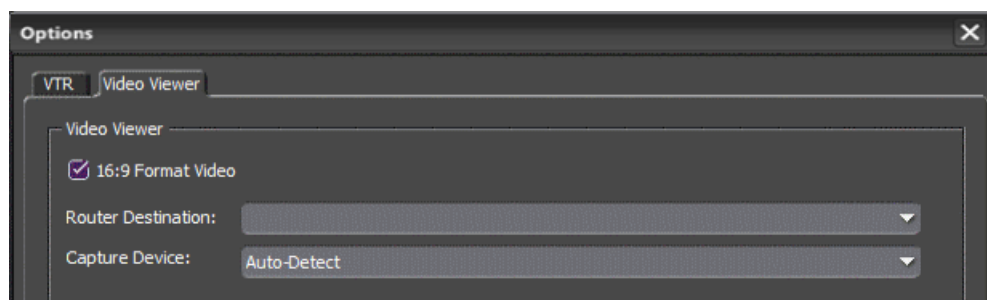
10. From the list of available VTRs, select the VTR router source.
Once selected, the router source is displayed in the Selected VTR box.
11. To make the changes but keep the Options dialog box open, click **Apply**.
12. Proceed to configure video viewer in the Video Viewer tab.

If you have the optional Hauppauge WinTVGo video capture card or Blackmagic Design DeckLink video capture card installed in your GV STRATUS VTR Ingest machine, you will need to define the destination of the router connected (via digital to analog converters, if needed) to your video capture card.

13. In the Video Viewer tab, check the 16:9 format video if desired.

The GV STRATUS VTR Ingest client displays video in the Video Viewer according to the primary format set in GV STRATUS Control Panel **Format** settings.

14. Select the router destination from the drop-down list. If no router has been configured, this field will be grayed out.



15. For the Capture Device drop-down list, select **No Capture Device** if you want to view the asset via a separate video monitor.
16. If you have installed a video capture card, select the device in the capture device drop-down list.
17. Click **OK** after you are done with the configuration.

The GV STRATUS VTR Ingest application is now ready for use.

Using GV STRATUS VTR Ingest

GV STRATUS VTR Ingest allows you to record footage from VTRs or feeds from a router directly to a media server in your newsroom.

With GV STRATUS VTR Ingest, you can select clips from multiple VTR tapes, create a batch (also known as a segment) list, and record it to the server. You can also export the segment list as an EDL and import it into an editing application.

With GV STRATUS integration, you can add and edit the description of a tape or clips in a batch list. The description that had been keyed-in will be searchable within the GV STRATUS application.

If GV STRATUS security is enforced, your credentials must give you adequate permissions. If permission is restricted, buttons, list items, and other controls can be disabled or hidden. Bins, assets, and metadata that do not have read permissions are not visible. Markers and segments permissions must be set to **Allow** in order to create, update, or delete markers and segments.

If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions. You can only view metadata with read permissions, and modify metadata with write permissions. If read or write permissions are denied, your metadata fields will be disabled.

Opening the GV STRATUS VTR Ingest application

- STRATUS-VTR-ING license must be installed on the GV STRATUS Core server.

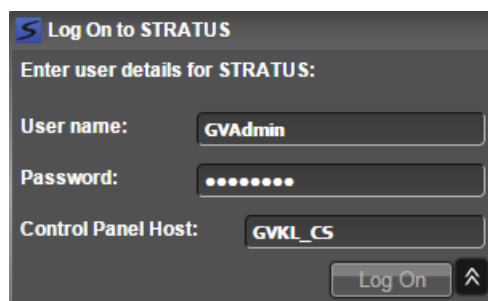
To authenticate with GV STRATUS security, you must log on to the GV STRATUS system when opening the GV STRATUS VTR Ingest application.

When you log on to the GV STRATUS system, the GV STRATUS application assigns GV STRATUS licenses and roles based on your user account credentials, as set by the system administrator in the GV STRATUS Control Panel application. If GV STRATUS security is enforced, your credentials must give you adequate permissions on bins and assets that are part of your workflow. If GV STRATUS metadata access control is enforced, your credentials must give you adequate permissions on metadata fields that are part of your workflow. Your credentials must also give you access to all your K2 systems.

1. From the Windows desktop, do the following:

- Click **Start | All Programs | Grass Valley | GV STRATUS VTR Ingest**

A **GV STRATUS** Log On dialog box opens.



2. Enter your user name.

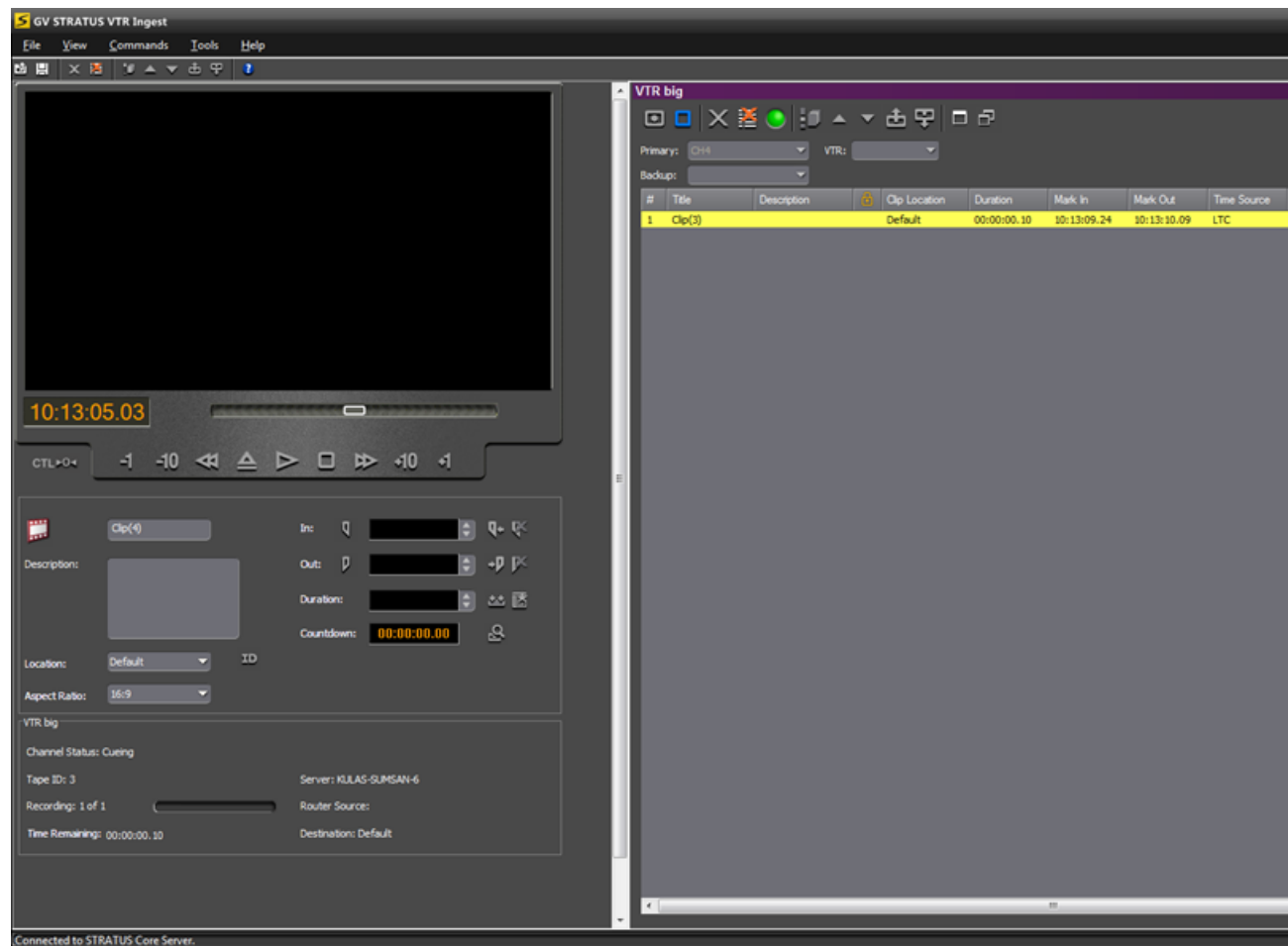
If you use domain credentials, enter in format <domain>\<username>. For example, if your domain is "gv" and your username is "GVuser", enter gv\GVuser.

3. Enter your password.
4. Verify or enter the name of the Control Panel Host for the GV STRATUS Control Panel Service.
In most systems, this is the main GV STRATUS Core server.
5. Click **Log On**.

The GV STRATUS VTR Ingest application opens.

Overview of the GV STRATUS VTR Ingest window

The GV STRATUS VTR Ingest window consists of one to eight channel windows, a viewing window, and a dynamic clip record area.



Overview of clip record area

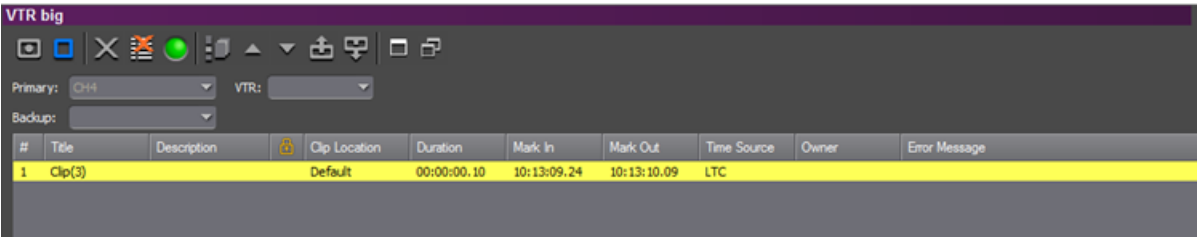
The clip record area of GV STRATUS VTR Ingest window consists of a viewing window, VTR control buttons, clip details and recording status.

Users can also use buttons within the clip record area to add clips to a segment list, record handles, clear the tape ID, scan and ingest tapes with broken timecodes, add metadata to the clips and scan tapes to ingest segments.













Overview of channel window


The channel window on the GV STRATUS VTR Ingest user interface consists of channel lists, VTR source list, segment list buttons and list of clips to be ingested.



The Toolbar lets you perform common functions for recording clips.

Icon	Function
	Displays channel status—A green icon indicates status is OK; a red icon indicates a problem. Click on this icon to see status for the VTR.
	Deletes the selected clip(s).
	Clears the segment (batch) capture list.
	Organize the segment (batch) capture list firstly by tape IDs, and then by mark in points.
	Move up the selected clip in the capture list.
	Move down the selected clip in the capture list.
	Move segments within the same tape up in the capture list.
	Move segments within the same tape down in the capture list.
	Maximize display of the channel window.
	Restore the previous display of channel window.

Each channel window lists clips that need to ingested on that particular channel and details of each clip can be seen easily as they are arranged in columns.

Column	Description
Title	The name of the clip.
Description	The content description of the clip.
Clip Location	The name of the folder where the clip resides in the media server.
	GV STRATUS Security: Indicates the asset or bin has restricted access.
Duration	The duration of the clip.
Mark In	The mark points for the clip.
Mark Out	
Time Source	Control track (CTLTRACK), LTC, or VITC. Note: if using CTL, clip will not be frame accurate, instead it will be +/- 10 frames.
Owner	The name of the person who marked the clip
Error Message	Any error messages describing why the clip was not recorded to the server.
Use Handles	Indicate whether handles have been added to the clip.
Tape ID	The identification of the particular tape

Recording with GV STRATUS VTR Ingest

You can use GV STRATUS VTR Ingest to create a segment (batch) list of clips from videotape recordings, which you then record to your media server.

1. Decide if you want to add handles to your clips.
2. Create a segment list or import an EDL.
3. Record the segment list to your media server.

Adding Handles

If you add handles to your clips, you will have additional frames to choose from when trimming your clips. Grass Valley recommends handles to be used.

- Click the **Record Handle** button .


Handles will automatically be added to your clip.

You can set the duration of the handles in the **VTR Ingest** section of the **Ingest Settings** tab under the Applications in the GV STRATUS Control Panel application.

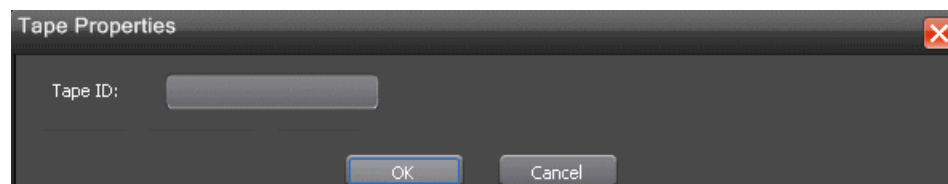
Creating a segment list

You can create a segment (or batch) list using GV STRATUS VTR Ingest.


You must have the **Write** permission for **Name** and **Asset Type** fields for VTR Ingest in the GV STRATUS Control Panel to be able to ingest the segments.

1. Insert a tape into the VTR.
2. Click the **Tape ID** button .

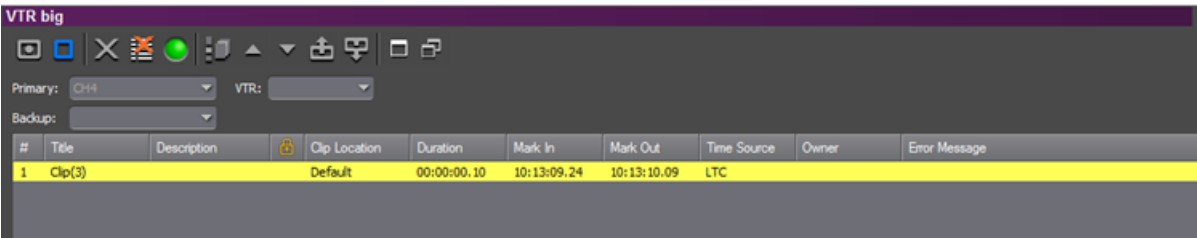
If you don't enter a Tape ID and you already checked the **Prompt for Tape ID** box within GV STRATUS VTR Ingest configuration, GV STRATUS VTR Ingest prompts you before you add the first clip. The Tape Properties dialog box displays on the screen.



3. Enter the Tape ID.
4. Play through the videotape to get the footage you need.
5. Select a different record location for the clip, if you want to.
6. Mark an In and Out point for a clip.

7. Click **Add Segment to List**  button or press **C** on your keyboard.

The clip is added to the list on the Channel Window.





8. Repeat steps 5-8 for additional clips.
9. To use additional tapes, insert a new tape into the VTR and repeat the steps above.

When you eject a tape, GV STRATUS VTR Ingest clears the tape ID field. You can add the new videotape name anytime after you insert a new tape. If you haven't entered a new Tape ID before you add the first clip from that tape to the segment (batch) list, GV STRATUS VTR Ingest prompts you to add one.









Deleting the Segment List


You can delete a clip or the entire segment list.

Button	Function	Other Ways to Access
	Deletes the selected clip.	Right-click in segment list and select Delete.
	Clears the segment list.	Right-click in segment list and select Clear All.

Controlling the VTR with GV STRATUS VTR Ingest

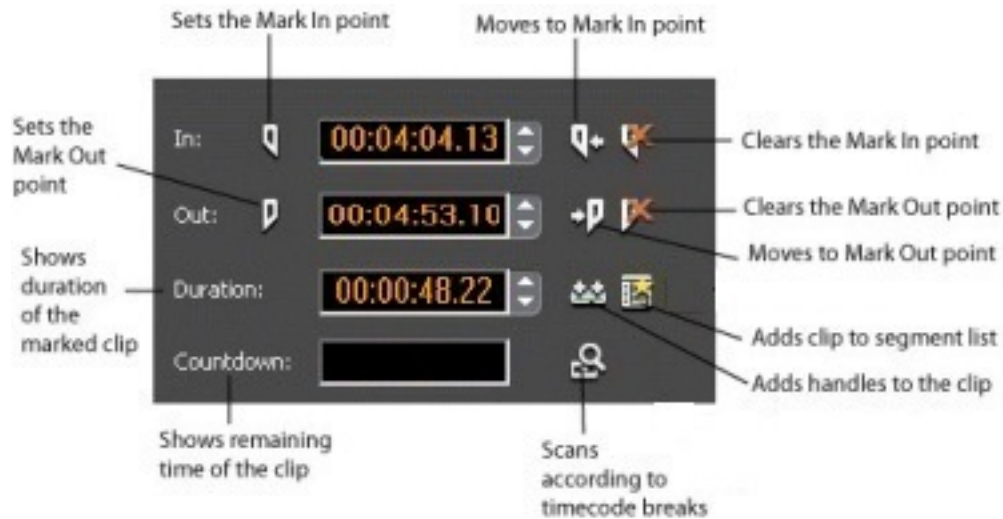
To get the footage you need to create clips, you need to play through the videotape in the VTR. GV STRATUS VTR Ingest provides transport control buttons like those on a tape deck.



Button	Function
	Jogs one frame back.
	Jogs 10 frames back.
	Jogs one frame forward.
	Jogs 10 frames forward.
	Ejects the tape.
	Rewinds the tape.
	Plays the tape.
	Fast forwards the tape.

Button	Function
	Stops the tape.

Marking In and Out Points

Mark points are used to determine the length of a clip.




1. Find the spot on the videotape where you want your clip to begin.
2. Mark an In Point using any of the following methods:
 - Press **I** on your keyboard.
 - Click the **Mark In** button  on the GV STRATUS VTR Ingest window.
 - Type the timecode in the In field.
 - Create a Mark In on the VTR.
3. Play through the tape until you reach the point where you want the clip to end.
4. Mark an Out Point using any of these methods:
 - Press **O** on your keyboard.
 - Click the **Mark Out** button  on the GV STRATUS VTR Ingest window.
 - Use the up or down arrows to find the correct timecode.
 - Type the ending timecode in the Out field.
 - Create a Mark Out on the VTR.

Ingesting clips to the media server

After you’ve created a segment (batch) list, you can ingest and record those clips to your media server.

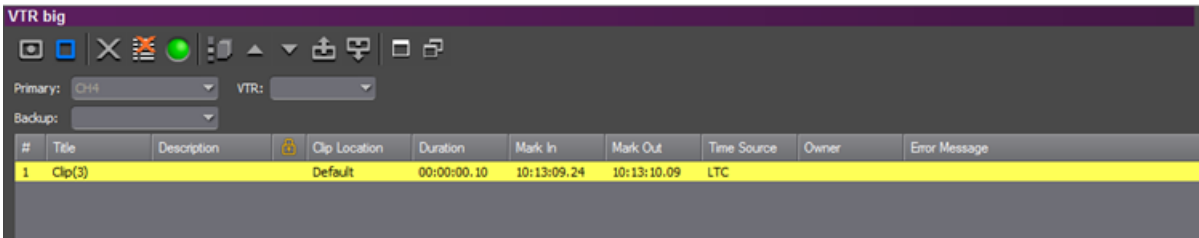
If you want to reserve a channel to record a clip using GV STRATUS VTR Ingest, you can configure this in the channel setup within Ingest setting in the GV STRATUS Control Panel.

If you are recording to SD channels of K2 version 3.2 or higher, you can also set the clip aspect ratio in the clip record area of GV STRATUS VTR Ingest. The option to switch aspect ratio is set in the GV STRATUS Control Panel | **Applications** | **Ingest** and it depends on the user administration setup of your ingest operation.

1. Make sure the Channel Window is selected.
2. Click the **Record** button .

While the clip is recording, the record button flashes to indicate an active record.

GV STRATUS VTR Ingest records clips from the VTR tape to the server for later use in a news story.




The clip status in the GV STRATUS VTR Ingest window changes from Ready -> Cueing -> Recording -> Done. If the clip didn’t record for some reason, status shows as Failed.


NOTE: The video display supports both HD and SD assets and you can configure this in the GV STRATUS Control Panel | **Format** | **View Format**.

Scanning tape with broken timecodes

Regardless of which timecode mode is used with your VTR; you can scan tapes with broken timecodes and capture clips according to timecode breaks. A batch list will automatically be created and saved as the .vlg EDL type.

To enable the feature, you need to select the **Enable Timecode Break Scan** checkbox in the VTR tab within Tools | Options of GV STRATUS VTR Ingest. Once selected, the following button appears on the clip record interface of GV STRATUS VTR Ingest.

Button	Function
	Find and ingest segments in tape according to timecode breaks.

1. Insert a tape into the VTR and click the **Timecode Break Scan** button .
2. You can choose to scan for timecode changes from the beginning of the tape or you can choose to start the scan from the current position of the tape. GV STRATUS VTR Ingest will rewind the tape if you choose to scan from the beginning.

3. GV STRATUS VTR Ingest will insert mark in and mark out points around timecode changes, and the clip is then automatically added to the segment list.
4. When all clips have been logged, GV STRATUS VTR Ingest will then ingest all clips in the batch list at the end of the operation.

NOTE: *You can also choose not to ingest segments automatically by deselecting the **Automatically start recording after Timecode Break Scan** checkbox within **Tools | Options of GV STRATUS VTR Ingest**.*

Do not save the EDL in .ale or .edl format, as the internal “control track” to properly locate broken timecodes could be lost and may result in standard VTR confusion when dealing with timecode direction. Save the EDL as .vlg type only.

Importing an EDL

You can also import an Edit Decision List (EDL) to use as your segment (batch) list. Supported EDL formats are .ale, .edl, .vlg, and .xml. Clip names in the imported file cannot be longer than 32 characters.

1. Choose **File | Import EDL**.
2. In the Open window, navigate to the correct folder, select the EDL to import, and click **Open**.

NOTE: *If your GV STRATUS metadata access control is restricted, some fields will be disabled when you import the EDL.*

3. Enter the Tape ID and select where to record the clips and click **OK**.

The EDL appears in the segment (batch) list for the selected channel and is ready to record:

4. Click Record to record your clips to the media server.

If you have a clip that failed to record for some reason, you can change its status back to Ready by highlighting the clip, right-clicking and selecting **Mark Ready**.

Importing an EDL will clear any existing segments in a VTR’s segment list.

Exporting an EDL

Instead of recording your clips to a media server, you can export them as an EDL file, which can be used by other programs. By default, EDLs are saved in a .vlg format.

1. Highlight the file or group of files you want to export.
2. Choose **File | Export EDL**.
3. Navigate to the folder where you want to export the EDL.
4. Enter a name for the file and click **Save**.

The EDLs can also be opened using an editing application’s batch (segment) capture feature.

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CMemDC - memory DC

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History

10/3/97 Fixed scrolling bug. Added print support. - KR

11/3/99 Fixed most common complaint. Added background color fill. - KR

11/3/99 Added support for mapping modes other than MM_TEXT as suggested by Lee Sang Hun. - KR

02/11/02 Added support for CScrollView as supplied by Gary Kirkham. - KR

This class implements a memory Device Context which allows flicker free drawing.

cping

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CSizingToolBar

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CSizingControlBar Version 2.43

Created: Jan 24, 1998 Last Modified: August 03, 2000

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Modify this file only to fix bugs, and don't forget to send me a copy.

Acknowledgements:

- Thanks to Harlan R. Seymour for his continuous support during development of this code.
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- And, of course, many thanks to all of you who used this code, for the invaluable feedback I received.

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The End

GV STRATUS VTR Controller Operation

Installing GV STRATUS VTR Controller Hardware

Installing RS-422 card for GV STRATUS VTR Controller

To connect a VTR to a GV STRATUS VTR Controller PC, you need to install a PCI 422 SMPTE 8 Port RoHS RS-422 card.

1. If you are connecting one or more VTRs to GV STRATUS VTR Controller, install the RS-422 card in your computer, making sure the dip switches are set to the down position as shown, and install the card's driver.



NOTE: *If only one VTR is to be connected to a GV STRATUS VTR Controller PC, you can use an alternative connection method with an RS-422 to RS-232 cable connected to the onboard COM1 port.*

2. Connect the VTR(s) to the GV STRATUS VTR Controller machine via RS-422 cable.
3. If you are using LTC for timecode, connect a timecode cable from the timecode source (VTR) to the media server.

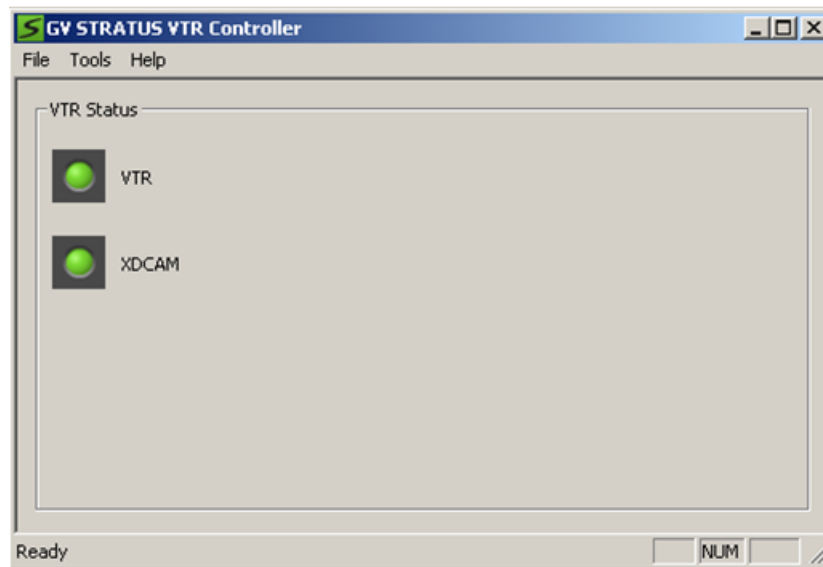
Configuring GV STRATUS VTR Controller

Configuring GV STRATUS VTR Controller Application

In order to establish a connection between GV STRATUS VTR Ingest and a VTR, you need to configure the GV STRATUS VTR Controller application.

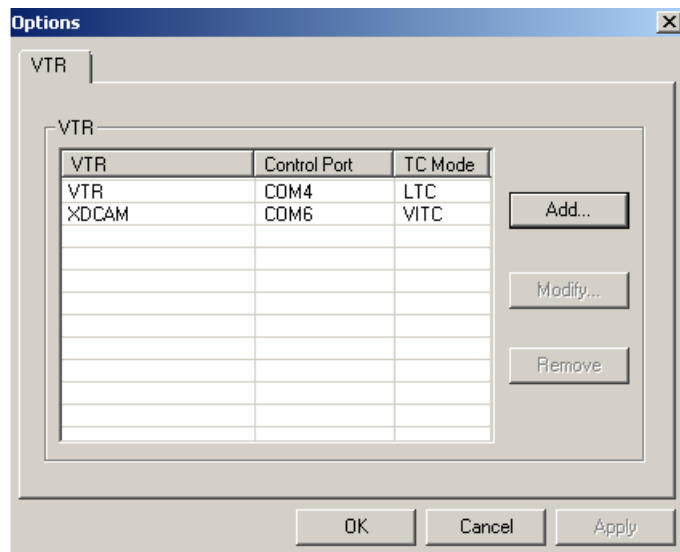
GV STRATUS VTR Controller can be installed on the same machine as the GV STRATUS VTR Ingest application, but this is not required.

1. From the Windows Start menu, select **Programs | Grass Valley | GV STRATUS VTR Controller**.



The GV STRATUS VTR Controller application opens.

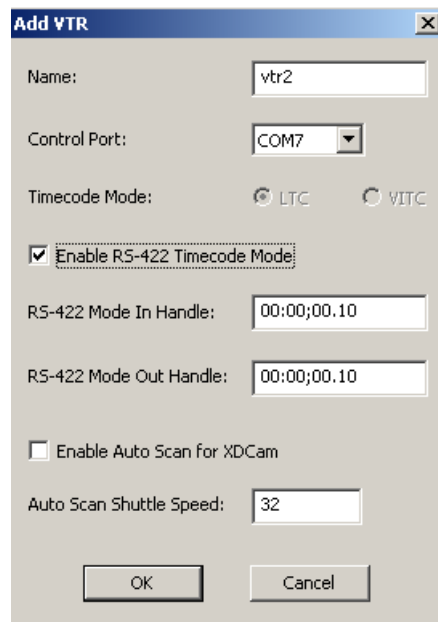
2. Select **Tools | Options**.



The GV STRATUS VTR Controller Options dialog box displays.

3. Click the **Add** button.

The Add VTR dialog box displays.



4. Enter the VTR name.
5. Select the control port and timecode mode.

NOTE: *The RS-422 timecode is not supported in this release.*

6. If you are using an XDCAM VTR, you can select the checkbox to enable auto scan for the XDCAM VTR.

The XDCAM VTR does not adhere to typical RS-422 shuttle commands. By enabling the auto scan feature for XDCAM VTR, previous and next commands will be used instead of the usual shuttle forward and back.

7. You can also change the shuttle speed for the auto scan feature.

The default is set to 32, but you can change to any value depending on the type of VTR that you use. When XDCAM mode is selected, the field to set the shuttle speed of auto scan will be disabled.

8. Click **OK** to add the VTR.

After you have successfully added the VTR, you should see it displayed in the VTR Status window with a green indicator next to its name.

Once you have added VTRs, you can modify or delete them. However, if you only have one VTR displayed in the status window, you cannot delete it and have an empty status window.

Troubleshooting GV STRATUS VTR Controller configuration

If you see a red indicator next to the VTR's name, try restarting GV STRATUS VTR Controller.

If the VTR status still displays a red indicator, verify the following:

- Check your GV STRATUS VTR Ingest configuration and make sure the VTR information matches the information you entered when configuring GV STRATUS VTR Controller.
- The correct COM port has been specified for the VTR.
- The COM port is not being used by another application controlling the VTR.
- The VTR is turned on.
- The hardware has been correctly installed.
- The IP address or computer name where GV STRATUS VTR Controller is installed matches the address or name in the GV STRATUS VTR Ingest application.

Using GV STRATUS VTR Controller

Using GV STRATUS VTR Controller

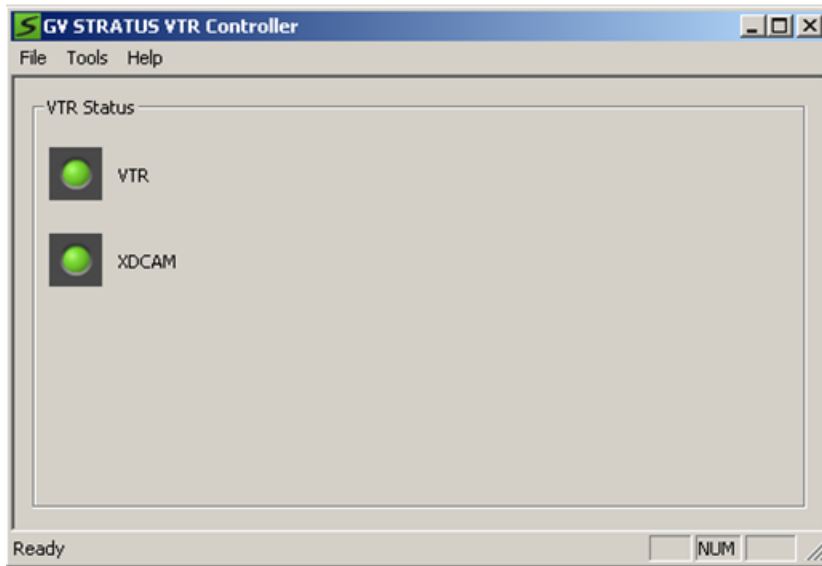
GV STRATUS VTR Controller allows you to control up to eight VTRs for GV STRATUS VTR Ingest application. Furthermore, GV STRATUS VTR Controller allows you to add, modify, or edit VTRs and configure them to work with other Ingest applications.

You can have GV STRATUS VTR Controller and GV STRATUS VTR Ingest on the same machine or on two machines connected via Ethernet. If you modify a VTR in GV STRATUS VTR Controller, verify the change doesn't conflict with the VTR settings in the GV STRATUS VTR Ingest application.

Overview of the GV STRATUS VTR Controller Window

The GV STRATUS VTR Controller window shows the status of one to eight VTRs.

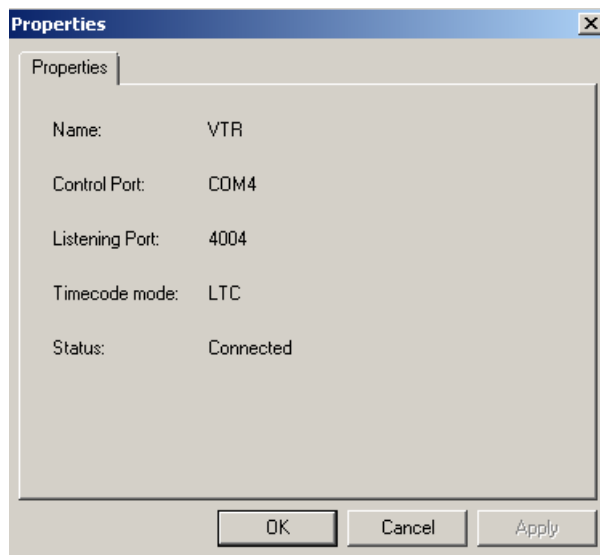
The status of each VTR is indicated by the colors: a green indicator shows that the VTR is connected, while a red indicator shows that the VTR is not connected. The status bar at the bottom of the window shows the status of the GV STRATUS VTR Controller application.



Viewing VTR Properties

Properties of each VTR can be viewed via the GV STRATUS VTR Controller user interface.

- Click on the red or green icon next to the VTR.



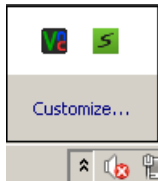
The Properties window displays.

Accessing GV STRATUS VTR Controller

There are two ways to launch the GV STRATUS VTR Controller application.

- Click on the GV STRATUS VTR Controller shortcut icon on the desktop.
- From the Start button follow this path: **Start | Program | Grass Valley | GV STRATUS VTR Controller**

When GV STRATUS VTR Controller is first started, it automatically minimizes to an icon in the right-hand corner of the Windows taskbar.



Double-click on the GV STRATUS VTR Controller icon to bring up the main GV STRATUS VTR Controller window.

NOTE: *If you click the X in the upper-right corner of the GV STRATUS VTR Controller window or select File | Exit, the application does not exit. Instead, it is minimized, and the GV STRATUS VTR Controller icon appears in the Windows taskbar. You can exit the GV STRATUS VTR Controller application by right click on the icon and select Exit.*

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CSizingToolBar

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CSizingControlBar Version 2.43

Created: Jan 24, 1998 Last Modified: August 03, 2000

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Hint: These classes are intended to be used as base classes. Do not simply add your code to these file - instead create a new class derived from one of `CSizingControlBarXX` classes and put there what you need. See `CMyBar` classes in the demo projects for examples.

Modify this file only to fix bugs, and don't forget to send me a copy.

Acknowledgements:

- Thanks to Harlan R. Seymour for his continuous support during development of this code.
- Thanks to Dundas Software for the opportunity to test this code on real-life applications.
- Some ideas for the gripper came from the `CToolBarEx` flat toolbar by Joerg Koenig. Thanks, Joerg!
- Thanks to Robert Wolpow for the code on which `CDockContext` based diagonal resizing is based.
- Thanks to the following people for various bug fixes and/or enhancements: Chris Maunder, Jakawan Ratiwanich, Udo Schaefer, Anatoly Ivasyuk, Peter Hauptmann.
- And, of course, many thanks to all of you who used this code, for the invaluable feedback I received.

CTextProgressCtrl

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Written by Chris Maunder (chrismaunder@codeguru.com)

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Modified : 26/05/98 Jeremy Davis, jmd@jvf.co.uk

Added colour routines

`TextProgressCtrl` is a drop-in replacement for the standard `CProgressCtrl` that displays text in a progress control.

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tconvert

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zlib

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Zlib

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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Jean-loup Gailly Mark Adler

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

Fault Tolerant Server

About the FT Server

Introduction

The FT server is a fault-tolerant server focusing on high reliability in terms of fault-tolerance, in addition to high performance, scalability, and general versatility. In the event of component failure on one CPU/IO module, its mirrored configuration on the other module will allow system control to be switched instantaneously to the other identical CPU/IO module to assure non-stop operation. This switching occurs seamlessly from the failed CPU/IO module to the other module, minimizing loss of data or application state. You can use the FT server series in a mission-critical system where high availability is required. By the use of the Windows Server 2008 operating system, it also provides outstanding openness for general-purpose applications, etc.

Grass Valley supplies FT servers at two performance levels. At each level, CPU, memory, and drives are configured to provide specified performance characteristics. Based on the performance required to support your small, medium, or large Grass Valley system, the appropriate FT server level is provided.

In addition, there is a Type I FT server and a Type II FT server. Each server type corresponds to a different generation of the base platform. Both the Type I FT server and the Type II FT server are provided at the two performance levels mentioned above.

Related Topics

[*Identifying the FT Server model*](#) on page 1345

Standard features

The FT server system has two CPU/IO modules with dual module redundancy, offering continuous operation in case of a failure. It offers high performance, expansion options, and high reliability outlined in the summary below.

- The system comes ready to use with quick connections for the duplex LAN, USB, and monitor connections.
- The main enclosure is rack-mountable and the main components are easy to install.
- The Fault Tolerant feature includes redundant hardware and software in one system with quick isolation of a failed module.
- The two CPU/IO modules and their hard disk drives come mirrored from the factory.
- High performance features include a powerful central processor and high speed Ethernet interface and disk access from SAS (Serial Attached SCSI) disk drives.
- High reliability is achieved by a memory monitoring feature, bus parity error detection, and error notification.
- Self diagnostics include a Power On Self-Test (POST) and a test and diagnostics utility.
- An off-line maintenance utility is also available.

To make the best use of these features, read this Instruction manual thoroughly to understand how to operate the FT server.

Product component summary

The main components of the FT server are the following:

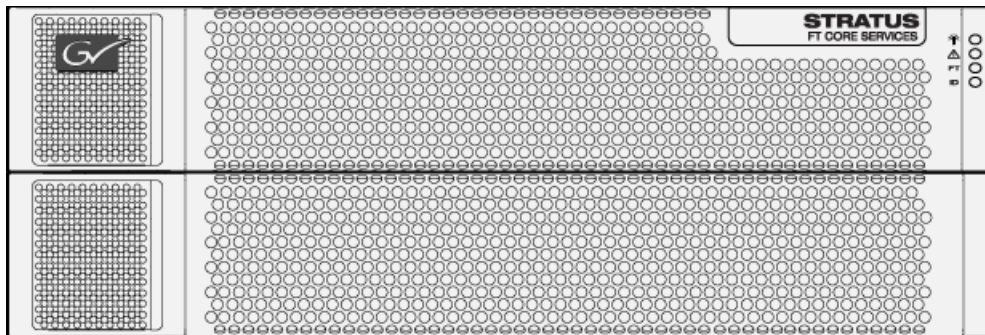
- One 4 RU high rack-mountable chassis.
- Two identical CPU/IO modules (module 0 and module 1).
- Two redundant power supplies, one in each CPU/IO module enclosure.
- Eight hard disk drive bays per CPU/IO module.
- One optical disk drive to read data from disks such as DVDs and CD-ROMs.

Main ports and connectors include:

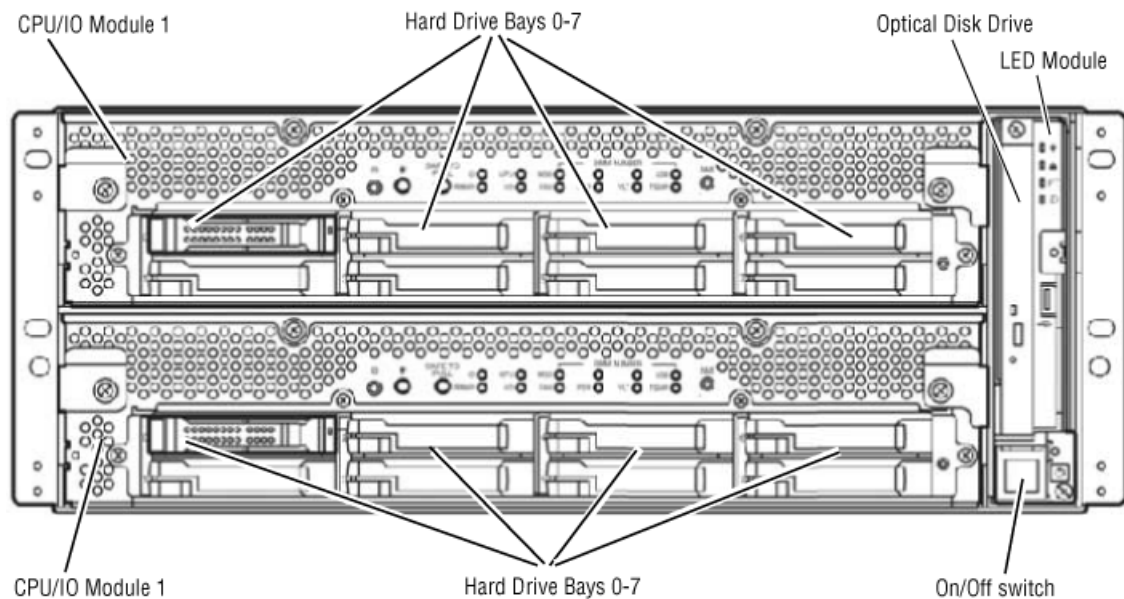
- 3 USB ports on the rear backplane for connecting devices supporting USB interface such as a mouse and keyboard.
- An Ethernet management port.
- Two Gbit Ethernet LAN connectors per CPU/IO module which are configured for teamed LAN control.
- Two COM ports for maintenance (for use with Customer Service only).
- One monitor connector for connecting a display device.

Front view

The front view of the FT server front bezel is shown below. The front bezel comes packaged separately and should be installed after rack mounting the FT server. It should remain installed during normal operation for proper cooling of the unit.



A fully loaded system is shown below with the front bezel removed. Front LED indicator states on the front bezel and on each CPU/IO module and other components visible when the bezel is removed are described in detail in the Monitoring section of this manual.

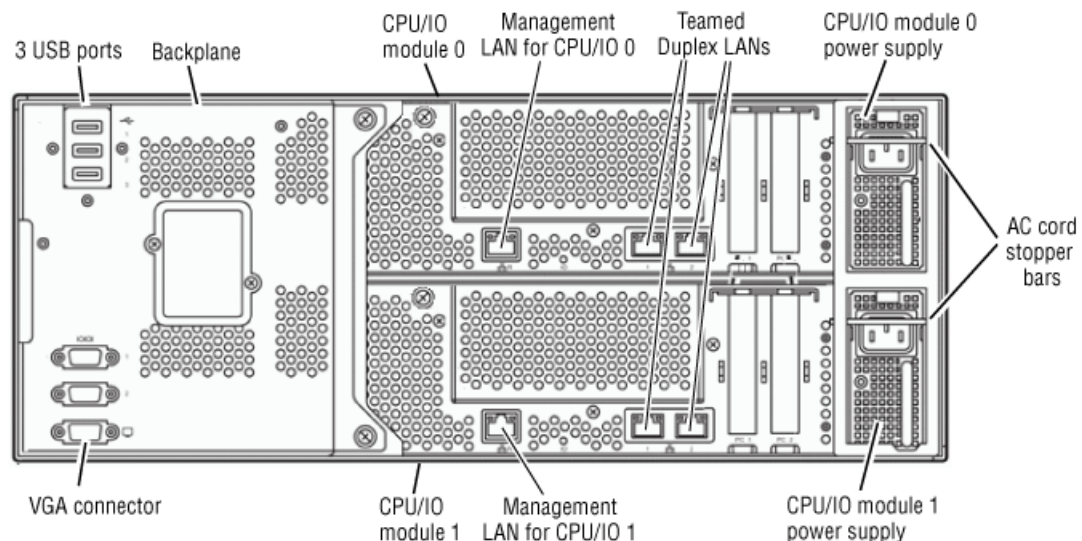


Related Topics

[Front status LEDs \(bezel removed\)](#) on page 1338

Rear view components

A rear view of the main components of the FT server is shown below.



The system backplane connects to the left rear of both CPU/IO modules. It provides USB connectors for mouse and keyboard control and serial connectors for maintenance when working with Customer Service and a VGA connector for connecting to a monitor.

The CPU/IO modules each have a separate removable power supply. When an AC cord is installed in the receptacles for each power supply, the AC cord stopper bars will be pushed up. In this position, the CPU/IO modules cannot be removed until the AC cords are removed (no power to CPU/IO modules).

Each CPU/IO module has a Maintenance LAN connector and dual LAN connectors for communication. Three USB ports are available on the system backplane for mouse and keyboard connection. All system cabling is described later in this manual.

Related Topics

[Cable connections](#) on page 1304

FT Server Installation Information

Installation overview

The FT server must be rack-mounted. It is a precision device and should be installed only by qualified maintenance personnel.

Observe the following warning and cautions to unpack, install, and use the FT server safely:

- Read and follow the safety section at the beginning of this manual. Failure to do so can pose a risk of a serious injury, such as a burn, personal injury or damage to physical assets.
- A fully loaded FT server chassis is heavy; have at least two people available for installation.
- This unit may be installed in a standard 19 inch tapped or untapped video rack or a standard 19 inch EIA IT rack.
- Install the product in places designated by the specifications only.
- Do not attempt to assemble or disassemble parts of this device alone.
- Use caution to avoid injury to hands and fingers when installing.

Unpacking

The FT server ships packaged as shown below.



You will need two or three people to unpack and rack the FT server safely.

To unpack the shipping box:

1. Cut the plastic bindings holding the outer box to the pallet and lift the outer box vertically to access the contents.

2. Lift off the accessory box and check for the contents listed below:
 - Assorted hardware for installing enclosure and side brackets
 - CD with OS software
 - Front bezel
 - Rack mount side brackets
3. Remove the 4RU enclosure with backplane and optical drive installed.
4. Remove the two identical CPU I/O modules.
5. Install the brackets and 4RU enclosure, then the CPU/IO modules and front bezel as described in the installation instructions for these items.

Related Topics

[Install chassis in rack](#) on page 1298

[Install CPU/IO modules](#) on page 1302

[Install or remove front bezel](#) on page 1314

Rack types

The FT server can be installed in any of the standard 19 inch video or EIA racks listed below.

- A standard 19 inch video rack with 0.281 round untapped holes with universal spacing requires the installation of a front adapter flange and a front plate included in the accessory kit.
- A standard 19 inch video rack with #10-32UNF tapped holes requires the installation of a front adapter flange and a rear adapter flange included in the accessory kit.
- A standard EIA IT rack with square holes uses threaded core nuts to attach the screws hold to the unit in place. No adapters are required.

Procedures for all three types of rack mounting are described in this manual. Use the procedure that matches your rack type.

Installing rack rail brackets in untapped rack

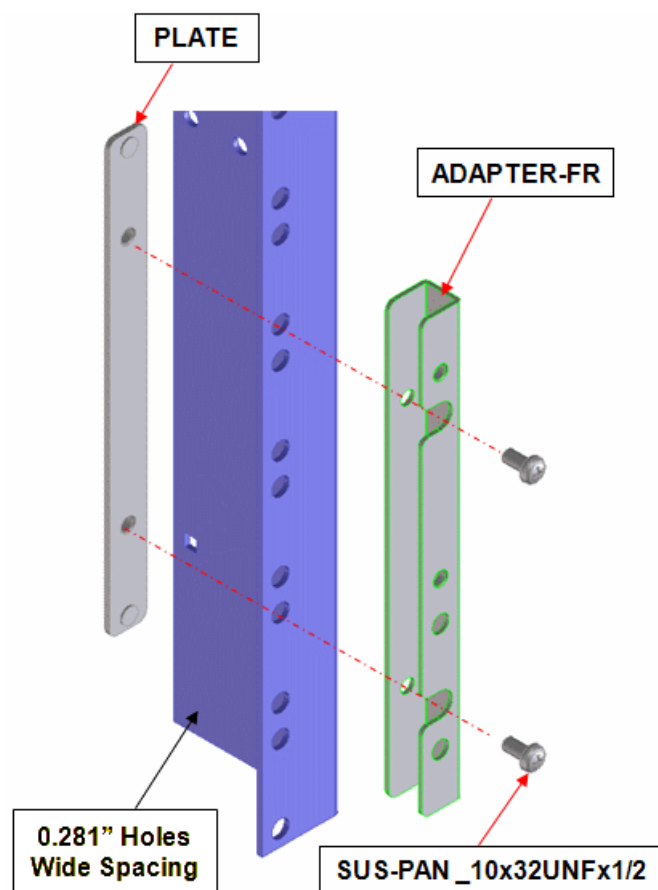
The FT server chassis requires 4RUs of space. Be sure to have another person help you to install the chassis, do not attempt to install it alone.

You will need the following hardware from the accessory kit to install the rack rail brackets to support the chassis in a untapped rack:

- 2 rack rail mounting brackets
- 2 front flange adapters (ADAPTER-FR)
- 2 plate adapters (PLATE)
- 8 panhead screws
- 4 washers

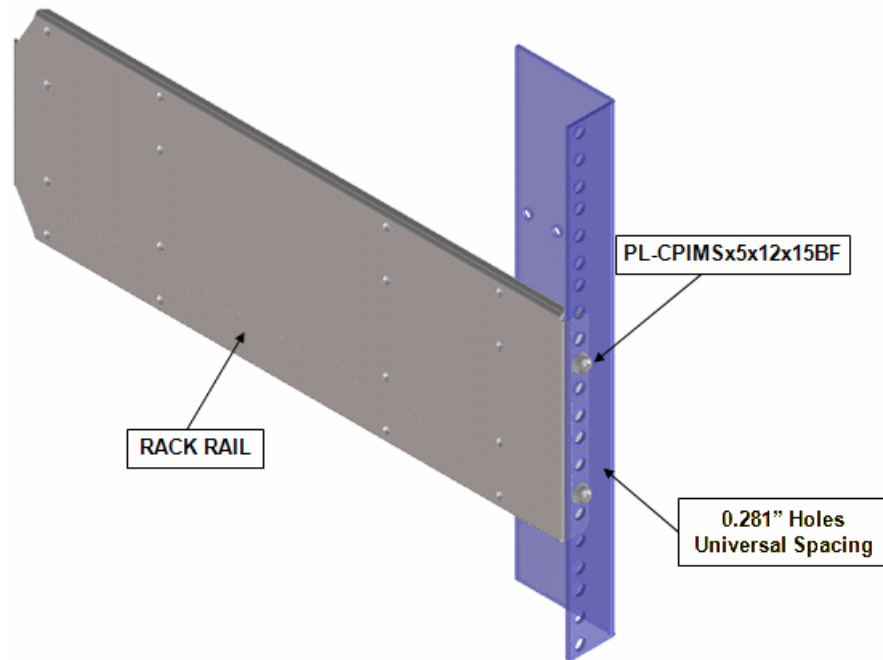
1. Locate the desired positioning of the FT server in the rack.

2. On both sides of the rack, line up the front adapter and plate as shown below.



3. Attach the front adapters and plates to the front of the rack with the panhead screws provided on the left and right sides of the rack front.

4. Now attach the rear of each rack rail bracket to the left and right rear sides of the rack using the 4 remaining panhead screws and washers. No adapters are necessary for this step.



5. Now go to the instructions for installing the FT server chassis.

Installing rack rail brackets in tapped rack

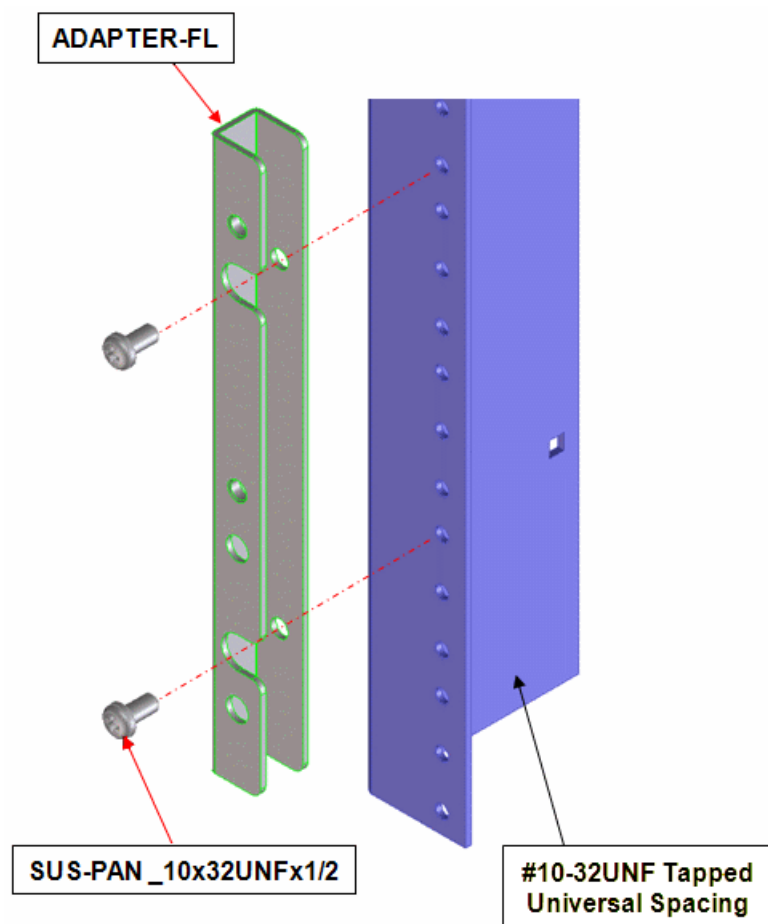
The FT server chassis requires 4RUs of space. Be sure to have another person help you to install the chassis, do not attempt to install it alone.

You will need the following hardware from the accessory kit to install the rack rail brackets to support the chassis in a tapped rack:

- 2 rack rail mounting brackets
- 2 front flange adapters (ADAPTER-FL)
- 2 rear flange adapters (ADAPTER-R)
- 8 panhead screws
- 4 panhead washers

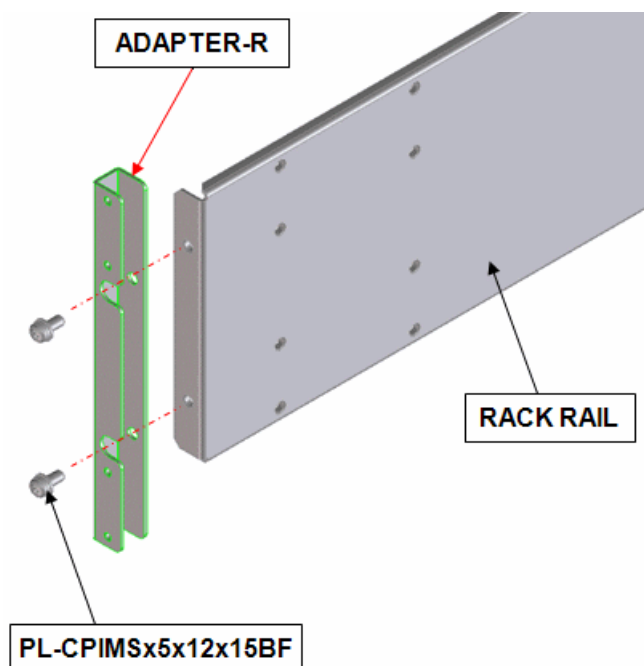
1. Locate the desired positioning of the FT server in the rack.

2. On both sides of the rack front, line up the front adapter as shown below.

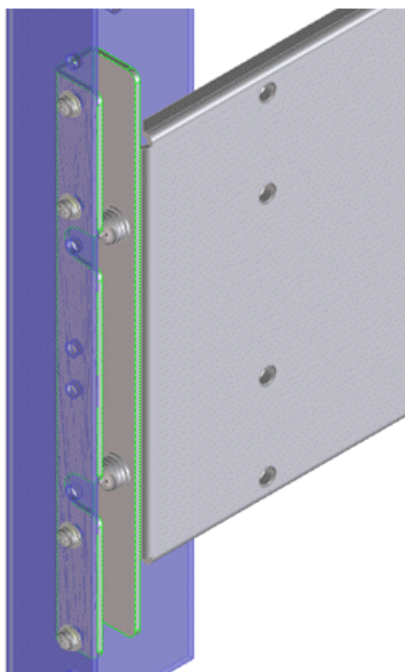


3. Attach the front adapters to the front of the rack with the panhead screws provided on the left and right sides of the rack front.

4. Attach a rear adapter to the rear of each rack rail.



5. Attach the rear of each adapter/rack rail assembly to the left and right rear sides of the rack using the 4 screws and washers.



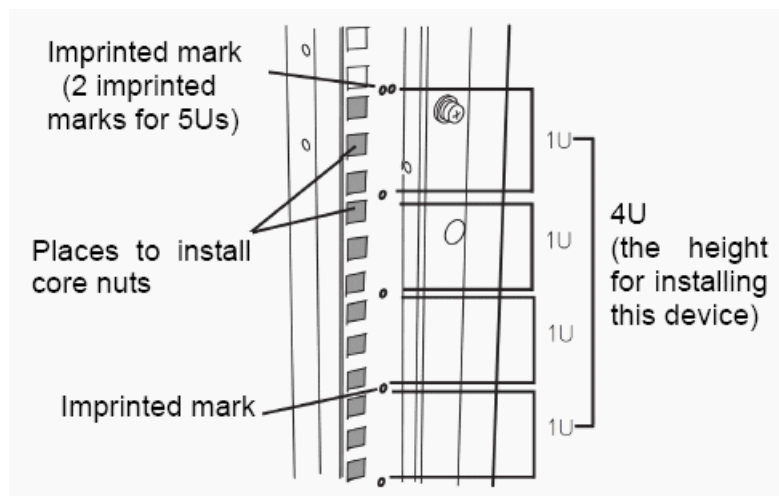
6. Now go to the instructions for installing the FT serverchassis.

Install rack rail brackets in IT rack

The FT server chassis requires 4RU of space. Be sure to have another person help you to install the chassis, do not attempt to install it alone.

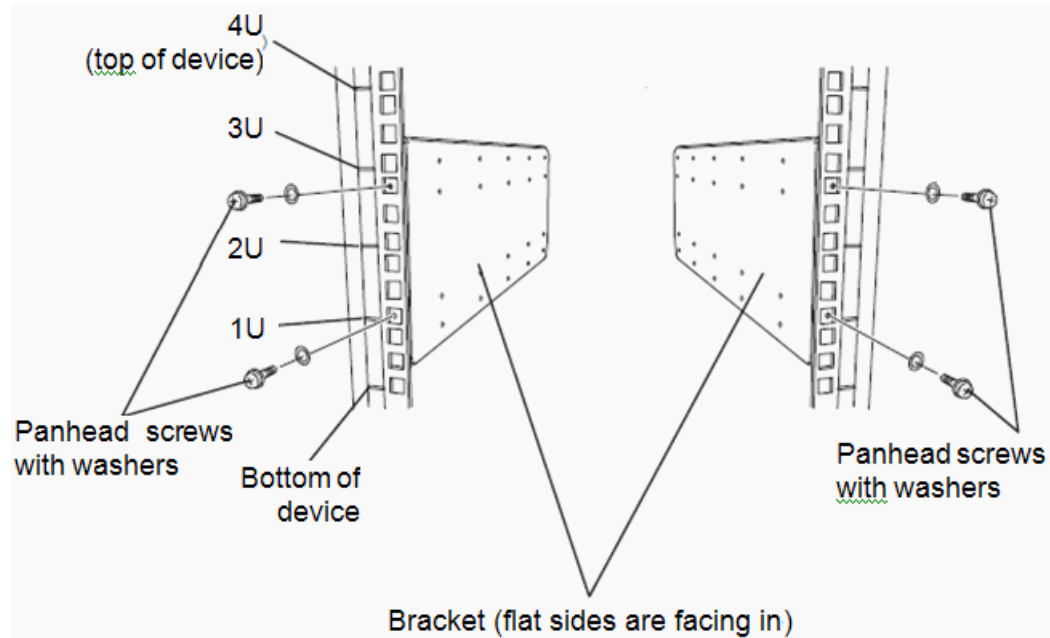
You will need the following hardware from the accessory kit to install the rack rail brackets to support the chassis in an EIA IT rack:

- 2 rack rail mounting brackets
 - 4 washers for panhead screws
 - 8 plate screws
 - 8 panhead screws
 - 4 core nuts (not provided)
1. Determine where in the rack you want to install the FT server chassis. If using an empty rack, install it in a lower position near the bottom of the rack rather than at the top to maintain balance.
 2. Next to a square hole on the rack, an imprinted mark indicates 1RU. This device is 4RU (about 176 mm), so install it between the imprinted marks that indicate the height of 4RU.

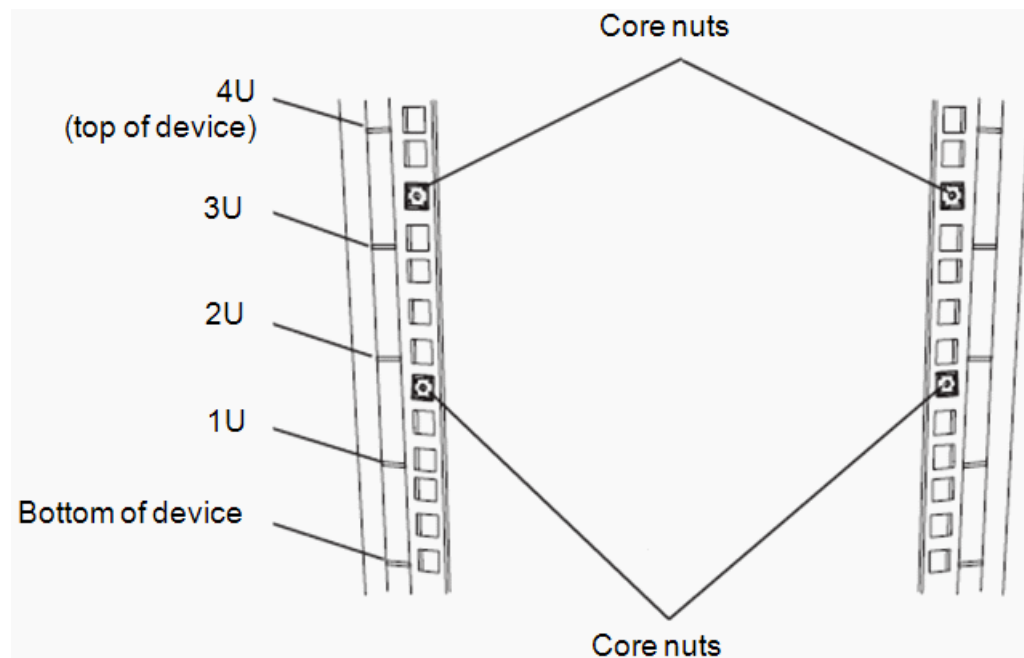


3. If the rack has front and rear doors, read the instruction that comes with the rack, and open them.

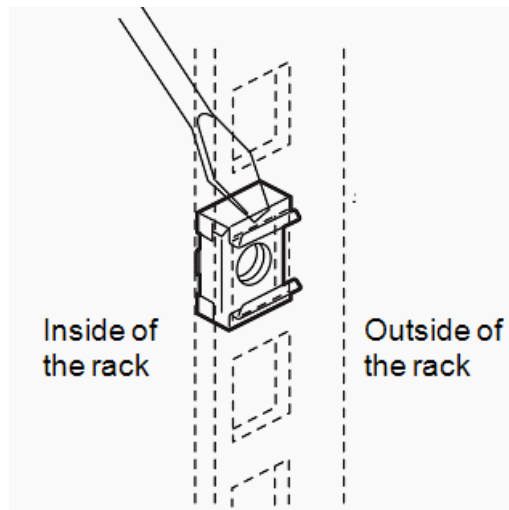
4. Install the rack rail brackets from the rear side of the rack with their flat sides facing in. Attach the brackets to the rack by installing the four panhead screws with washers just above the 1RU mark and just below the 3RU mark as shown below. Fasten the screws just enough to hold the brackets in place. Do not tighten them all the way.



5. Install the four core nuts (not provided) to the front of the rack so the left and right sides are in the same locations as shown below.



6. Install a core nut from inside of the rack. Hook either of the clips of the core nut to a square hole of the rack, then hook the other clip to a hole by a flat-blade screwdriver.



7. Now go to the procedure for installing the FT server chassis.

Temperature requirements for rack installation

The FT server requires good ventilation and proper airflow to operate properly. Make sure you meet the temperature airflow and humidity requirements listed below before installing the FT server in the rack.

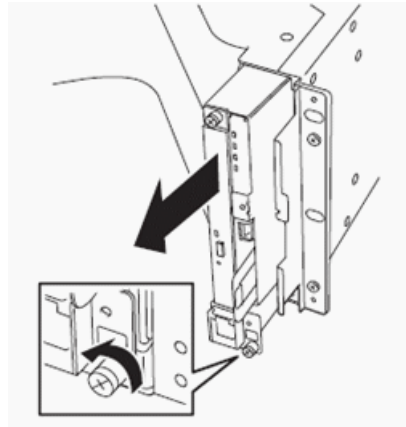
- The operating temperature of the FT server is from 10 degrees C (50 degrees F) to 35 degrees C (95 degrees F). Please take adequate precautions and measures for maintaining the proper airflow inside the rack as well as in the room so that the internal temperature can be kept within this range during operation.
- The recommended operating room temperature range is between 15 degrees C (59 degrees F) and 25 degrees C (77 degrees F).
- Optimum humidity for proper operation should be kept between 20 and 80%.
- Use only the rack installation instructions given in this manual to install the unit and other components as recommended to avoid overheating conditions.

Install chassis in rack

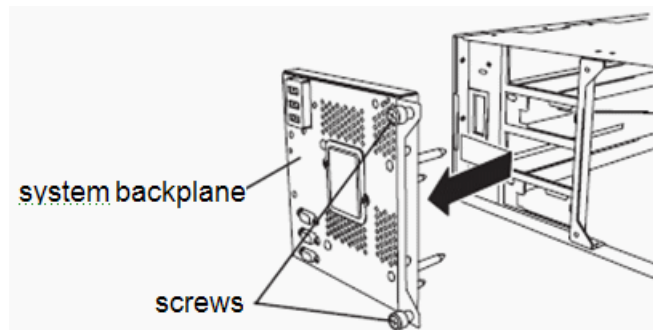
Once you have installed the rack mounting brackets, install the FT server empty chassis enclosure in the rack.

NOTE: Installation will vary slightly according to whether there is an adapter on the front of the rack. A standard EIA IT rack with no adapters is shown.

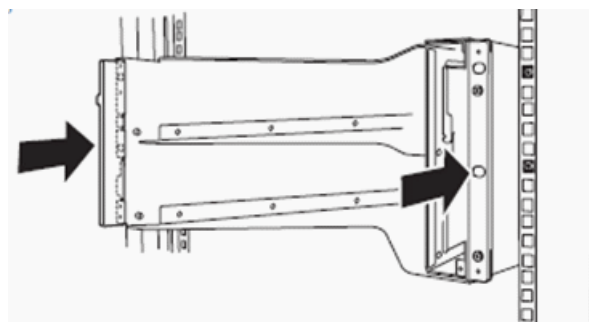
1. Remove the front unit containing the DVD drive and the LED module from the front of the chassis by loosening the screw at the bottom of the unit and pulling it out.



2. At the rear of the chassis, remove the system backplane. Loosen the two thumb screws then move the backplane slightly to the right and pull it straight out from the chassis.

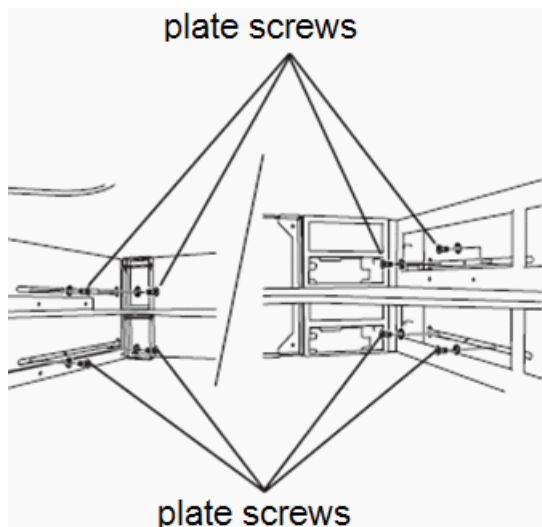


3. Insert the empty chassis into the rack from the front.

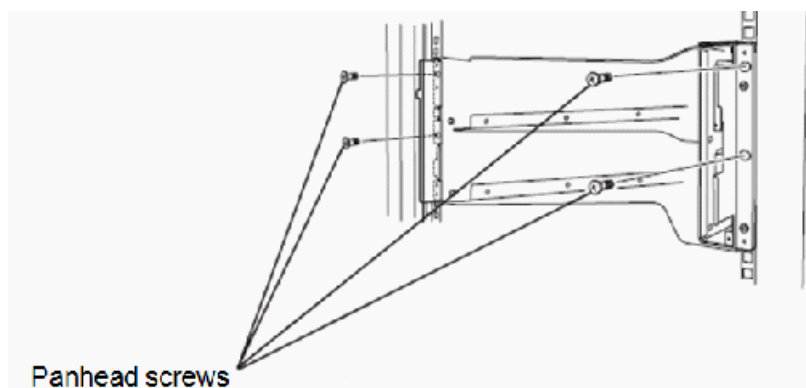


4. Align the empty chassis so it is centered on the side rack mount rails.

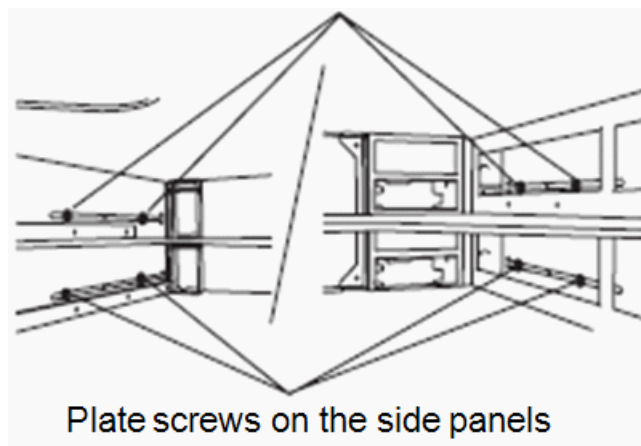
5. Loosely install the 8 plate screws through the holes on the inside of the empty chassis, fastening to the threaded holes in the side rack mount rails, as shown below. Tighten just enough to hold them in place.



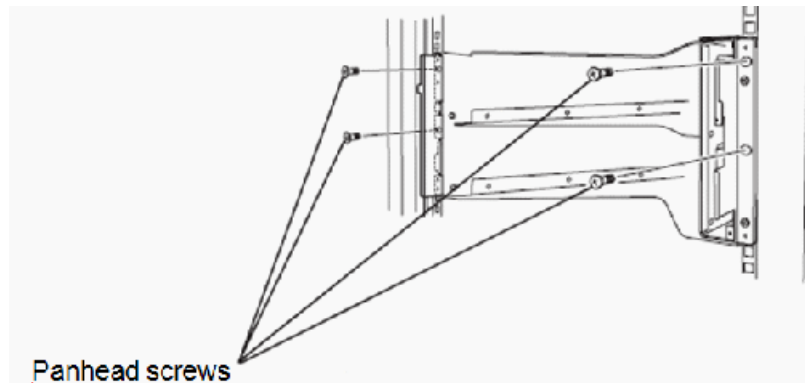
6. Securely attach the front of the chassis to the rack front with 4 panhead screws.



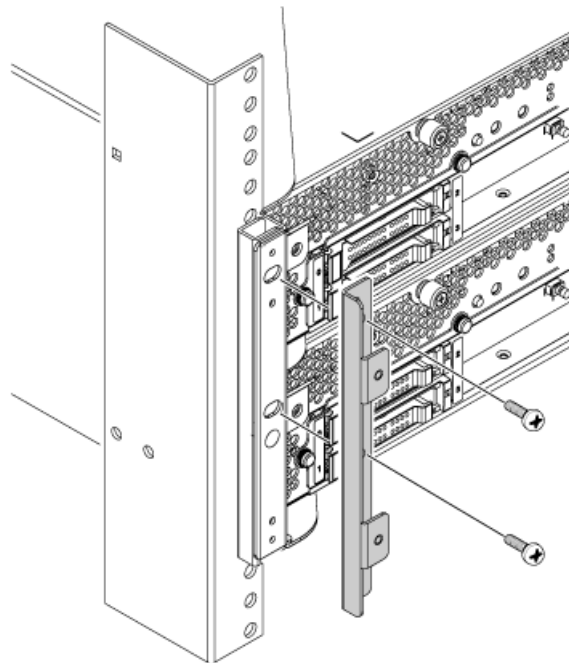
7. Tighten the 8 internal plate screws you installed earlier to secure the chassis to the side rack mount rails.



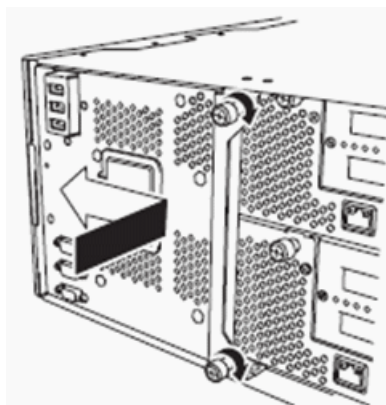
8. Remove the 4 panhead screws you installed earlier.



9. Fasten the bezel brackets to the front of the chassis on each side. Use the 4 panhead screws. Tighten securely.



10. Reinstall the system backplane in the rear of the chassis by inserting it straight into the slot then sliding it all the way to the left. Fasten the thumb screws securely by turning to the right.



11. Reinstall the front unit containing the DVD drive and LED module in the front of the chassis in the reverse order done in Step 1 of this procedure.
12. Now install the two CPU/IO modules as described in the next section.

Install CPU/IO modules

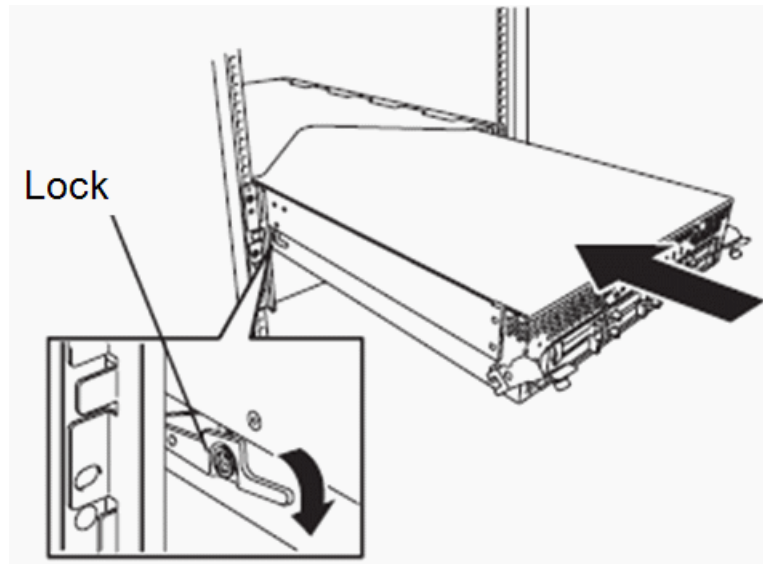
This procedure explains how to install the CPU/IO modules into the chassis enclosure once it is installed in the rack. It is recommended to have two people available to do this procedure.

There are two CPU/IO modules in the system, Module 0 (in the top slot) and Module 1 (in the bottom slot). When you receive these modules from the factory they are identical (mirrored). Either module from the factory may be installed in the top or bottom slot. Both modules have their power supply and all hard drives installed.

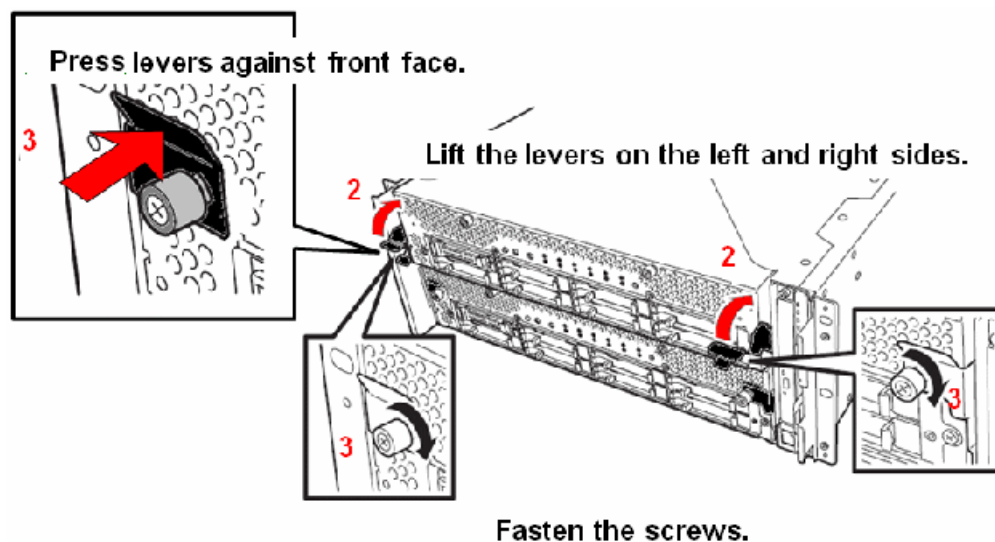
NOTE: Upon power up, the top module will be automatically designated as the Primary and the module in the bottom slot will be designated as the Secondary. All hard drives installed have been

mirrored at the factory. Once you have powered up the system, Primary and Secondary modules or any hard drives should not be swapped.

1. Mount either module into the enclosure by sliding it into the top slot. As you slide the module in, press down on the side locking lever on the left side of the module so the module slides in past the locking mechanism. You will hear a click when the side locking lever engages.

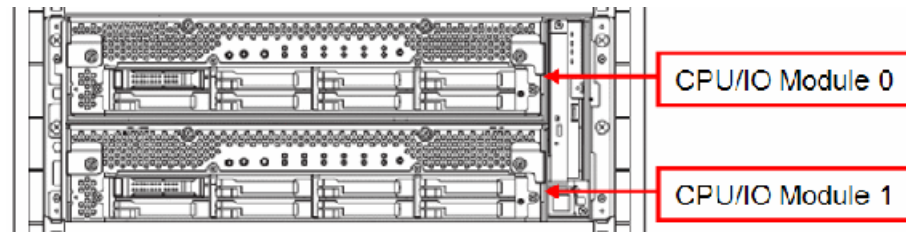


2. Once the module is all the way in, lift the front locking levers into position on both sides of the module up as shown below.
3. Press the side levers firmly against the front face as you turn the screws to the right to secure the module in the frame.



4. Repeat this procedure to install the bottom module.

The resulting installation should look like the example below from the front.



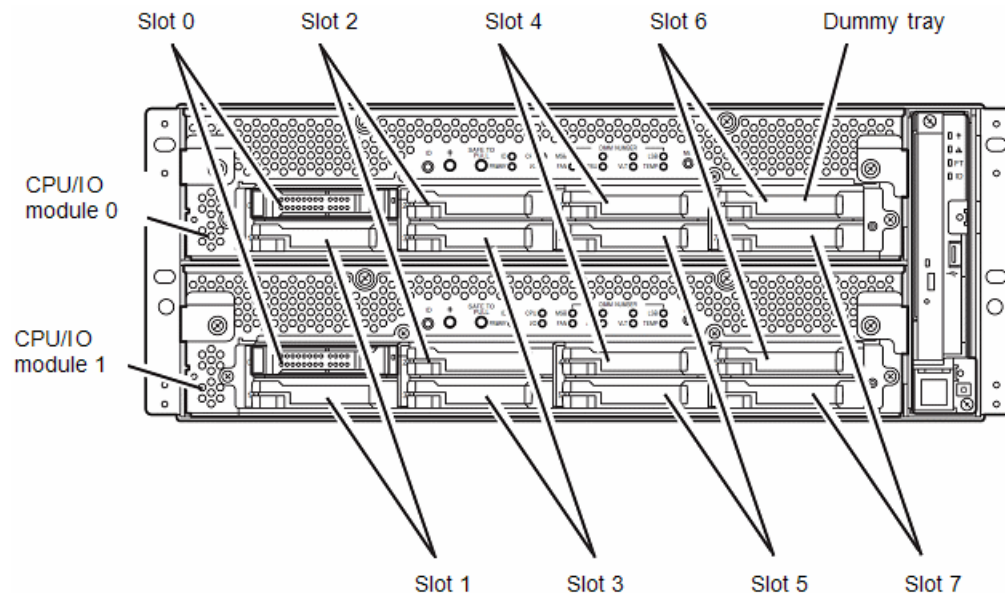
5. Install the front bezel as described in the topic describing this procedure.

2.5 inch hard disk drives

The 2.5-inch hard disk drive bays in front of the FT server can mount up to 16 hard disk drives with the 2.5 inch width exclusive trays. All hard disk drives are installed and mirrored at the factory. Do not swap the positions of any hard disk drives.

The operation is executed on the created mirror volume with installed hard disk drive pairs such as slot 0 on CPU/IO module 0/1, slot 1 on CPU/IO module 0/1, slot 2 on CPU/IO module 0/1. (The OS is installed on the mirror volumes that consist of the hard disks in the slot 0.)

Hard disk drive slot locations are shown below.

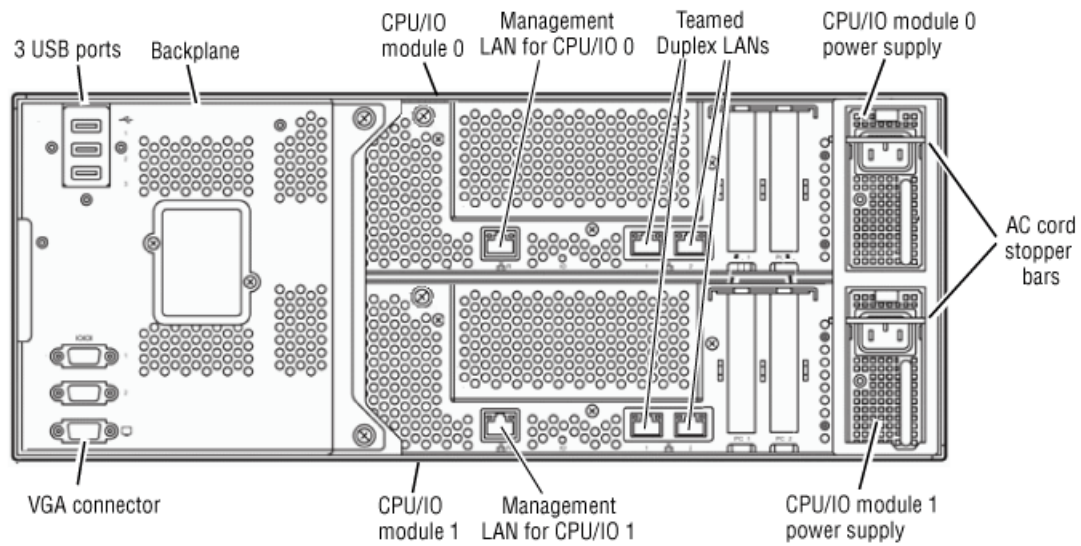


Empty slots in the 2.5-inch hard disk drive bay contain dummy trays. The dummy trays are inserted to improve the cooling effect within the device. Always insert the dummy trays in the slots with no hard disk drives installed.

Cable connections

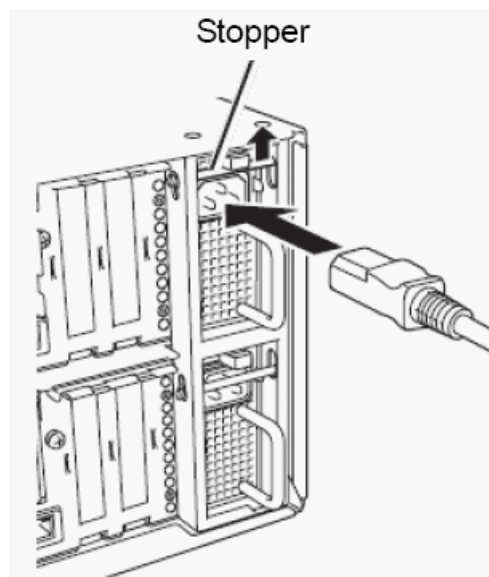
Cable connections to the FT server are made on the rear of the unit to the backplane and to both CPU/IO modules as described here.

Refer to the illustration of the rear module and its cable connections below.



1. Connect a mouse and keyboard to the USB connections on the backplane.
2. Connect a flat screen to the bottom VGA serial connector.
3. Connect the AC cords to each of the CPU/IO AC receptacles but do not power up.

Notice that when the AC cord is inserted, the AC Stopper bars will engage as shown below. The Stopper bars prevent you from removing a CPU/IO module with the AC cord connected (while powered up).



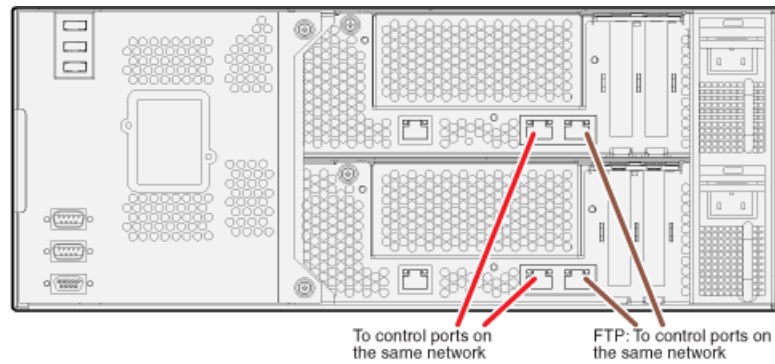
4. The Teamed Duplex LANs connect the FT server to the network as appropriate for the FT server's use as a Grass Valley system device.

STRATUS-CS-FT server: Core (B1, C1)

These cabling instructions apply to GV STRATUS Express server and GV STRATUS Core server, specified as follows:

- Grass Valley FT server with one or more roles from the following list only:
 - GV STRATUS Ingest Services (Required)
 - GV STRATUS Control Panel Service (Required)
 - GV STRATUS Common Services (Required)
 - License Manager (Required)
 - GV STRATUS Data Mover Engine (Required)
 - GV STRATUS Proxy Express Server (Required on Express server)
 - GV STRATUS Control Panel (Required)
 - GV STRATUS Core Services (Required)
 - GV STRATUS Database (Required)
 - GV STRATUS Summit MDI (Required)
 - GV STRATUS Common RESTful Archive MDI (Optional)
 - GV STRATUS Diva MDI (Optional)
 - GV STRATUS Event Viewer
 - GV STRATUS FlashNet MDI (Optional)
 - GV STRATUS Masstech MDI (Optional)
 - GV STRATUS Generic FTP MDI (Optional)
 - GV STRATUS Scheduled Transfer Engine (Optional)
 - GV STRATUS Scheduled Ingest Engine (Not used in this GV STRATUS release)
 - GV STRATUS Scheduled Ingest Manager (Not used in this GV STRATUS release)
 - GV STRATUS Topic Service Bus (Not used in this GV STRATUS release)
 - GV STRATUS Workflow Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Rules Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV STRATUS Xcode Control Engine (Required. Must be assigned to Express/Core server or to dedicated Workflow Server)
 - GV Log Manager (Required)
 - GV Log Viewer (Required)
 - GV STRATUS Traffic Gateway (Optional)
 - GV STRATUS Rundown Server Components (Optional)
 - GV STRATUS Application (Use for test purposes only)
 - If optionally used as a Render Engine, these additional roles:
 - GV STRATUS Render Engine

These roles require a connection to the control network and the FTP/streaming network.



NOTE: Network ports on CPU/IO module 1 and on CPU/IO 2 both connect to the same network. For example, both control ports connect to the same control network. Do not attempt to connect to different networks.

Related Topics

[Devices components: Roles, cab files, services, and licenses](#) on page 375

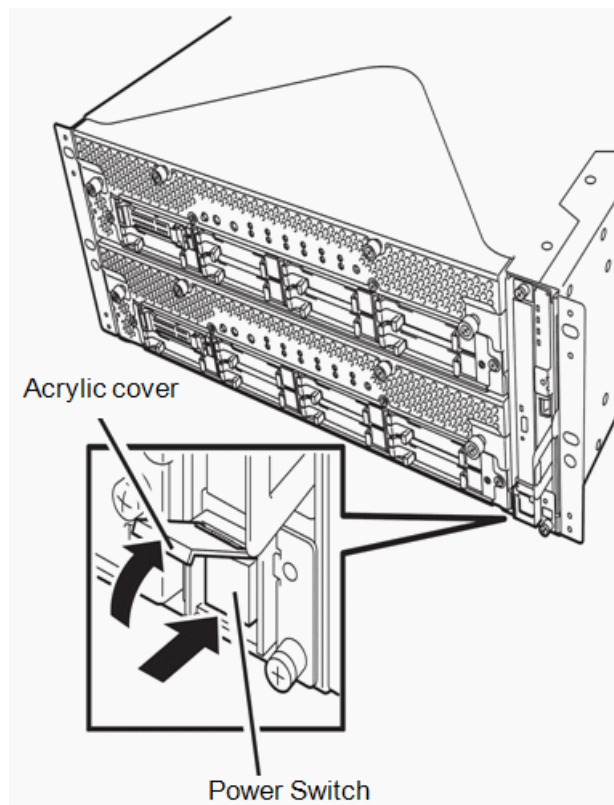
Power up

Power on the display unit and other peripheral devices connected to the server first.

NOTE: If the power code is connected to a power controller like a UPS, ensure that it is powered on.

Follow the steps below to turn on the FT server power.

1. With the front bezel removed, press the power switch located on the front panel. Lift up the acrylic cover in front of the power switch, and press the power switch to turn on the FT server.



2. Once the system has booted up, the GV logo should be displayed on the screen of the display unit. While the GV logo is displayed on the screen, the FT server is performing a power-on self test (POST) to check the unit. Upon the completion of POST, the OS will start.



If the server finds errors during POST (power up self test), it will interrupt POST and display an error message.

CPU/IO module status

The CPU/IO module (0 or 1) that is started first is managed as the primary, and the module started later is managed as the secondary. If one CPU/IO module is disconnected because of a failure, the other module becomes the primary.

The CPU/IO module to be started first is selected depending on the primary/secondary status of modules when the server was shut down the last time.

The following devices are connected to the primary CPU/IO module by the connectors on the system backplane and access both CPU/IO modules 0 and 1. When one CPU/IO module is disconnected because of a failure, those are switched to the other module automatically and continue operating.

- VGA (display)
- USB device (keyboard, mouse, optical disk drive)

NOTE: Both CPU/IO modules 0 and 1 can access the optical disk drive. If one CPU/IO module is isolated because of a failure, only the active (Primary) CPU/IO module can access the drive.

NOTE: The drive letter of the optical disk drive is reallocated automatically. The unused letter is allocated to the drive in the order of D to Z. If you want to set the fixed drive letter to the optical disk drive, specify the letter which is not allocated in the order of D to Z after setting the hard disk drive letter.

POST check

POST (Power-On Self Test) is a self-test function stored on the motherboard of the FT server.

When you power on the server, the POST will start automatically to check the motherboard, ECC memory modules, CPU/IO modules, keyboard, mouse, etc. It also shows startup messages for various BIOS setup utilities.

To view details of the POST, do one of the following:

- While the POST is being performed, press the **Esc** key.
- View the POST details from the beginning without pressing the **ESC** key when the BIOS menu appears. To do this, select **System Configuration**, then **Advanced** and set the **Boot-time Diagnostic Screen** to **Enabled**.
- View the test items and details from a management PC where ESMPRO Manager is installed.

You do not always need to check the POST details. You will need to check messages when one of the following conditions exist:

- Installation of a new FT server.
- A failure is suspected.
- Several beeps occur between the time of the power-on and OS start-up.
- The display unit shows an error message.

POST flow details

This topic walks you through how POST is performed.

1. When you power on the system, one selected CPU/IO module will start up.
POST will be performed on this selected CPU/IO module.

2. The memory check starts.

A message appears at the upper left of the screen to show that the basic and expanded memories are being counted. The memory check may take a few minutes to complete depending on the server's memory size. Likewise, it may take about one minute for the screen to appear when the server is rebooted.

3. The server starts the processor check, IO check, and initialization.

Several messages appear showing the ID of the selected CPU/IO modules, information on the processor, detection of the keyboard and mouse, etc

4. A message appears at the lower left of the screen (shown below), prompting for startup of the BIOS setup utility SETUP.

Press <F2> to enter SETUP

You will need to start it when you want to modify the configuration for using the server. Unless this message appears together with an error message, you do not need to start the utility to modify the configuration. (If you wait for a few seconds, POST will go on automatically.)

To start the SETUP utility, press **F2** while the above message is displayed.

When SETUP is completed, the server will reboot itself automatically and perform POST.

5. A message appears prompting for startup of the SAS BIOS setup utility.

When a built-in SAS controller is detected, a message will appear prompting for startup of the SAS BIOS setup utility. (If you wait for a few seconds, POST will go on automatically.)

If you press **Ctrl + A**, the SAS BIOS setup utility will start. However, you usually do not need to use the setup utility. For setting and parameter functions, see the Configuration section of this manual.

When SETUP is complete, the server will reboot automatically and perform POST from the start again.

6. The screen shows the ID numbers of the connected disk drive.
7. Upon completion of POST, the password entry screen appears prior to OS startup.

The password entry screen will appear after the normal termination of POST only if you have set a password in the BIOS setup utility SETUP.

You can enter a password up to three times. If you enter an incorrect password three times, the startup will be unsuccessful. In this case, turn off the power and then turn it on again after waiting 30 seconds to boot the server.

IMPORTANT: Set a password after the OS installation.

8. Upon completion of POST, the OS will start up.

POST error messages

When the server detects an error during POST, it will notify you of the occurrence in the following manners:

- Displays an error message on the display unit.

Write down the error messages. They will serve as helpful information during maintenance or if you need to contact Customer Service.

POST Message

In a normal situation, the POST Code and BIOS Build Number are displayed on the top side of the Virtual LCD.

The POST running LCD format is shown in the table below.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	X	X	X	X				B	I	O	S	Z	Z	Z	Z	
1																

The POST running LCD format detail is shown in the table below.

Display	Description
XXXX	Normal: Currently executing POST code
ZZZZ	BIOS Build Number

The message displays the state of duplication on the upper row of LCD by software driver after the OS boots.

The Boot message for the Virtual LCD is shown in the table below.

LCD Message	Row	Representation	Comments	Action
CPU broken	Upper	DC ON	If CPU part is broken, LCD is displayed on the broken CPU/IO modules.	The module displayed LCD is broken. Change the broken CPU/IO module.
I/O broken	Upper	DC ON	If IO part is broken, LCD is displayed on the broken CPU/IO modules.	The module displayed LCD is broken. Change the broken CPU/IO module or PCI card.
System Duplex	Upper	DC ON	When the system is under duplex mode, the message is displayed on both CPU/IO modules.	System duplex completed.
System Simplex	Upper	DC ON	When system is not under duplex mode, the message is displayed on the CPU/IO module working normally.	The system is working under simplex mode.

LCD Message	Row	Representation	Comments	Action
Split Mode	Upper	DC ON	The message is displayed on the standby CPU/IO module during Split mode.	Active Upgrade

POST or OS Error behavior

If the POST or OS startup does not finish normally, the server will reboot itself automatically.

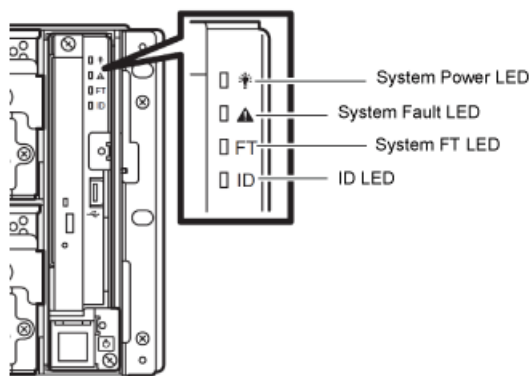
At the time of reboot, it will select the other CPU/IO module and run POST or OS startup.

In this manner, the server retries POST or OS startup with different combinations of CPU/IO modules. If POST does not finish normally with any combinations, the server will stop with the state of DC OFF or POST end with an error message displayed.

While performing retries, the server displays or registers the error types.

Front panel LEDs

On the right side of the front of the unit are four LEDs that show the current system conditions.



The LED meanings are shown in the table below.

LED Name	Function	Description
System Power LED	Indicates Power condition of system.	Green: System DC ON. OFF: System DC OFF or AC OFF.

LED Name	Function	Description
System Fault LED	LED Amber is on or blinking if either CPU/IO module is broken. When LED is on, detail information is displayed on ExpressScope (LED panel that is visible when front bezel is removed).	<p>Amber: Either CPU/IO module has a failure.</p> <p>A CPU/IO module can not be brought up in case that CPU/IO module is not connected to AC.</p> <p>Amber blinking:</p> <p>It is difficult to distinguish a faulty CPU/IO module. For example, indicating a loss of synchronization. In this case, it is possible that both CPU/IO modules will need to be replaced.</p> <p>When analyzing Ringbuffer, there is a possibility that the cause and faulty CPU/IO module can be found out.</p>
System FT LED	Indicates system is duplexing.	<p>Green: Duplexing</p> <p>Green blinking: Split operating by Active Upgrade.</p> <p>Off: Running under simplex.</p> <p>Off: LAN or FC function is not duplexing.</p>
ID LED	Pushing ID Switch, or demanding ID from remote.	<p>Blue: ID switch has been pressed.</p> <p>Blue blinking: Demanded ID from remote.</p> <p>Off: No demand.</p>

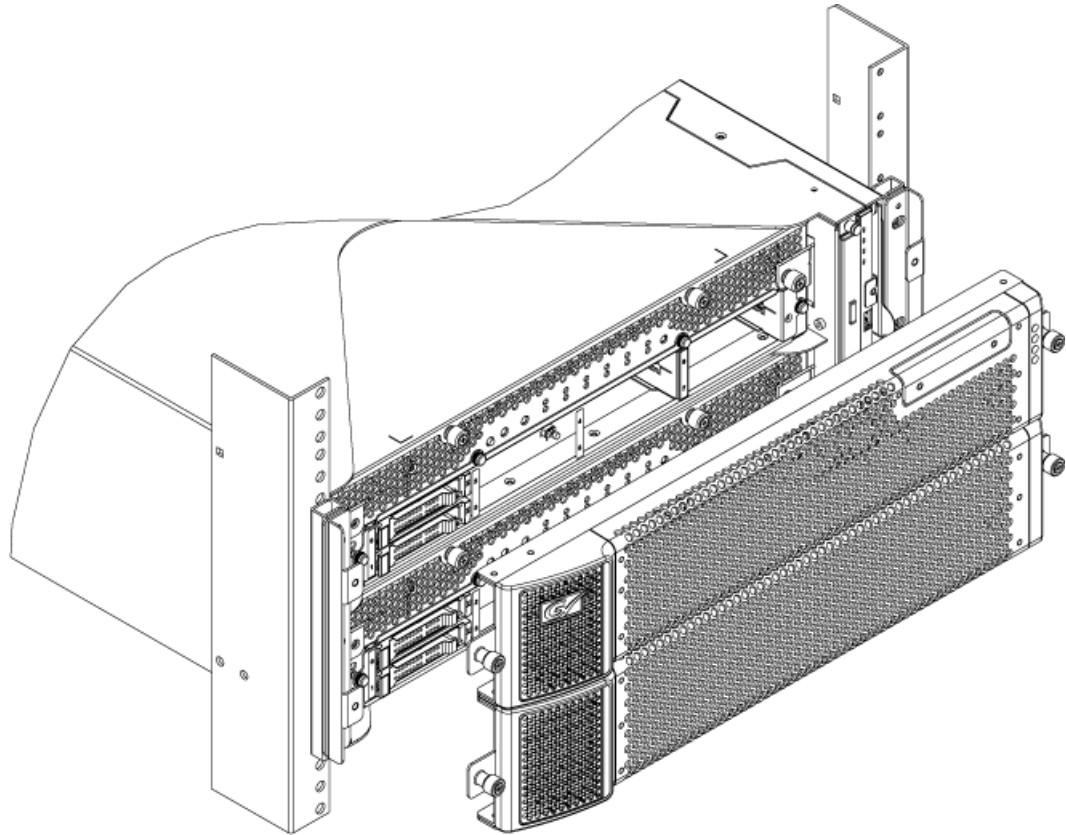
Install or remove front bezel

When your system is up and operating normally, install the front bezel. Mount it on the front of the unit and turn the thumb screws on both sides to the right.

You may remove the front bezel while the unit is powered up to check LED status.

To remove the front bezel:

1. Unscrew the two thumb screws on either side of the front bezel.



2. Remove the front bezel carefully and set in a protected location to prevent damage.

NOTE: *Keep the front bezel installed on the unit during normal operation.*

Power off

Follow the steps below to turn off the power. If the FT server is plugged to a UPS (Uninterrupted Power Supply), refer to the manuals included with the UPS or the application that controls the UPS.

1. Perform a normal shutdown from the OS.
The entire system will be powered off automatically. (Note: the POWER switch on the primary side will remain lit when AC power is supplied.)
2. Power off all peripheral devices.

Configuring the FT Server

Configuration overview

If you have received your FT server from the factory for use in a STRATUS Media Workflow system, it has been configured with all necessary STRATUS software and all server functionality such as duplexed LANs and Rapid Disk Resync (RDR) has been performed at the factory. Once you have installed and powered up your system, refer to the STRATUS documentation for further instructions.

If you have received your FT server from the factory as a replacement for an older server in a STRATUS Media Workflow system, it will require the installation of STRATUS software using SiteConfig. The Discovery Agent utility necessary for SiteConfig has been installed at the factory and all server functionality such as duplexed LANs and Rapid Disk Resync (RDR) has been performed. Once you have installed and powered up your system, refer to the STRATUS Media Workflow documentation for further instructions.

Service Program configuration

The FT server achieves the duplex system using the following service programs which are configured at the factory, in addition to dedicated drivers.

Service program names shown in **Services**:

- ftSys eService (outputs SEL (System Event Log))
- ftSys Maintenance and Diagnostics (MAD) (provides ft control management and diagnostic features)
- ftSys RPC Provider (manages WMI configuration and status)
- Windows Management Instrumentation
- ftSys SSN (controls communication between modules, such as when executing an Active Upgrade)
- SNMP Service
- Alert Manager Main Service
- ESMFSService
- ESMCommonService
- ESRAS Utility Service
- ESMPS
- Virtual Disk Service (vds)
- DHCP Client

The above programs are necessary for the FT server operation. Do not stop these services.

When minimizing the number of operating service programs temporarily is required, the following service programs may be stopped:

- ESRAS Utility Service

Make sure to restart the operations of stopped service programs immediately after the backup processes are completed.

Confirming control software version

This topic describes how to check the version of FT server Control Software, which consists of various types of software for fault tolerance. Perform the procedure when you need to check the FT server Control Software version of the current system before adding units or connecting to other ft servers.

Confirm the version following the steps below:

1. Log on the system as an authorized **Administrator**. Select **ftServer Control Software** from the list of programs to check the Product version.
2. Open **Control Panel** from the **Start** menu.
3. Open **Programs and Features**. If the **Programs and Features** icon is not displayed, open **Programs** and click **Programs and Features**.
4. Select **ftServer Control Software** from the list of programs to check the Product version.

Disk operations

The topics in this section explain disk operation using the RDR (Rapid Disk Resync) function.

The FT server duplicates disks to secure data by using the Rapid Disk Resync (RDR) function. The topics in this section describes operations such as configuration of dual settings to disks and replacement of disks.

Dual disk configuration overview

The FT server secures data by setting the dual disk configuration using the RDR (Rapid Disk Resync) function in the control software. Dual disk configuration procedures differ depending on whether you are configuring the system disk (slot 0) or the data disk (slot 1 to slot 7).

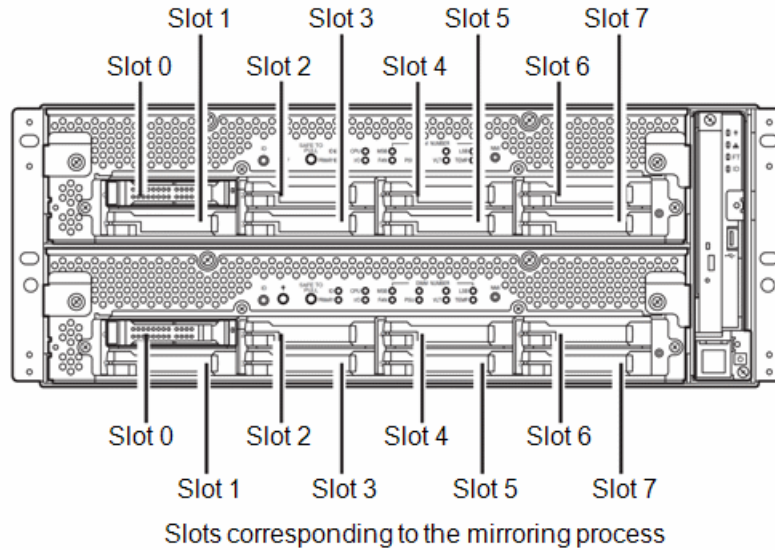
There are two different procedures:

- To configure the dual disk of the system disk, refer to the System Disk Dual Configuration Procedure.
- To configure the dual disk of the data disk, refer to the Data Disk Dual Configuration Procedure.

IMPORTANT: Refer to the following notes:

- The CPU/IO module has a processor function part and an IO function part and monitors and manages each part. The IO function part is referred to as PCI module in this section.
- Hard disk drives mounted in built-in slots need to be duplexed.

By setting RDR, as the following figure and table show, dual configuration is set between the disks of the corresponding slots and then these disks are recognized as one virtual disk by Windows (such as Disk Management and Device Manager).



Corresponding slot
PCI module 10 Slot 0 ⇔ PCI module 11 Slot 0
PCI module 10 Slot 1 ⇔ PCI module 11 Slot 1
PCI module 10 Slot 2 ⇔ PCI module 11 Slot 2
PCI module 10 Slot 3 ⇔ PCI module 11 Slot 3
PCI module 10 Slot 4 ⇔ PCI module 11 Slot 4
PCI module 10 Slot 5 ⇔ PCI module 11 Slot 5
PCI module 10 Slot 6 ⇔ PCI module 11 Slot 6
PCI module 10 Slot 7 ⇔ PCI module 11 Slot 7

* In the table above, PCI module names correspond as follows:

PCI module (for CPU/IO module 0) - PCI module 10

PCI module (for CPU/IO module 1) - PCI module 11

CAUTIONS: Read the following cautions before using the RDR Utility:

- RDR can only be used on the disks inserted into the built-in slots of the FT server. It cannot be used on the dynamic disk.
- Be sure to use a basic disk as the system disk. Only a data disk can be used for a dynamic disk.
- Be sure to specify RDR to all disks inserted in the built-in slots and make duplex settings.
- Be sure to configure the RDR settings in the same way not only when the OS is installed but also when the disk is added to the PCI module.
- RDR can only be used on basic disks. If a span volume or stripe volume is needed, configure RDR to a basic disk and then change the disk to a dynamic disk using **Disk Management**.
- Before performing physical formatting, change **OS Boot Monitoring** to **Disabled** on **Server Monitoring Configuration** in the BIOS setup utility.
- If the system is shut down (or restarted) while the mirror is broken, or a long time (30 minutes or longer) has passed after the mirror is broken, the mirror resynchronization target will be the entire area of the partition existing on the disk. For example, if the mirroring has been broken due to a PCI module failure, when you shut down the system and replace the PCI module in such a state, the entire area of the partition existing on the disk needs to be resynchronized.

- Create a data disk partition after configuring the RDR. If you create a data disk partition before configuring the RDR, the partition's drive letters may be deleted when the RDR is configured.

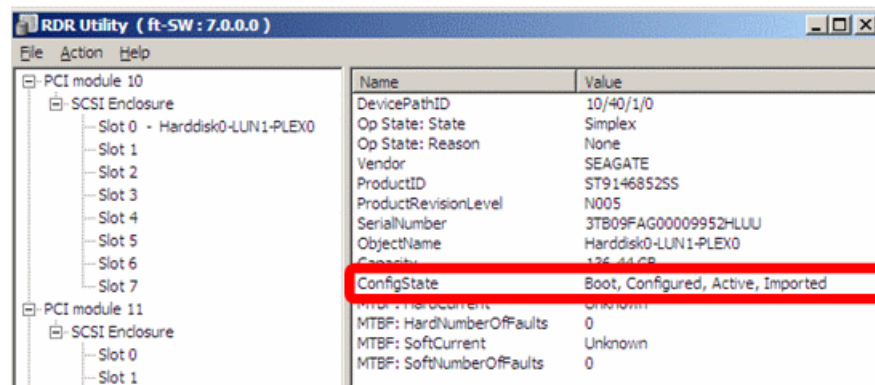
System disk dual configuration procedure

Read the Dual Disk Configuration Overview before performing this procedure.

Configure the dual disk of the system disk with the following procedure.

NOTE: To perform this procedure, you need to log on as an administrator or a member of an administrator group.

1. Go to **Start | All Programs | RDR | RDR Utility** and start the RDR utility. On the left pane of the RDR utility, select **Slot 0** of PCI module 10 under **SCSI Enclosure** and confirm that the **ConfigState** on the right pane reports: **Boot, Configured, Active, Imported**.



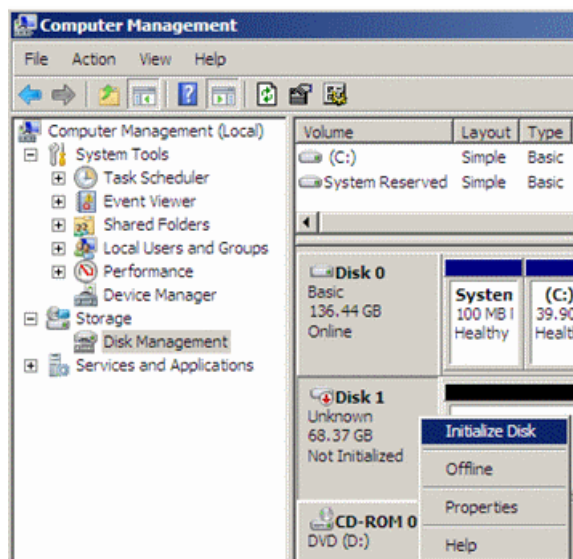
TIPS:

- The RDR Utility display does not refresh automatically. From the menu, go to **Action** and click **Refresh** or press the F5 key every time you conduct disk-related operations such as connecting/disconnecting disks or configuring the RDR.
- On the RDR Utility, PCI module names appear as follows. PCI module (CPU/IO module 0) – PCI module 10 PCI module (CPU/IO module 1) – PCI module 11.

NOTE: Be sure to use new disks or physically formatted ones with the same capacity as the synchronization source disk. If you use other disks, dual configuration will not be correct.

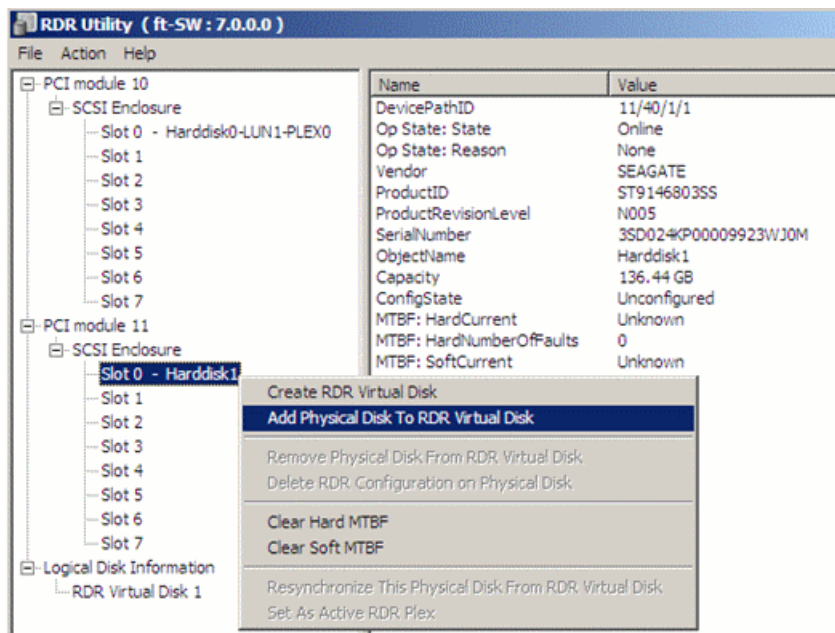
2. Insert the disk for the dual configuration into Slot 0 of PCI Module 11.

3. Start **Computer Management** by going to **Start | Administrative Tools** and select **Disk Management** in the left tree. If the disk reports **Not Initialized** on the right pane, right-click on the relevant disk to initialize.

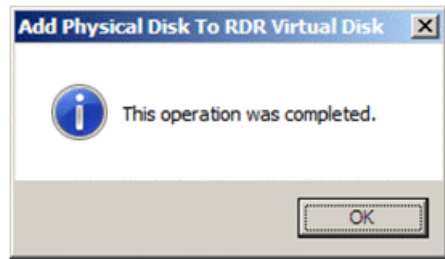


IMPORTANT: A popup window prompting you to reboot appears when inserting or initializing the disk; however, you do not need to reboot the system. Select **Restart Later** to exit the popup window.

4. Right-click on Slot 0 of PCI module 11 from the left pane of the RDR Utility and click **Add Physical Disk To RDR Virtual Disk**.

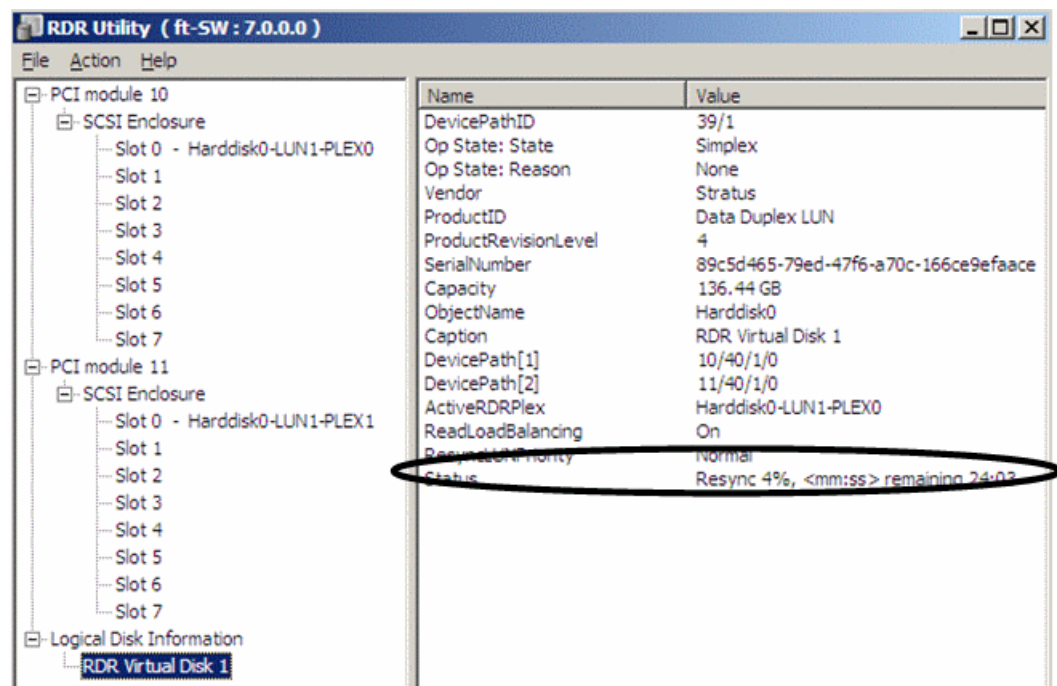


5. Click **OK**.



6. Verify that disk synchronization has been started and the status of the DISK ACCESS LED and RDR Utility display changes during synchronization as described in the table and RDR Utility screen below:

During synchronization	Disk Access LED	RDR Utility	
Synchronization source disk	Amber and blinking	Condition: Simplex	Status: N/A
Synchronization destination disk	Amber and blinking	Condition: Syncing	Status: N/A
RDR Virtual disk	N/A	Condition: Simplex	Status: Resync x % (x=0, 4, 8,...96



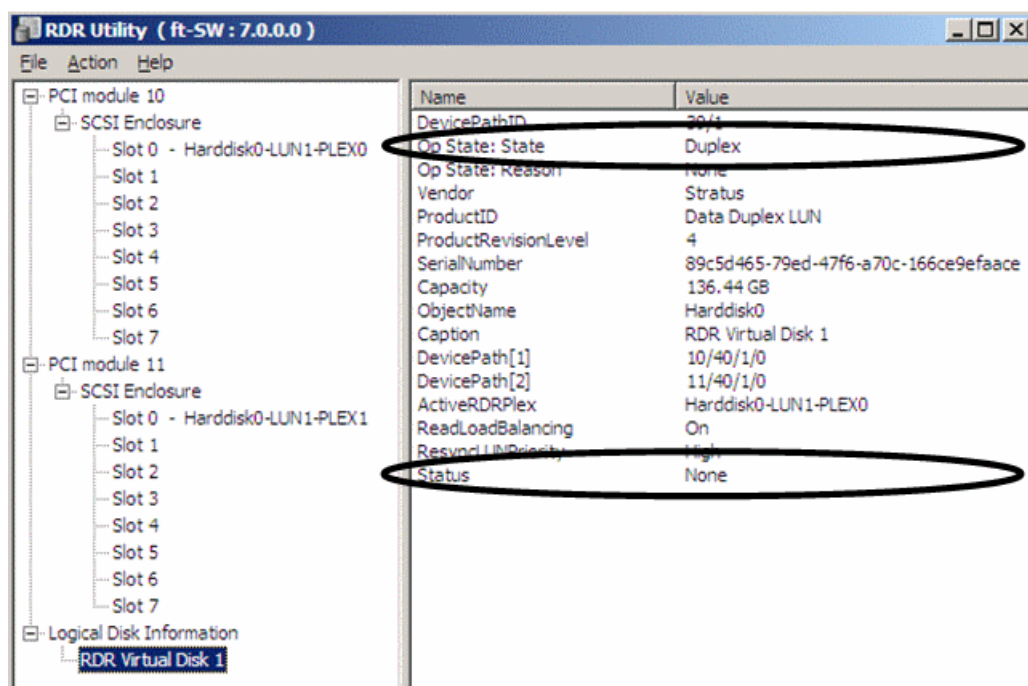
IMPORTANT:

- The time required for synchronization varies depending on the partition size on the disk. For a 40GB partition, it takes about 50 minutes.
- Setting dual disk configuration may not complete if you reboot the system during the synchronization. Do not reboot the system before the synchronization process completes.
- If the system stops by terminating Windows improperly such as pressing the **Power** button, the whole disk area already synchronized will be resynchronized after rebooting the system.

Verify that disk synchronization is complete by noting that the status of the DISK ACCESS LED and RDR Utility display change as described in the table and RDR Utility screen below:

Synchronization completed	Disk Access LED	RDR Utility	
		Condition	Status

Synchronization completed	Disk Access LED	RDR Utility	
Synchronization source disk	Green and blinking	Duplex	N/A
Synchronization destination disk	Green and blinking	Duplex	N/A
RDR Virtual disk	N/A	Duplex	None



Data disk dual configuration procedure

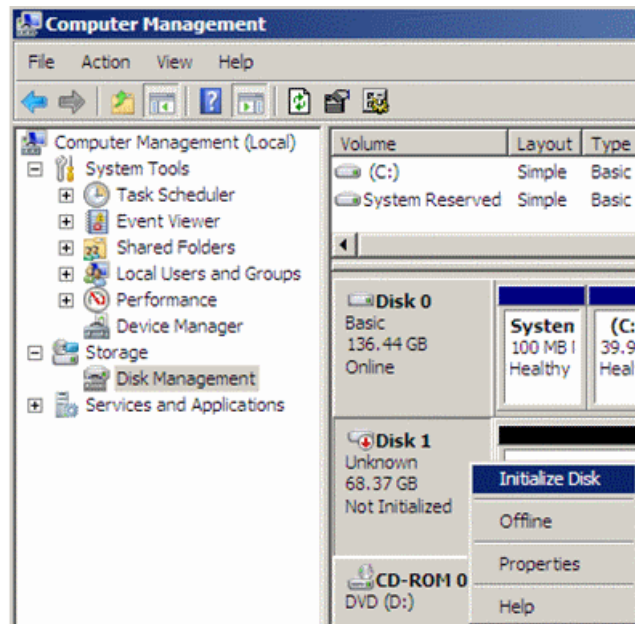
NOTE: Read the *Dual Disk Configuration Overview* before performing this procedure.

Follow the procedure below to configure dual data disks for slots 1 to 7.

IMPORTANT: The following procedure describes how to configure the dual disk for Slot 1. To configure the dual disks for Slot 2 to Slot 7, follow the same instructions for Slots 2-7 as Slot 1, selecting the proper disk.

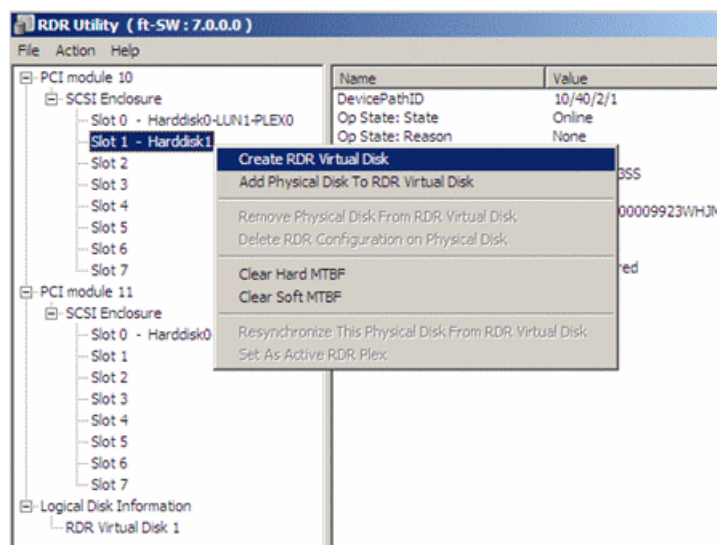
1. Insert a disk for the dual configuration into slot 1 of PCI Module 10. If a disk is already mounted, this procedure is not necessary. Go to step 2.

2. Start **Computer Management** by going to **Start | Control Panel | Administrative Tools**, and select **Disk Management** on the left tree. If the disk which is to be set as dual configuration shows as **Not Initilized** on the right pane, right-click on the relevant disk to initialize.



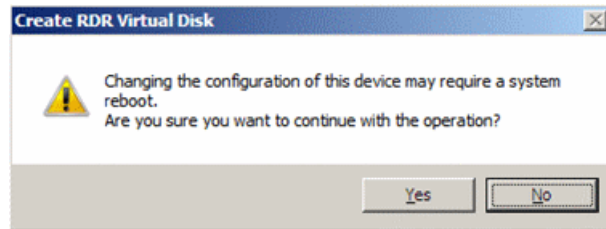
IMPORTANT: A popup window prompting to reboot appears when you insert or initialize the disk; however, you do not need to reboot the system. Select **Restart Later** to exit the popup window

3. Go to **Start | All Programs | RDR | RDR Utility** and start the RDR Utility. On the left pane of the RDR Utility, right-click on the Slot 1 disk of PCI Module 10 and choose **Create RDR VirtualDisk**.

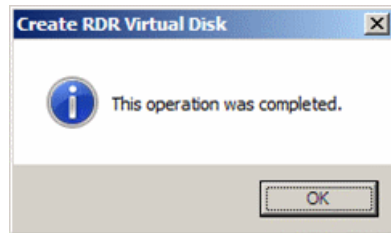


NOTE: Depending on the disk status, it takes time to set RDR, and the RDR Utility may stop for a few minutes. This is not an error. Allow it to finish.

4. When the dialog box shown below comes up asking you to do a system reboot, click **Yes**.



5. Click **OK** when the operation complete dialog box appears.

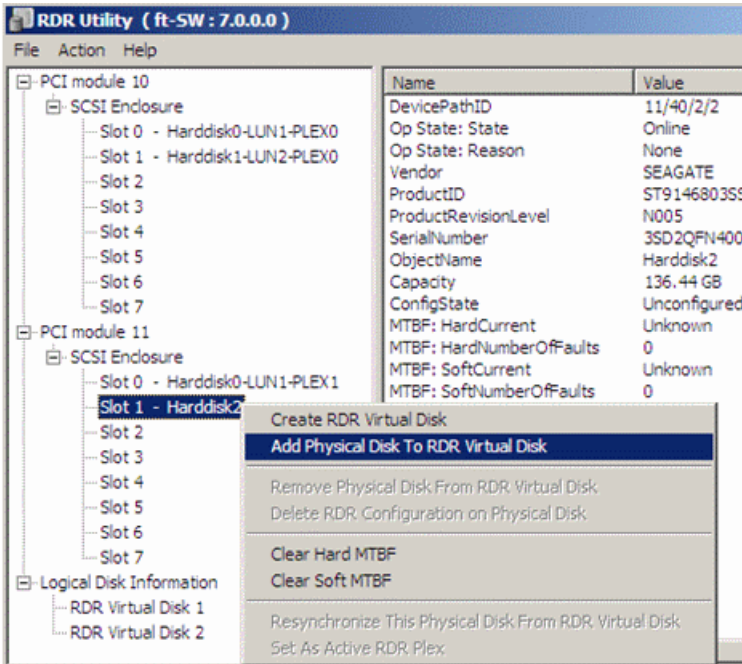


NOTE: *If you set RDR on a disk that includes a system partition disabled to mount, a system restart pop-up message appears. The system reboots after 2 minutes after clicking **Yes**. After rebooting, perform the procedures starting with step 6 below.*

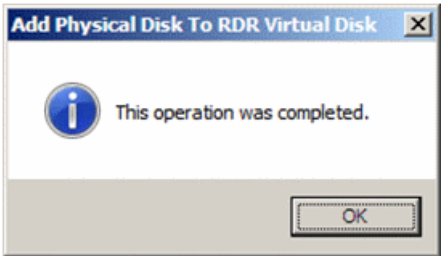
6. Insert the disk to perform dual configuration into the Slot 1 of PCI module 11, and perform the procedure in step 2. If a HDD is already mounted, this procedure is not necessary. Perform the procedure in step 2 only.

NOTE: *Be sure to use new hard drive disks or physically formatted ones with the same capacity as the synchronization source disk. If you use other disks, dual configuration will not work properly.*

- 7. Right-click on Slot 1 of the PCI module 11 from the left pane of the RDR Utility, then click **Add Physical Disk To RDR Virtual Disk**.

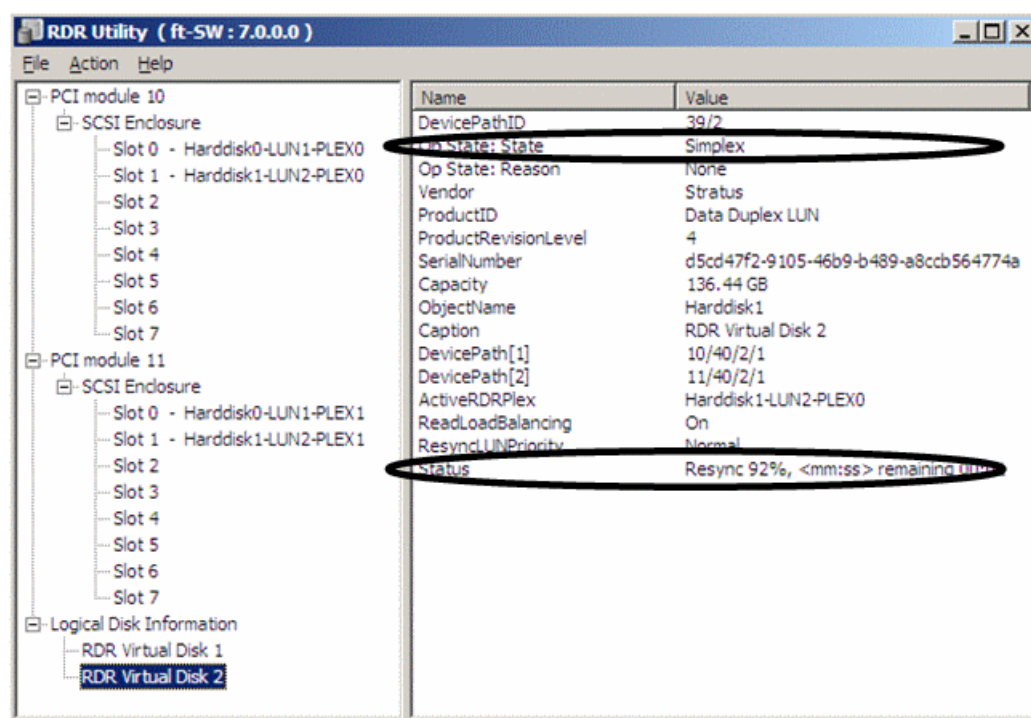


- 8. Click **OK** in the dialog box that appears.



9. Verify that disk synchronization has started and the status of the DISK ACCESS LED and RDR Utility display changes as shown in the table and the RDR Utility screen below.

During synchronization	DISK ACCESS LED	RDR Utility	
		Condition	Status
Synchronization source disk	Green and blinking	Online	N/A
Synchronization destination disk	Amber and blinking	Syncing	N/A
RDR Virtual disk	N/A	Simplex	Resync X % (x = 0, 4, 8, ...96)

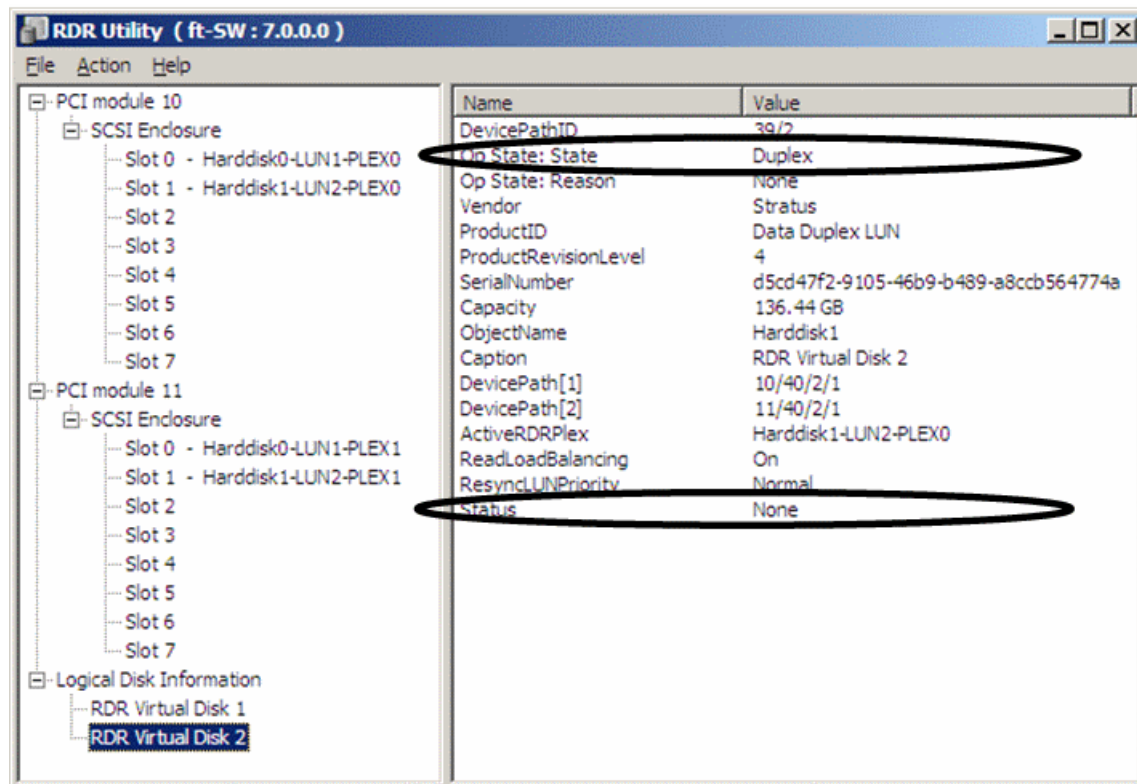


IMPORTANT:

- The time required for synchronization varies depending on the partition size on the disk. For a 73GB partition, it takes about 80 minutes. When the partition does not exist on the disk, the synchronization is completed immediately after the RDR is set, and Op State: State changes to Duplex. However, when the dynamic disk is used, the time required for synchronization depends on the disk size regardless of whether or not the partition exists on the disk.
- Setting dual disk configuration may not complete if you reboot the system during the synchronization. Do not reboot the system before the synchronization process completes.
- If the system stops by improper termination of Windows such as pressing the **Power** button, the entire synchronized disk area will be resynchronized after rebooting the system.

Verify that disk synchronization is complete by noting that the status of the DISK ACCESS LED and RDR Utility display change as described in the table and RDR Utility screen below.

Synchronization completed	Disk Access LED	RDR Utility	
		Condition	Status
Synchronization source disk	Green and blinking	Online	N/A
Synchronization destination disk	Green and blinking	Online	N/A
RDR Virtual disk	N/A	Duplex	None



10. Do this procedure for all hard disk drives.

Re-synchronize physical disk from RDR virtual disk

Disks whose synchronization by RDR is cancelled for reasons including a failure can be re-synchronized using the following procedure:

1. Start the RDR Utility and right-click a target disk in the left pane and click **Resynchronize This Physical Disk From RDR Virtual Disk**.
2. In the **Resynchronize This Physical Disk From RDR Virtual Disk** dialog box, click **OK**.

3. Confirm that the re-synchronization starts and the status of disks changes as shown below:

Resynchronizing	DISK ACCESS LED	RDR Utility	
		Op State: State	Status
Source disk	Amber (Blinking)	Simplex	N/A
Destination disk	Amber (Blinking)	Syncing	N/A
RDR Virtual disk	N/A	Simplex	Resync x percent (x=0, 4, 8, ..., 96)

Synchronization completed	DISK ACCESS LED	RDR Utility	
		Op State: State	Status
Source disk	Green (blinking)	Duplex	N/A
Destination disk	Green (blinking)	Duplex	N/A
RDR Virtual disk	N/A	Duplex	None

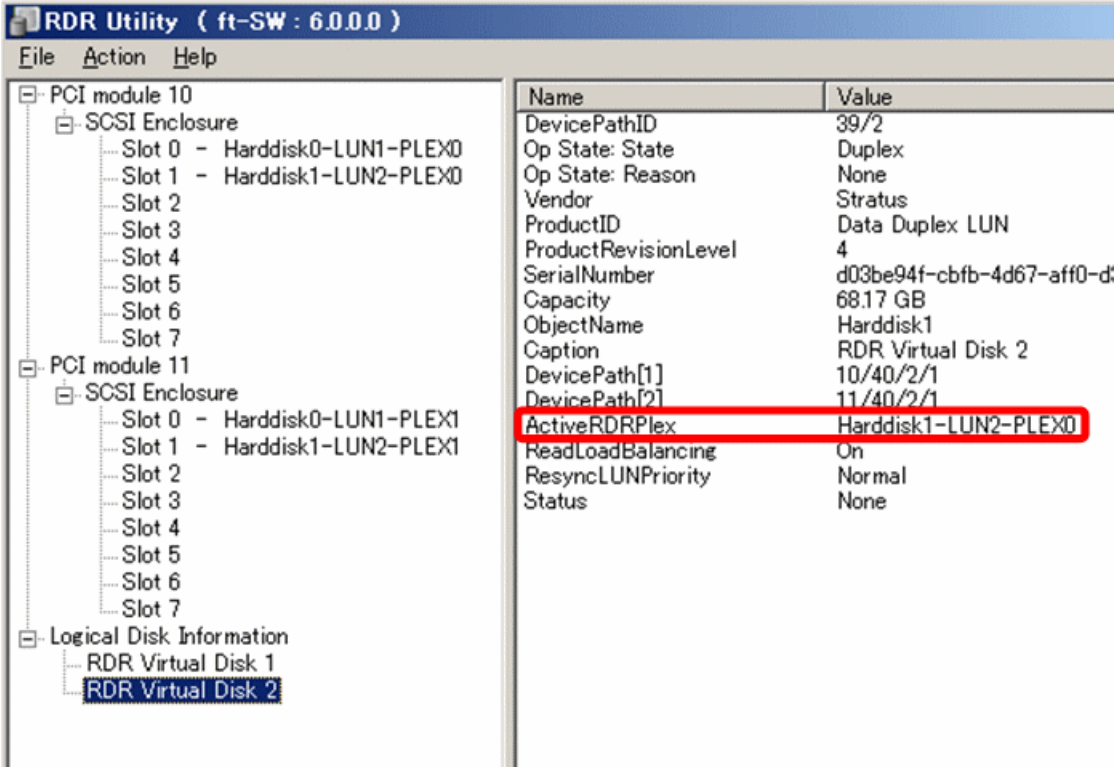
Set as active RDR plex

A physical disk can be set as “Active RDR Plex” by a command.

Active RDR Plex is the disk on which the data reading process is performed when Load Balancing of RDR Virtual Disk is off.

1. Start the RDR Utility and right-click a target disk in the left pane and click **Set As Active RDR Disk**.

2. In the **Set As Active RDR Plex** dialog box, click **OK**.
- Active RDR Plex can be viewed from **Active RDR Plex** of the RDR Virtual Disk. (In the image below, the disk in slot 1 of PCI module 10 is set to Active RDR Plex among physical disks constructing RDR Virtual Disk 2.)



Verify RDR virtual disk

- To check whether the synchronization by RDR has been performed, use the following steps:
1. Start the RDR Utility and right-click on **RDR Virtual Disk x** in the left pane and click **Verify RDR Virtual Disk**.
 2. In the **Verify RDR Virtual Disk** dialog box, click **OK**. The progress of verification can be viewed using the RDR Utility.

	Verifying	Verification completed
Status of RDR Virutal Disk x	Verify x percent (x=0, 4, 8, ..., None 96)	

Tips:

- The verification process is automatically performed every week.
- The time required for verification depends on the disk size and load. For a 73GB disk, it takes about 90 minutes.

Stop verifying RDR virtual disk

Verification of RDR virtual disk in progress can be stopped with the procedure below:

1. Start the RDR Utility and right-click **RDR Virtual Disk x** in the left pane and click **Stop Verify RDR Virtual Disk**.
2. In the **Stop Verify RDR Virtual Disk** dialog box, click **OK**.

Set resync priority

The priority of synchronization by RDR can be specified. By changing the priority, the I/O load during synchronization can be reduced using the following steps:

1. Start the RDR Utility and right-click on **RDR Virtual Disk x** in the left pane then click **Set Resync Priority**.
2. When a dialog box appears, select **Low**, **Normal**, or **High** (the default is **Normal**) and click **OK**.
3. In the **Set Resync Priority** dialog box, click **OK**.

Set LUN load balancing

Load balancing can be specified as on or off.

When the load balancing is on (default), the read process is performed alternately from two physical disks forming the RDR Virtual Disk to improve performance. When it is off, the read process is performed from the physical disk specified as Active RDR Plex. To set the load balancing on or off, use the following procedure.

1. Start the RDR Utility, right-click on **RDR Virtual Disk x** in the left pane to change the priority and click **Set RDR LUN Load Balancing**.
2. When a dialog box appears, select **On** or **Off** (the default is **On**) and click **OK**.
3. In the **Set RDR LUN Load Balancing** dialog box, click **OK**.

Build dynamic disk

Use Windows utilities and build a Dynamic disk with all the disks except for drive 0.

1. From the Windows desktop, right-click **My Computer** and select **Manage**.
2. Change the CD ROM drive letter to **F:**.
3. Select **Disk Management**.
4. Right-click on one of the unallocated **Disk 1**.
5. Select **New Striped Volume**.
6. Click **Next**.
7. Add disk **2 – 4** to the group in the Selected column.
8. Click **Next**.
9. Assign drive letter **D**.
10. Set file system to **NTFS**.
11. Set Allocation unit size to **default**.

12. Set Volume label to **Data**.
13. Verify that **Perform a quick format** is selected.
14. Click **Finish**.

Duplex LAN configuration overview

The FT server duplex LAN is configured at the factory with Adapter Fault Tolerance (AFT) functionality. This is correct, even for an FT server on a system with multiple control networks, such as a redundant K2 SAN. Since the FT server provides its own "redundancy" it does not participate in the K2 SAN's redundant control networks. AFT is a feature that places more than one LAN controller on the same LAN (same segment), and automatically switches the process of the primary controller to the backup controller when any trouble occurred on the primary.

Instructions are given in this manual for doing the duplex LAN configuration in the unlikely event it is required at the customer site. If you create a system-specific recovery disk image, all server configuration can be restored after a failure.

Set duplex LAN configuration

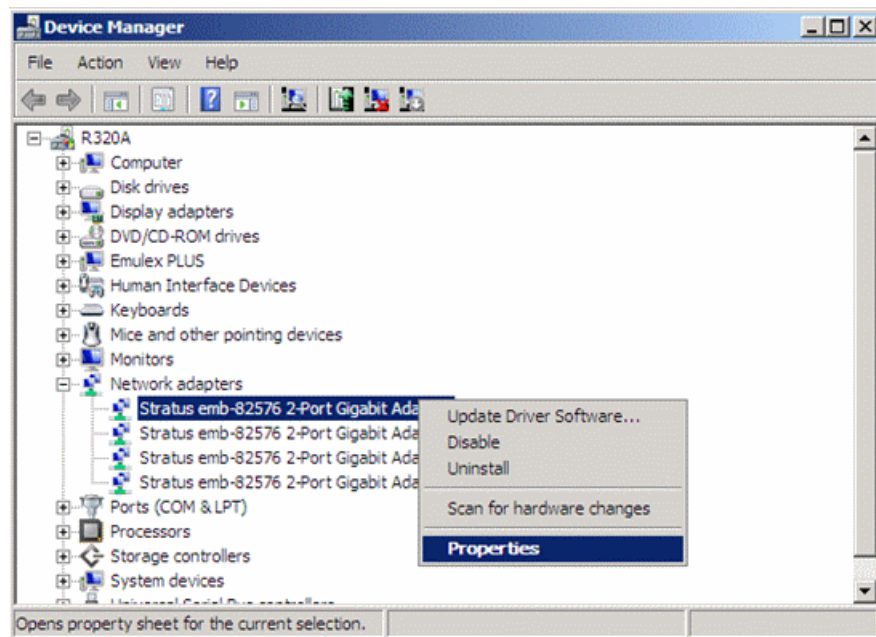
The duplex LAN configuration for the FT server has been done at the factory. There is no need to redo this configuration after installing your server. However, the procedure is provided here in case it is needed on the customer site.

To configure the duplex LAN, log on to the FT server using the factory default login, user **Administrator** and password, or the username and password you have set.

In this task you team network adapters, which correspond to the Ethernet connectors on the CPU/IO module rear panels. One team includes the top module's left-hand connector and the bottom module's left-hand connector. The other team includes the top module's right-hand connector and the bottom module's right-hand connector.

1. Start **Device Manager**.

2. Select a target Network Adapter. Right-click and select **Properties** from the menu displayed to show the Properties dialog box.



IMPORTANT: The display of Network Adapters may be duplicated as shown below, depending on the status at installation.

- Stratus emb-82576 2-Port Gigabit Adapter
- Stratus emb-82576 2-Port Gigabit Adapter
- Stratus emb-82576 2-Port Gigabit Adapter #2
- Stratus emb-82576 2-Port Gigabit Adapter #2

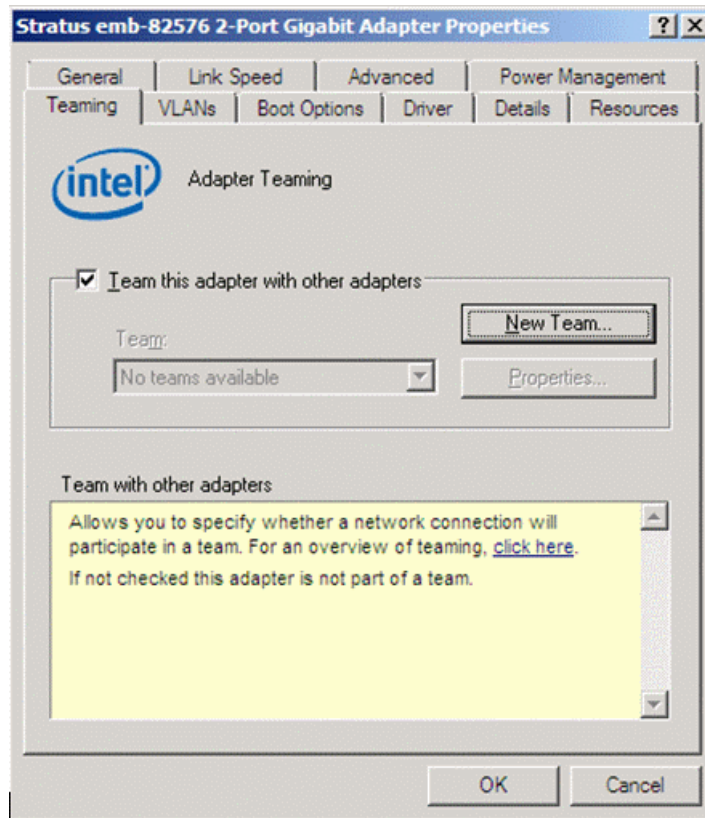
If such a case occurs, perform the following actions:

1. Delete all Network Adaptors from Device Manager.
2. Select **Action Scan for hardware changes**.

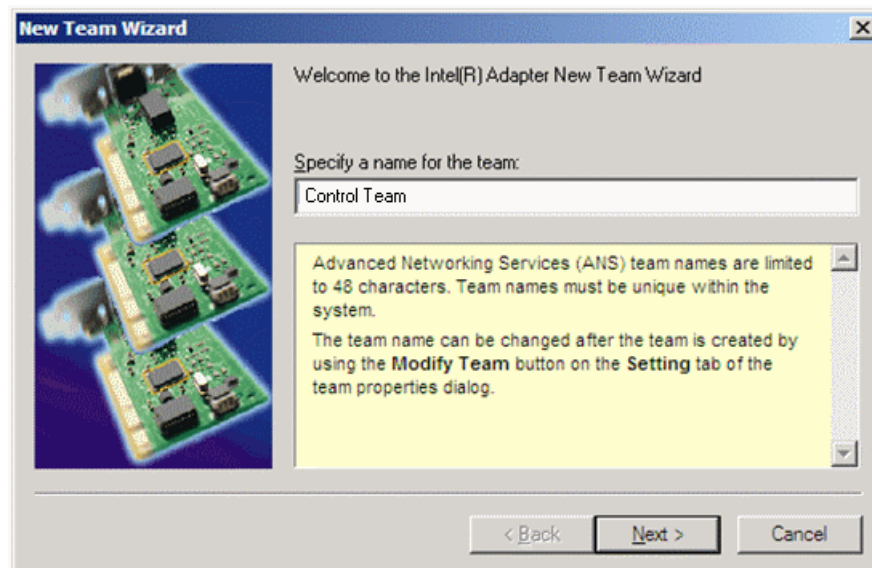
The display will be as follows when the actions are performed properly.

- Stratus emb-82576 2-Port Gigabit Adapter
- Stratus emb-82576 2-Port Gigabit Adapter #2
- Stratus emb-82576 2-Port Gigabit Adapter #3
- Stratus emb-82576 2-Port Gigabit Adapter #4

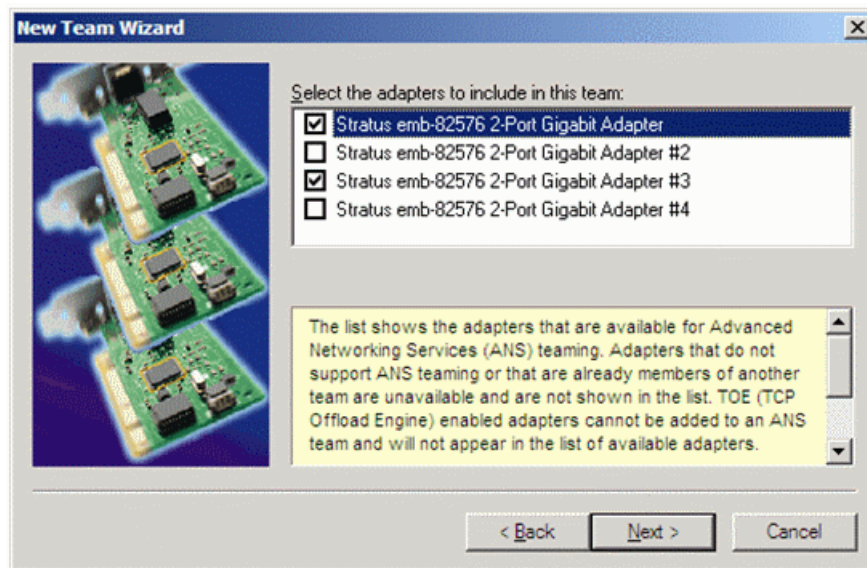
3. Select the **Teaming** tab in the Properties window. Check the **Team with other adapters** button and click **New Team....**



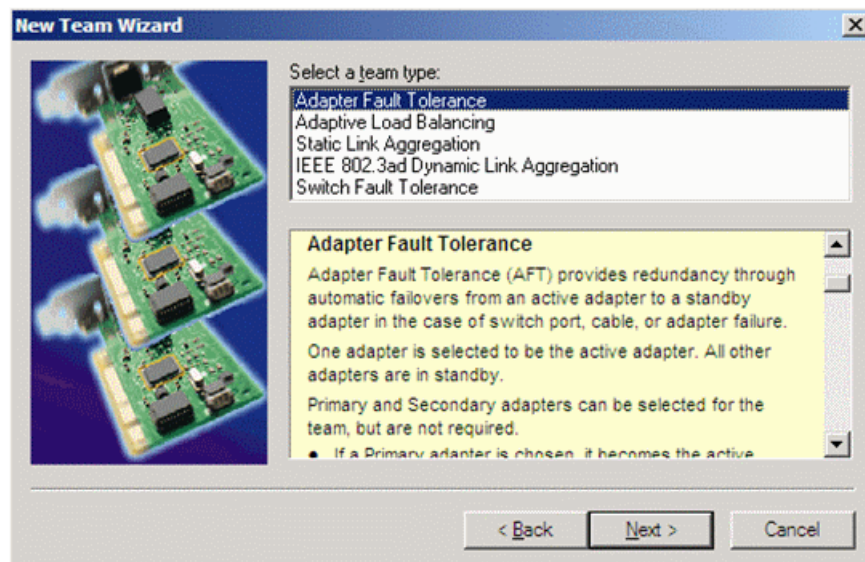
4. Enter team name Control Team and click **Next**.



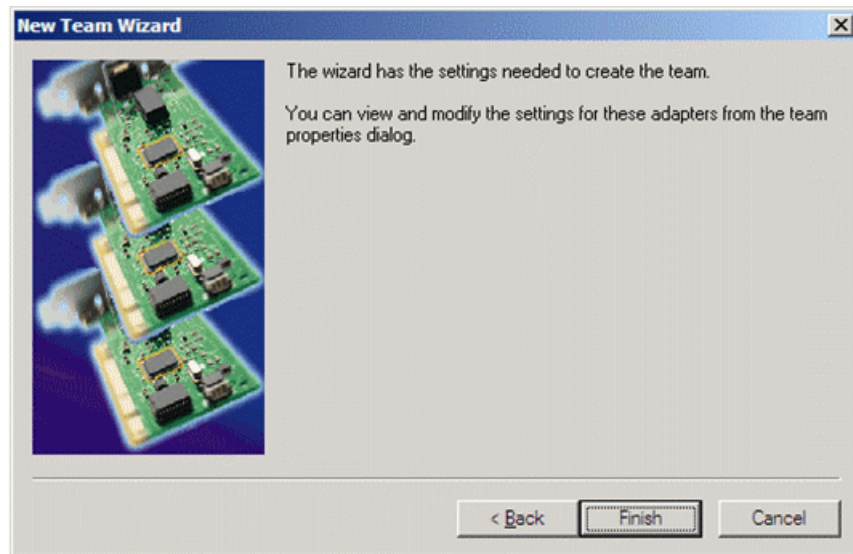
5. Select the adapters that correspond to the two left-hand ports (when facing the rear panel) and click **Next**.



6. Select **Adapter Fault Tolerance** as a team mode. Click **Next**.

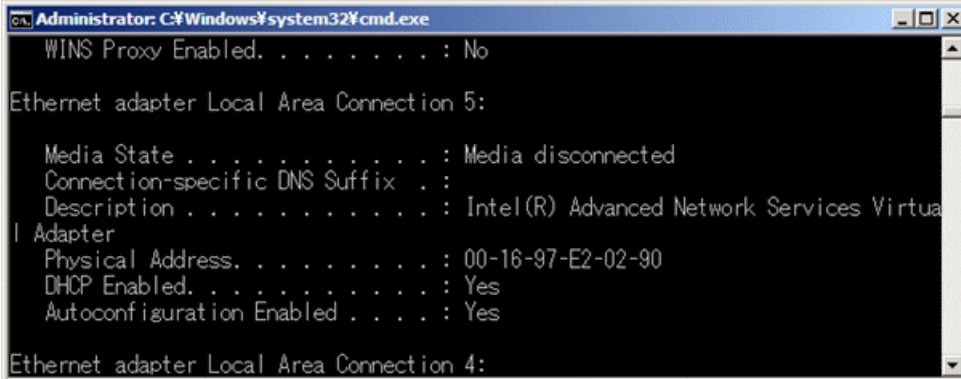


7. Click **Finish**.



8. Open the Modify Team dialog box as follows:
 - a) In **Device Manager | Network Adapters**, right-click **Control Team** and select **Properties**.
The Properties dialog box opens.
 - b) Select the **Settings** tab.
 - c) Click **Modify Team**.
A dialog box opens.
9. On the **Adapters** tab, do the following:
 - a) Select the adapter in the team that corresponds to port the top CPU/IO module, and click **Set Primary**.
 - b) Select the other adapter in the team and click **Set Secondary**.
10. Click **OK** and **OK** to close dialog boxes.
11. Repeat steps to create another team as follows:
 - Name the team **FTP Team**.
 - Team the adapters that correspond to the two right-hand ports (when facing the rear panel) .
 - Make primary and secondary.

12. Start a Command prompt to check the physical MAC address set on ipconfig/all.



```

Administrator: C:\Windows\system32\cmd.exe

WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection 5:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
    Description . . . . . : Intel(R) Advanced Network Services Virtual
    Adapter
    Physical Address. . . . . : 00-16-97-E2-02-90
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes

Ethernet adapter Local Area Connection 4:

```

Name teams

Before beginning this task, make sure of the following:

- Adapters are named
 - The teams are created
1. Open Windows Network Connections.
 2. Select adapter names in the “Device Name” column and rename them as follows:
 - Local Area 5: Control Team
 - Local Area 6: FTP Team

Reorder adapters

Before beginning this task, make sure of the following:

- Teams are created and named
1. Open Windows Network Connections.
 2. Select **Advanced**, then **Advanced Settings...**
 3. On the **Adapters and Bindings** tab, set the **Control Team** to be the first (top-most) connection and the **FTP Team** to be the second connection.
 4. Click **OK** to close and accept the changes.
 5. Close Network Connections.

Servicing the FT Server

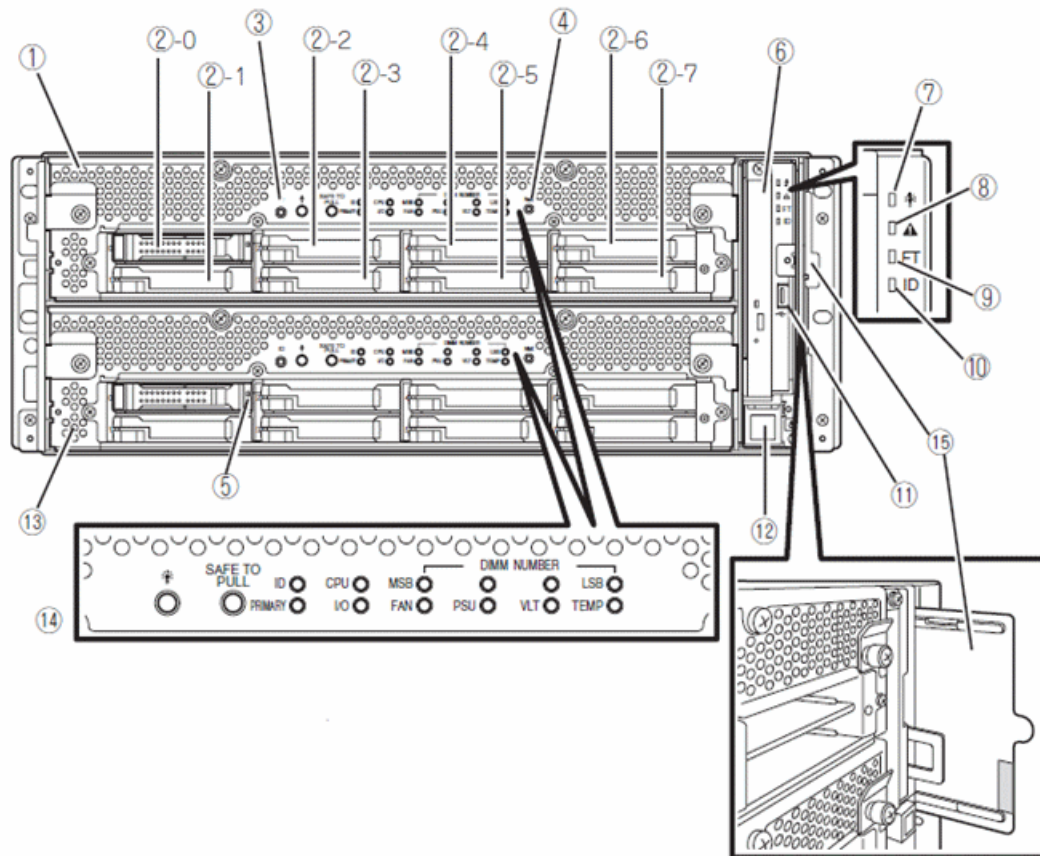
Checking status with LEDs

Use the LED guides in this section to troubleshoot the FT server. All LED indicators are described in detail in this section.

Front status LEDs (bezel removed)

A front view of a fully loaded chassis with two CPU/I/O modules with the front bezel removed is shown below. Numbered pointers indicate the various modules, switches, and LEDs visible when the front bezel is removed.

NOTE: Keep the front bezel installed at all times during normal operation to maintain cooling requirements.



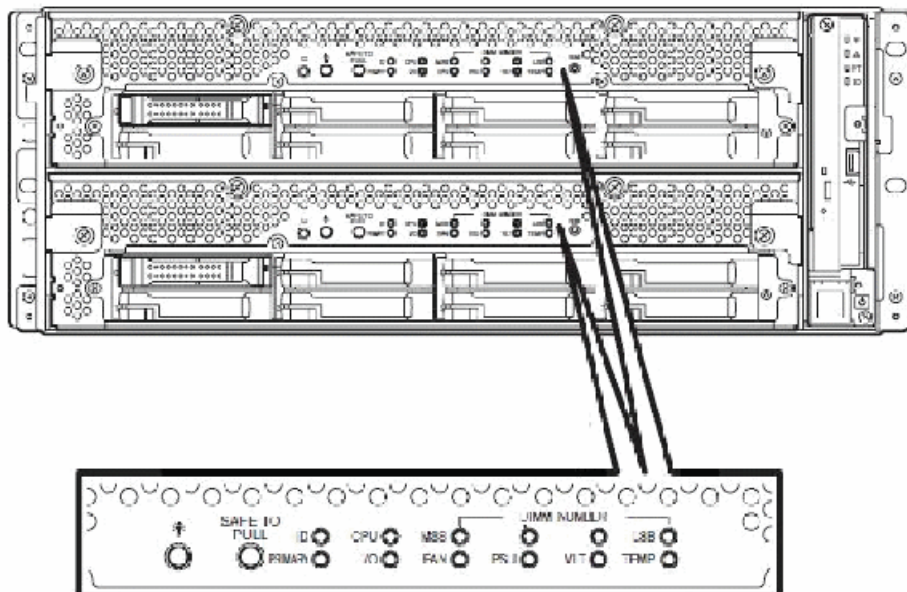
- **(1) CPU/IO module 0:** This is a module with a set of CPU (processor), memory (DIMM), PCI board, cooling fan unit, and hard disk drive components.
- **(2-0, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7) Hard disk drive bays:** These are the bays to mount the hard disk drives. The number after the numbers in parentheses indicates a slot number.
- **(3) UID (Unit ID) switch:** Set this switch to ON/OFF to control the UID LED on the front of the device. When processing the switch once, UID LED lights and it goes off when pressing it again.
- **(4) Dump (NMI) switch:** Not used in this application.
- **(5) Disk access LED:** This LED illuminates/blinks while accessing the installed hard disks.
- **(6) Optical disk drive:** This device is used to read data from the disks such as DVDs and CD-ROMs.
- **(7) System POWER LED:** This LED illuminates green when one of the power supplies of the CPU/IO modules is ON. The LED goes off when both power supplies of the CPU/IO module are OFF.
- **(8) System FAULT LED:** When one of the CPU/IO modules has an error, this amber LED lights. Details can be confirmed by checking EXPRESSSCOPE. The amber LED lights when it cannot identify which one of the CPU/IO modules has an error.

- **(9) System FT LED:** This LED displays the device status. This green LED lights when operating under a duplex condition. The LED goes off if it's not duplex. This green LED also lights when executing an Active Upgrade.
- **(10) System ID LED:** The blue system ID LED lights on the front bezel if pressing UID switch when there are multiple devices installed in one rack. This enables the user to identify the device to be maintained. This blue LED blinks when there are remote device identification requests.
- **(11) USB connector:** Connect a device supporting USB interface.
- **(12) Power switch:** Use this switch to turn ON/OFF the power. When pressing it once, the power will be ON. When pressing it again, the power will be OFF. Forced shut down takes place when pressing it for 4 seconds or longer.
- **(13): CPU/IO module 1:** This is a module with a set of CPU (processor), memory (DIMM), PCI board, cooling fan unit, and hard disk drive components identical to CPU/IO module 0.
- **(14) EXPRESSSCOPE various LEDs (green/amber):** This LED indicates the status of CPU/IO modules.
- **(15) SLIDE-TAG:** A Label where N-Code and Serial number are printed is pasted to this tag.

ExpressScope LEDs

On the front of the FT server with the front bezel removed, the EXPRESSSCOPE LEDs (amber) can be accessed to determine if either CPU/IO module has failures. The LEDs on the upper line correspond to the upper names and the LEDs on the lower line correspond to the lower names.

NOTE: *If any component has failed in a CPU/IO module including DIMMs and the power supply, the entire CPU/IO module is replaced. All hard disk drives should be labeled for slot location, then removed from the faulty unit. When a replacement module is received, the hard disk drives should be replaced into the same slots to maintain the mirrored images.*



Name	Meaning	Possible Cause	Action
Module Power LED	Indicates Power condition of module.		Green: Module DC ON Green blinking: Module DC OFF (AC ON) Off: Module AC OFF
PRIMARY LED	Indicates Primary state of IO Module.		Green: IO part of Module is working on priority. Off: Module is working as Secondary.
Module ID LED	Pushing ID Switch, or demanding ID from remote.		Green: Pushed ID Switch Green Blinking: demanded ID from remote Off: No demand
SAFE TO PULL	Showing condition whether a module can be unmounted or not.		Green: duplexing System can work even if a module is pulled out. Green blinking: Simplexing System can not work if a module is pulled out. Off: Some offline parts exist. System can work even if a module is pulled out.
CPU (CPU part error LED)	Amber LED illuminates when a failure occurs in CPU of CPU/IO module.	Processor failure CPU/IO module failure DIMM failure	Replace CPU/IO module.
I/O (I/O part error LED)	Amber LED illuminates when a failure occurs in I/O of CPU/IO module.	CPU/IO module failure PCI Board failure	Replace CPU/IO module.

Name	Meaning	Possible Cause	Action
VLT (Power error LED)	Amber LED illuminates when electric voltage failure occurs in CPU/IO module.	CPU/IO module failure Power Supply Unit failure	Replace CPU/IO module.
MEM NUMBER (Memory slot error LED)	Amber LED illuminates when a failure occurs on the memory of CPU/IO module.	Four LEDs indicate DIMM Slot number. Target DIMM failure CPU/IO Module failure Processor failure	Replace CPU/IO Module.
PSU (Power Supply Unit error LED)	Amber LED illuminates when failure occurs on the power supply unit of CPU/IO module.	Processor failure CPU/IO module failure	Replace CPU/IO module. The LED turns on if DC power is not provided in spite of power on request.
TEMP (Abnormal temperature LED)	Amber LED illuminates when temperature in CPU/IO module becomes abnormal.	Cooling problem (Fan Failure) Processor placement Processor failure CPU/IO Module failure	At first, confirm whether event log is registered by Temperature sensor. Replace CPU/IO module. There is a possibility of sensor failure.
FAN (FAN error LED)	Amber LED illuminates when failure occurs on the cooling fan of CPU/IO module.	FAN failure CPU/IO Module failure	At first, confirm whether event log is registered by FAN sensor. Is fan working? Is there a clog of module? Replace CPU/IO module. There is a possibility of sensor failure.

LAN LEDs

The LED indicators on the Ethernet LAN connectors are described below.

- **LINK/ACT LED:**

The LINK/ACT LED shows the status of a standard network port. It is green if power is supplied to the main unit and hub and they are connected correctly (LINK). It blinks green while the network port sends or receives data (ACT).

When the LED does not illuminate during LINK, check the condition and connection of network cables. If there is nothing wrong with the cables, a defect is suspected in the network (LAN) controller. In this case, contact Customer Service.

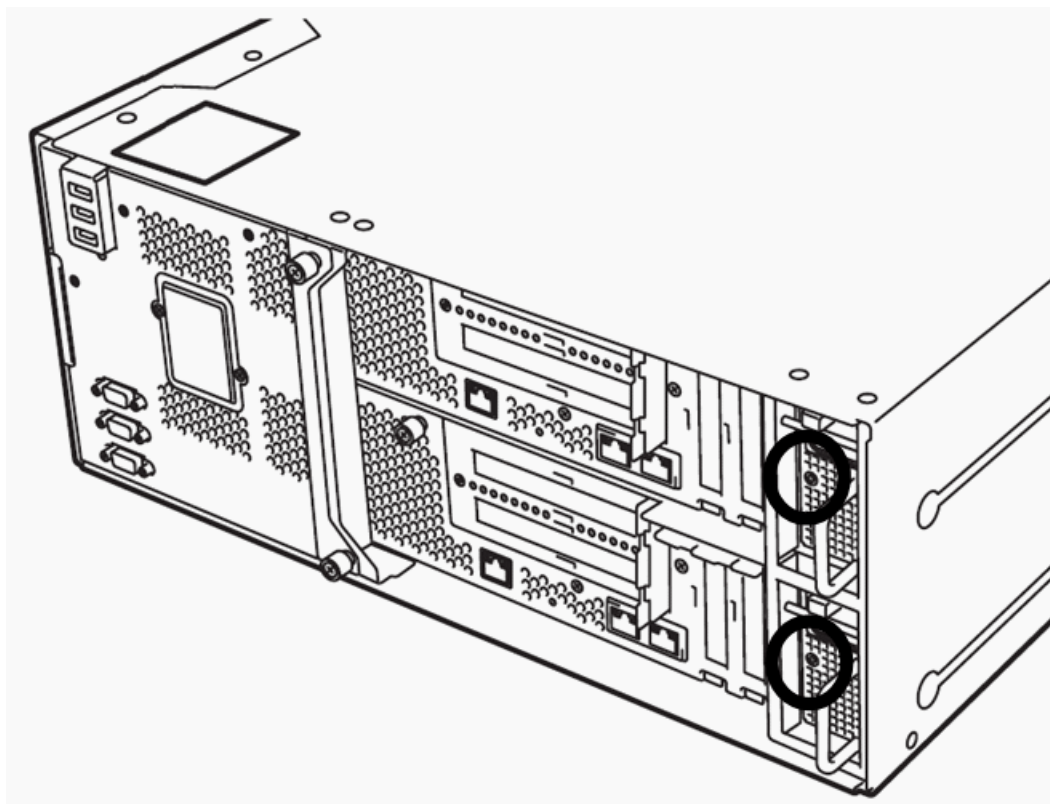
- **Speed LED:**

This LED indicates the network interface of the communication mode used by a network port.

1000BASE-T and 100BASE-TX are the supported LAN port types. When this LED illuminates in amber, the port is operating on 1000BASE-T; when in green, 100BASE-TX; and when not illuminate, 10BASE-T.

Power supply unit LED

When the power supply unit has a failure, the amber LED light will light. There are two power supplies per system.



LED Name	Meaning	Cause	Action
Power Supply Unit LED	When power supply unit has a failure, amber LED will light.	Power Supply Unit CPU/IO module	Replace Power Supply Unit. Replace CPU/IO module.

Diagnostics, logs and error messages

The various diagnostics, logs, and error messages available for the FT server are defined in this section in detail. Use these to aid you in determining what failures have occurred in the system.

BIOS error message

The Virtual LCD Display is the function which displays LCD message information in BMC. They are sent via DianaScope.

In the case of remote operation, each CPU/IO module has a remote connector. It needs to be connected to the CPU/IO module you want to monitor. The Virtual LCD specifications are given in the sections below.

Collecting event logs

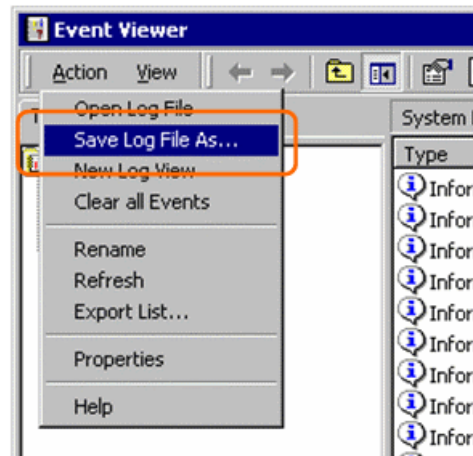
Collect the logs of various events that have occurred in the FT server. It is recommended that you collect all the logs of **Application Log**, **Security Log**, and **System log** using the following procedure.

IMPORTANT: If a STOP error or system error has occurred or the system has stalled, restart the system, and then start collecting event logs.

1. Click [Start | Settings | Control Panel | Administrative Tools | Event Viewer].
2. Select the type of the log to be collected.

The **Application Log** contains events related to the applications that were active at occurrence of the events. The **Security Log** contains security-related events. The **System Log** contains events that occurred in system components of Windows Server 2003, Enterprise Edition.

- Click **Save Log File As...** in the **Action** menu.



- Enter the name of the target archive log file in the **File name** box.
- Select the format of the target log file from the **Save as type** list box, and click **OK**.

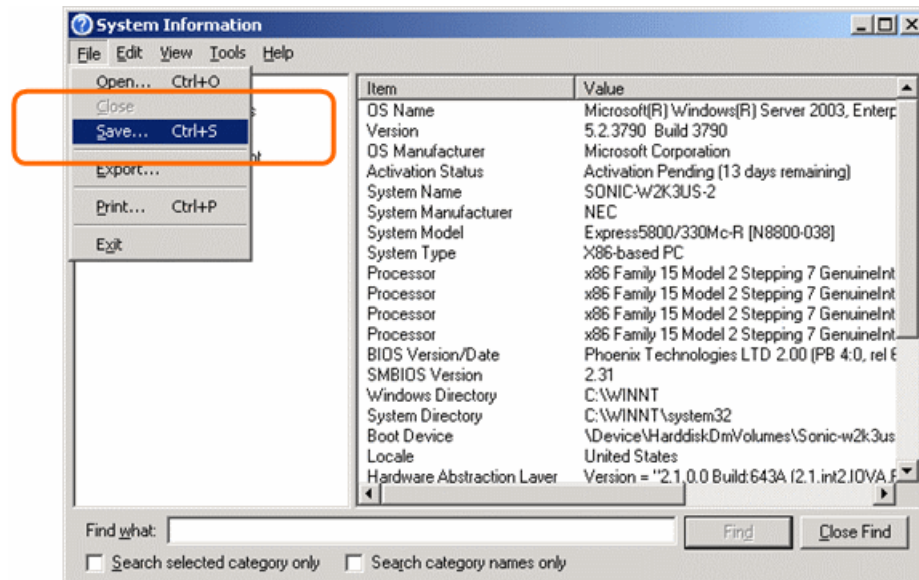
Collecting configuration logs

Collect information such as the hardware configuration and internal setting information for the FT server.

Important: *If a STOP error or system error occurs or the system stalls, restart the system, and then start the procedure.*

:

- Click **Start | All Programs | Accessories | System Tools | System Information**.
- Select **Save...** from the File menu.



- Enter the name of the target file in the **File name** box.
- Click **Save**.

Collecting diagnostic information with Dr. Watson

Collect diagnostic information related to application errors by using Dr. Watson. You can designate any destination to save diagnostic information.

For details, see help information. Click **Start | Run...**, execute **! drwtsn32.exe**, and click **Help** in the **Dr. Watson for Windows** dialog box.

Backup and recovery strategies

On the FT server, there are three partitions to support backup and recovery strategies as follows:

- The C: drive is for the Windows operating system and applications.
- The D: drive is for a database, such as the GV STRATUS system database. This allows you to restore the Windows operating system on the C: drive, yet keep the files on the D: drive intact. Typically the database is backed up and recovered with database-specific processes, rather than with a disk image.
- The E: drive is for storing a system image of the other partitions. From the E: drive you can restore images to the C: and D: drives.

When you receive a FT server from the factory, the machine has a system-specific image on the E: drive. For the highest degree of safety, you should copy this image to a secure location that is not on the FT device itself.

You receive a recovery CD with your server. This recovery CD does not contain a disk image. Rather, the recovery CD is bootable and contains the Acronis True Image software necessary to create and restore a disk image.

After your server is installed, configured, and running in your system environment, you should create new recovery disk images for the machine to capture settings changed from default. These “first birthday” images are the baseline recovery image for the machine in its life in your facility. You should likewise create new recovery disk images after completing any process that changes system software or data, such as a software upgrade. In this way you retain the ability to restore to a recent “last known good” state.

Identifying the FT Server model

FT server platform types are as following:

- Type I (NEC Draco): Released early 2012. Requires Acronis 8162 for recovery disk image process.
 - Type II (NEC Cygnus): Released mid-2013. Requires Acronis 11.5 for recovery disk image process.
1. On the rear panel, below the PCI card slots, locate the equipment label.
 2. Interpret the model number on the label as follows:
 - R320b-M4 = Type I
 - R320c-M4 = Type II

Acronis 8162: Creating a recovery disk image for storing on E: Type I

Do the following at the local server to create a disk image of the C: partition and the D: partition and store the image file on the E: partition:

1. Disconnect the AC power cabling from the bottom CPU/IO module.
2. Perform the steps in this procedure on the top CPU/IO module.
3. Make sure that media access is stopped and that the system on which you are working is not being used.
4. Startup and in BIOS setup disable OS Boot Monitoring.
Refer to related topics in this Topic Library.
5. If you have not already done so, connect keyboard, monitor, and mouse.
6. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.
If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.
The system boots from the Recovery CD.
The Acronis program loads.
7. At the startup screen, select **True Image Server OEM (Full Version)**.
The Acronis main window appears.
8. In the Acronis main window, click **Backup**.
The Create Backup Wizard opens.
9. On the Welcome page, click **Next**.
10. On the Partitions Selection page, do the following:
 - a) Select the **(C:)** and the **(D:)** partitions and then click **Next**.
11. On the Backup Archive Location page, do the following:
 - a) In the tree view select the **Backup (E:)** partition and enter the name of the image file you are creating.
Create the file name using the machine hostname and the date. Name the file with the .tib extension.
For example, if the hostname is MySystem1, in the File name field you enter
`E:\MySystem1_20121027.tib`.
 - b) Click **Next**.
12. On the Backup Options page, do not change any settings. Click **Next**.
13. On the Archive Comment page, if desired, enter image comments such as the date, time, and software versions contained in the image you are creating. Click **Next**.
14. On the "...ready to proceed..." page, do the following:
 - a) Verify that you are creating images from the C: and D: partitions and writing to the E: partition, then click **Proceed**.
15. On the Operation Progress page, observe the progress report.

16. When a message appears indicating a successful backup, click **OK**.
17. Click **Operations | Exit** to exit the Acronis True Image program.
The machine restarts automatically.
18. Remove the recovery media while the machine is shutting down.
19. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
20. On the bottom CPU/IO module, connect AC power cabling. The module starts up.
21. Restart and in BIOS setup enable OS Boot Monitoring.
Refer to related topics in this Topic Library.

Related Topics

[Setting OS Boot Monitoring in BIOS](#) on page 1359

Acronis 11.5: Creating a recovery disk image for storing on E: Type II

This task applies to the Type II FT Server model. Do the following at the local server to create a disk image of the C: partition and the D: partition and store the image file on the E: partition:

1. Disconnect the AC power cabling from the bottom CPU/IO module.
2. Perform the steps in this procedure on the top CPU/IO module.
3. Make sure that media access is stopped and that the system on which you are working is not being used.
4. Startup and in BIOS setup disable OS Boot Monitoring.
Refer to related topics in this Topic Library.

5. Manage connections as follows:

- a) Disconnect the mouse from the USB port, if it is currently connected.

NOTE: A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.

- b) If not already connected, connect keyboard and monitor.

6. Do the following:

- a) Insert the Recovery CD.
- b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

7. On the Acronis Rescue Media page, do the following:
 - a) Use the keyboard arrow keys to select **Acronis Backup and Recovery 11.5 (64-bit...)** and then press **Enter**.
 - b) Wait while Acronis fully loads.

This can take a few minutes. When loaded, the Acronis Backup and Recovery page opens and displays a mouse cursor.
 - c) Connect the mouse to the USB port.

NOTE: A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.
8. On the Acronis Backup and Recovery page, select **Back up now**.

The Back up now page opens.
9. On the Back up now page, under What to back up, select **Item to back up**.

The Select item to back up dialog box opens.
10. On the Select item to back up dialog box, do the following:
 - a) Under Disk 1 select **C** and **D**. Clear other check boxes.
 - b) Click **OK**.

The Select item to back up dialog box closes.
11. On the Back up now page, under Where to back up, select **Location**.

The Select location back up dialog box opens.
12. On the Select location back up dialog box, do the following:
 - a) Expand the tree-view **Local folders** node and select **E:**.
 - b) Enter a name for your backup.
 - c) Click **OK**.

The Select location back up dialog box closes.
13. On the Back up now page, under How to back up, do the following:
 - a) Set Backup type to **Full**.
 - b) This is recommended for your first backup. For subsequent backups, you can optionally set this to Incremental or Differential.
 - c) Set Validation to **Validate a backup as soon as it is created**.
14. On the Back up now page, click **OK**.

The backup begins and the Backup Details page opens.
15. On the Backup Details page, select the **Progress** tab to view the progress.
16. Verify when the data is successfully backed up.
17. Close all Acronis pages and the Acronis main window.

The machine restarts automatically.
18. Remove the recovery media while the machine is shutting down.
19. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
20. On the bottom CPU/IO module, connect AC power cabling. The module starts up.

21. Restart and in BIOS setup enable OS Boot Monitoring.

Refer to related topics in this Topic Library.

Related Topics

[Setting OS Boot Monitoring in BIOS](#) on page 1359

Acronis 8162: Restoring from a system-specific recovery disk image on E: Type I

Use this task to restore a server using an image made from that particular server. If restoring from a generic factory default image, use the appropriate task.

1. Disconnect the AC power cabling from the bottom CPU/IO module.
2. Perform the steps in this procedure on the top CPU/IO module.
3. Make sure that media access is stopped and that the system on which you are working is not being used.
4. Startup and in BIOS setup disable OS Boot Monitoring.

Refer to related topics in this Topic Library.

5. If you have not already done so, connect keyboard, monitor, and mouse.
6. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

7. At the startup screen, select **True Image Server OEM (Full Version)**.
The Acronis main window appears.
8. In the Acronis main window, click **Recovery**.
The Restore Data Wizard opens.
9. On the Welcome page, click **Next**.
10. On the Backup Archive Selection page, in the tree view expand the node for the E: partition and select the image file, then click **Next**.
11. On the Restoration Type Selection page, select **Restore disks or partitions** and then click **Next**.
12. On the Partition or Disk to Restore page, select **(C:)** and then click **Next**.
13. On the Restored Partition Location page, select **(C:)** and then click **Next**.
14. On the Restored Partition Type page, leave the selection at **Active** and then click **Next**.
15. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual C: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
16. On the Next Selection page, select **No, I do not** and then click **Next**.
17. On the Restoration Options page, do not make any selections. Click **Next**.

18. On the "...ready to proceed..." page, verify that you are restoring the correct image to the correct location. Click **Proceed**.
19. On the Operation Progress page, observe the progress report.
20. When a message appears indicating a successful recovery, click **OK**.
21. Click **Operations | Exit** to exit the Acronis True Image program.
The machine restarts automatically.
22. Remove the recovery media while the machine is shutting down.
23. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
24. On the bottom CPU/IO module, connect AC power cabling. The module starts up.
25. Restart and in BIOS setup enable OS Boot Monitoring.
Refer to related topics in this Topic Library.

Related Topics

[Setting OS Boot Monitoring in BIOS](#) on page 1359

Acronis 11.5: Restoring from a system-specific recovery disk image on E: Type II

This task applies to the Type II FT Server model. Use this task to restore a server using an image made from that particular server. If restoring from a generic factory default image, use the appropriate task.

1. Disconnect the AC power cabling from the bottom CPU/IO module.
2. Perform the steps in this procedure on the top CPU/IO module.
3. Make sure that media access is stopped and that the system on which you are working is not being used.
4. Startup and in BIOS setup disable OS Boot Monitoring.
Refer to related topics in this Topic Library.

5. Manage connections as follows:

- a) Disconnect the mouse from the USB port, if it is currently connected.

NOTE: A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.

- b) If not already connected, connect keyboard and monitor.

6. Do the following:

- a) Insert the Recovery CD.
- b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

7. On the Acronis Rescue Media page, do the following:
 - a) Use the keyboard arrow keys to select **Acronis Backup and Recovery 11.5 (64-bit...)** and then press **Enter**.
 - b) Wait while Acronis fully loads.
This can take a few minutes. When loaded, the Acronis Backup and Recovery page opens and displays a mouse cursor.
 - c) Connect the mouse to the USB port.

NOTE: *A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.*

8. On the Acronis Backup and Recovery page, select **Recover**.
The Recover Data page opens
9. On the Recover Data page, under What to Recover page, select **Select Data**.
The Data to Recover Selection dialog box opens.
10. On the Data to Recover Selection dialog box, do the following:
 - a) Select **Browse**.
 - b) In the tree view, expand the **Local Folders** node.
 - c) Select the **E** drive.
Even though your backup is on the E drive, it is not yet visible.
 - d) Click **OK**.
On the Archive View tab, your backup name is listed.
11. On the Archive View tab, select your backup.
12. Under Backup contents, do the following:
 - a) Select **C:** and **D:**.
 - b) Click **OK**.
The Data to Recover Selection dialog box closes.
13. On the Recover data page, under Where to recover, verify the following:

Recover to:	Physical machine
	Clear all
Recover 'NTFS (C:)' to...	Properties....Size:.....Letter: C
	Clear Disk 1/NTFS (C:)
Recover 'NTFS (D:)' to...	Properties....Size:.....Letter: D
	Clear Disk 1/NTFS (D:)

14. On the Recover Data page, click **OK**.
The restore process begins.
15. On the My Recovery Details page, select the **Progress** tab to view the progress.
The image loads in approximately 9 minutes.

16. When the data is successfully restored, click **OK**.
17. Close all Acronis pages and the Acronis main window.
The machine restarts automatically.
18. Remove the recovery media while the machine is shutting down.
19. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
20. On the bottom CPU/IO module, connect AC power cabling. The module starts up.
21. Restart and in BIOS setup enable OS Boot Monitoring.
Refer to related topics in this Topic Library.

Related Topics

[*Setting OS Boot Monitoring in BIOS*](#) on page 1359

Restoring a GV STRATUS Core Server on a FT Server platform from a generic image

This is the master task that applies to both Type I and Type II FT Server models. As instructed by the steps in this task, use the appropriate Acronis sub-task specified for the Type I or Type II model.

1. Disconnect network cables.
2. Disconnect power cabling from bottom CPU/IO module.
3. In top CPU/IO module, leave drive 0 in slot, remove all other drives.
4. Provide AC power to top CPU/IO module.
5. Provide access to the disk image file to which you are restoring. For example, connect an external drive containing the image.
6. Startup and in BIOS setup disable OS Boot Monitoring.
Refer to related topics in this Topic Library.
7. Using the Acronis recovery disk image process as appropriate for the FT Server Type I or Type II model, restore the generic disk image to the top CPU/IO module using Acronis.
The process to boot into Acronis takes several minutes.
The restore process takes approximately two hours.
Refer to related topics in this Topic Library.
8. Restart and log in to Windows as Administrator.
9. When prompted, enter Windows operating system product key and activate later.
10. Restart as prompted.
11. Complete items as prompted by the sysprep process, including the following:
 - Time zone
 - Server name
 - Deselect **Automatic Updates**
 - Select **Don't show again at startup**The server restarts.
12. If Server Manager opens, select **Don't show again at startup**.
13. In the top CPU/IO module, insert all drives.
14. In the bottom CPU/IO module, insert all drives.

15. Connect power cabling and start up bottom CPU/IO module.
16. Perform dual disk configuration as follows:
 - a) In the RDR Utility, create the first Virtual disk.
 - b) When prompted to reboot, click **No**.
 - c) Manually reboot the system.Refer to related topics in this Topic Library.
17. Perform system disk dual configuration as follows:
 - a) Right-click on Slot 0 of PCI Module 11 and select **Add Physical Disk To RDR Virtual Disk**.Refer to related topics in this Topic Library.
18. Set resync priority as follows:
 - a) Set Virtual Disk 0 to high priority In the Logical disk section, highlight **RDR Virtual Disk**, right-click and select **Set Resync Priority**, set to **High** and click **OK**.Disk 0 in each chassis blinks rapidly until the initialization is done.
Refer to related topics in this Topic Library.
19. Repeat steps to create Virtual Disks and map to physical disks.
20. Wait until Disk 0 completes the build process.
That takes approximately 3 hours.
21. Use Windows utilities and build a Dynamic disk with all other disks, except for drive 0, using the striped mode rather than the span mode.
Refer to related topics in this Topic Library.
22. Set duplex LAN configuration to team the left NICS in each server and the right NICS in each server.
Refer to related topics in this Topic Library.
23. Name teams Control Team and FTP Team.
Refer to related topics in this Topic Library.
24. Reorder network adapters so the Control Team is first and the FTP Team is second.
Refer to related topics in this Topic Library.
25. Restart and in BIOS setup enable OS Boot Monitoring.
Refer to related topics in this Topic Library.
26. Turn off the FT server firewall
Refer to related topics in this Topic Library.
27. Remove the GVAdmin account from the Deny log on locally list.
Refer to related topics in this Topic Library.
28. Install SiteConfig Discovery Agent.
Refer to related topics in this Topic Library.

29. Install SQL.

Before installing SQL, make sure that you copy the correct *StratusSQLConfigurationFile.ini* file onto the system so that the database is installed on the D:\ partition.

Refer to related topics in this Topic Library.

30. Activate the Windows operating system.

Refer to related topics in this Topic Library.

31. Do any Windows High Priority updates that are not already installed.

32. Install GV STRATUS software.

33. If the FT server has a proxy share, on proxy share security settings make sure the local "Everyone" has read permission.

34. If the FT server has a proxy share, add the internal system account, which by default is GVAdmin, to the local Administrators group and on proxy share security settings give that account full permissions.

Related Topics

[Setting OS Boot Monitoring in BIOS](#) on page 1359

[Acronis 8162: Restoring from the generic recovery disk image Type I](#) on page 1354

[Acronis 11.5: Restoring from the generic recovery disk image Type II](#) on page 1356

[System disk dual configuration procedure](#) on page 1319

[Set resync priority](#) on page 1331

[Build dynamic disk](#) on page 1331

[Set duplex LAN configuration](#) on page 1332

[Name teams](#) on page 1337

[Reorder adapters](#)

[Turn off FT server firewall](#) on page 1359

[Remove GVAdmin account from Deny log on locally list](#) on page 1361

[Installing SQL](#) on page 472

[Installing the Discovery Agent on a GV STRATUS server](#) on page 473

[Activating the Windows operating system](#) on page 474

Acronis 8162: Restoring from the generic recovery disk image Type I

Use this sub-task only as directed by the steps in the master task for restoring from a generic recovery disk image.

This task applies to the Type I FT Server model.

This procedure can be used on a server that needs to be restored to its factory default state. For example, if you neglected to make a first birthday image, you might need to use this procedure. If the image from which you are restoring was made from the specific machine, refer to the appropriate procedure.

NOTE: *This procedure restores the server (both C: and D: partitions) to its factory default condition. Passwords and other site-specific configurations are reset to factory defaults.*

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Disconnect the AC power cabling from the bottom CPU/IO module.

3. Perform the steps in this procedure on the top CPU/IO module.
4. Connect all motherboard NICs to LAN connections.
5. If you have not already done so, connect keyboard, monitor, and mouse.
6. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.
- The system boots from the Recovery CD.

The Acronis program loads.
7. At the startup screen, select **True Image Server OEM (Full Version)**.

The Acronis main window appears.
8. In the Acronis main window, click **Recovery**.

The Restore Data Wizard opens.
9. On the Welcome page, click **Next**.
10. On the Backup Archive Selection page, navigate to and select the image file, then click **Next**.
11. On the Restoration Type Selection page, select **Restore disks or partitions** and then click **Next**.
12. On the Partition or Disk to Restore page, select **(C:)** and then click **Next**.
13. On the Restored Partition Location page, select **(C:)** and then click **Next**.
14. On the Restored Partition Type page, leave the selection at **Active** and then click **Next**.
15. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual C: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
16. On the Next Selection page, select **Yes, I want to restore another partition or hard disk drive** and then click **Next**.
17. On the Partition or Disk to Restore page, select **(D:)** and then click **Next**.
18. On the Restored Partition Location page, select **(D:)** and then click **Next**.

opens.
19. On the Restored Partition Type page, leave the selection at **Primary** and then click **Next**.
20. On the Restored Partition Size page, leave settings at their defaults. The size reported in the upper pane is the size detected of the actual D: partition. This should be the same as that reported in the Partition size field in the middle of the page. Free space before and Free space after should both be reported at 0 bytes. Click **Next**.
21. On the Next Selection page, select **No, I do not** and then click **Next**.
22. On the Restoration Options page, do not make any selections. Click **Next**.
23. On the "...ready to proceed..." page, verify that you are restoring the correct image to the correct location. Click **Proceed**.
24. On the Operation Progress page, observe the progress report.
25. When a message appears indicating a successful recovery, click **OK**.

26. Click **Operations | Exit** to exit the Acronis True Image program.
The machine restarts automatically.
27. Remove the recovery media while the machine is shutting down.
28. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
29. When prompted, enter the machine name.
Make sure the name is identical to the name it previously had.
At first start up after reimage, the system is in Embedded Security Update mode by default.
30. On the bottom CPU/IO module, connect AC power cabling. The module starts up.

Continue with the steps in the master task for restoring from a generic recovery disk image.

Related Topics

[Restoring a GV STRATUS Core Server on a FT Server platform from a generic image](#) on page 459

Acronis 11.5: Restoring from the generic recovery disk image Type II

Use this sub-task only as directed by the steps in the master task for restoring from a generic recovery disk image.

This task applies to the Type II FT Server model.

This task restores a server to its factory default state. For example, if you neglected to make a first birthday image, you might need to use this procedure. If the image from which you are restoring was made from the same, specific machine to which it is being restored, do not use this task.

NOTE: This procedure restores the server (C:, D:, and E: partitions) to its factory default condition. Passwords and other site-specific configurations are reset to factory defaults.

1. Make sure that media access is stopped and that the system on which you are working is not being used.
2. Disconnect the AC power cabling from the bottom CPU/IO module.
3. Perform the steps in this procedure on the top CPU/IO module.
4. Connect all motherboard NICs to LAN connections.
5. Manage connections as follows:
 - a) Disconnect the mouse from the USB port, if it is currently connected.
NOTE: A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.
 - b) If not already connected, connect keyboard and monitor.
6. Do the following:
 - a) Insert the Recovery CD.
 - b) Restart the machine.

If there is a problem restarting, hold the standby button down for five seconds to force a hard shutdown. Then press the standby button again to startup.

The system boots from the Recovery CD.

The Acronis program loads.

7. On the Acronis Rescue Media page, do the following:
 - a) Use the keyboard arrow keys to select **Acronis Backup and Recovery 11.5 (64-bit...)** and then press **Enter**.
 - b) Wait while Acronis fully loads.

This can take a few minutes. When loaded, the Acronis Backup and Recovery page opens and displays a mouse cursor.
 - c) Connect the mouse to the USB port.

NOTE: A problem with Acronis 11.5 on the FT server requires this workaround. The mouse must be temporarily disconnected before booting into Acronis, then reconnected after Acronis fully loads.
8. On the Acronis Backup and Recovery page, select **Recover**.

The Recover Data page opens
9. On the Recover Data page, under What to Recover page, select **Select Data**.

The Data to Recover Selection dialog box opens.
10. On the Data to Recover Selection dialog box, do the following:
 - a) Select **Browse**.
 - b) In the tree view, select the USB drive that contains the generic recovery disk image.

Even though your backup is on the drive, it is not yet visible.
 - c) Click **OK**.

On the Archive View tab, your backup name is listed.
11. On the Archive View tab, select your backup.
12. Under Backup contents, do the following:
 - a) Select **MBR**.
 - b) Select **Basic**.

This selects all drives.
 - c) Click **OK**.

The Data to Recover Selection dialog box closes.

13. On the Recover data page, under Where to recover, select the correct destination partition for each source partition as follows:
 - a) Select **Recover Disk 1 MBR**.
The MBR Destination dialog box opens.
 - b) In the MBR Destination dialog box, select **Disk 1: Seagate SCSI**.
 - c) Click **OK**.
 - d) Select **Recover System Reserved (C:)**.
The Volume Selection dialog box opens.
 - e) In the Volume Selection dialog box, select **Disk 1: Seagate SCSI**.
 - f) Click **OK**.
 - g) Select **Recover NTFS (C:)**.
The Volume Selection dialog box opens.
 - h) In the Volume Selection dialog box, select **Disk 1: Seagate SCSI**.
 - i) Click **OK**.
 - j) Select **Recover NTFS (D:)**.
The Volume Selection dialog box opens.
 - k) In the Volume Selection dialog box, select **Disk 1: Seagate SCSI**.
 - l) Click **OK**.
 14. On the Recover Data page, click **OK**.
The restore process begins.
 15. On the My Recovery Details page, select the **Progress** tab to view the progress.
The image loads in approximately 9 minutes.
 16. When the data is successfully restored, click **OK**.
 17. Close all Acronis pages and the Acronis main window.
The machine restarts automatically.
 18. Remove the recovery media while the machine is shutting down.
 19. Wait until startup processes are complete on the top CPU/IO module. Leave the module running.
 20. When prompted, enter the machine name.
Make sure the name is identical to the name it previously had.
After start up, one or more device discovery windows can open. Allow processes to complete without interference.
At first start up after reimage, the system is in Embedded Security Update mode by default.
 21. On the bottom CPU/IO module, connect AC power cabling. The module starts up.
- Continue with the steps in the master task for restoring from a generic recovery disk image.

Related Topics

[Restoring a GV STRATUS Core Server on a FT Server platform from a generic image](#) on page 459

Setting OS Boot Monitoring in BIOS


Use this task as directed by other processes, such as the disk image recovery, or as instructed by Grass Valley Support.

- When the FT Server is running the Windows Operating System, OS Boot Monitoring must be enabled to support the primary fault tolerant failover behavior in which one CPU/IO module takes the place of the other CPU/IO module.
- When the FT Server is not running the Windows Operating System, such as when running from Acronis during a disk image recovery process, OS Boot Monitoring must be disabled. If enabled, the FT server continually reboots and disrupts the disk image recovery process.

1. Power on one CPU/IO module.

POST will be performed on this CPU/IO module.

2. A message appears at the lower left of the screen (shown below), prompting for startup of the BIOS setup utility SETUP.



Press <F2> to enter SETUP

3. Press **F2** to start the SETUP utility, while the above message is displayed.
4. Select the **Server** tab.
5. Select **Monitoring Configuration** and press **Enter**.
6. Select **OS Boot Monitoring**.
7. Set to Enabled or Disabled, as appropriate.
8. Press **F10** to save and exit.

Turn off FT server firewall

This task applies to the following:

- A GV STRATUS Core server on a FT server platform.

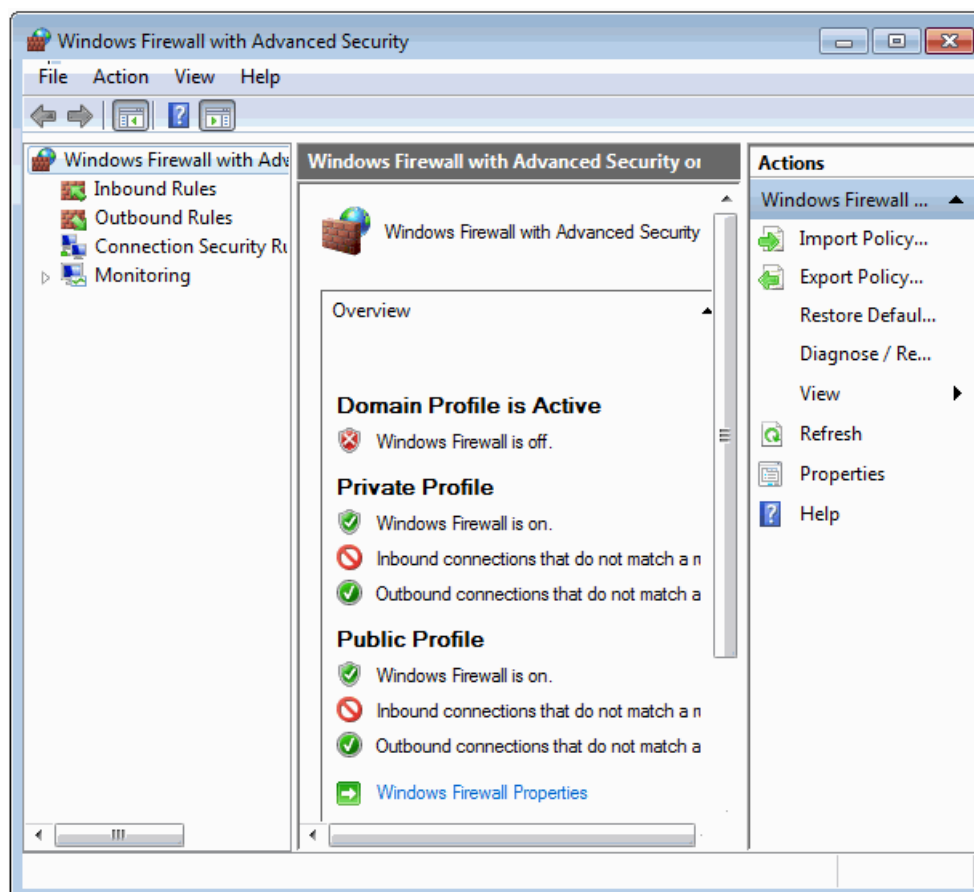
Systems with the Microsoft Windows Server 2008 R2 operating system require special configuration. A server must have its firewall disabled for proper K2 system operation. This includes the Windows firewall that has different profiles for workgroup, domain, etc. You must do the following steps to disable the firewall.

1. Log in to the server with Windows administrator privileges.

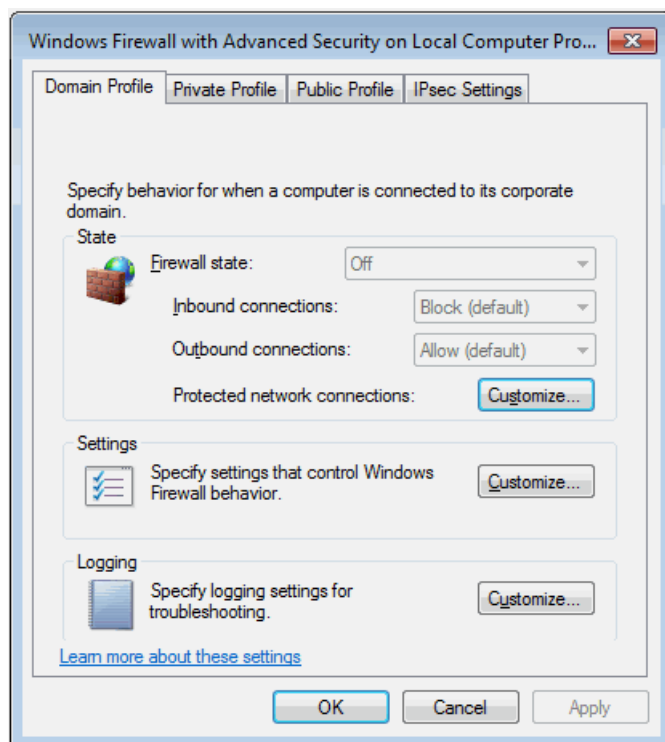
2. From the Windows desktop click **Start** and in the **Search programs and files** box type the following and then press **Enter**.

wf.msc

The Windows Firewall with Advanced Security window opens.



- At the bottom of the Overview section, click **Windows Firewall Properties**.
The Properties dialog box opens.



- On the **Domain Profile** tab, set **Firewall state** to **Off**.
- On the **Private Profile** tab, set **Firewall state** to **Off**.
- On the **Public Profile** tab, set **Firewall state** to **Off**.
- Click **OK** to save settings and close.

Remove GVAdmin account from Deny log on locally list

- From the Windows desktop click **Start | Administrative Tools | Local Security Policy**.
The Local Security Policy window opens.
- In the tree-view select **Local Policies | User Rights Assignment**.
- In the Policy list, double-click **Deny log on locally**.
The Deny log on locally Properties dialog box opens.
- On the **Local Security Setting** tab, select **GVAdmin** and then click **Remove**.
- Click **OK** to save settings and close.

Replacing failed components

The components that can be replaced if a failure occurs in the field, FRUs (Field Replaceable Units), are described in this section. Follow instructions replacement for each type of component as given in this section.

Remove a CPU/IO module

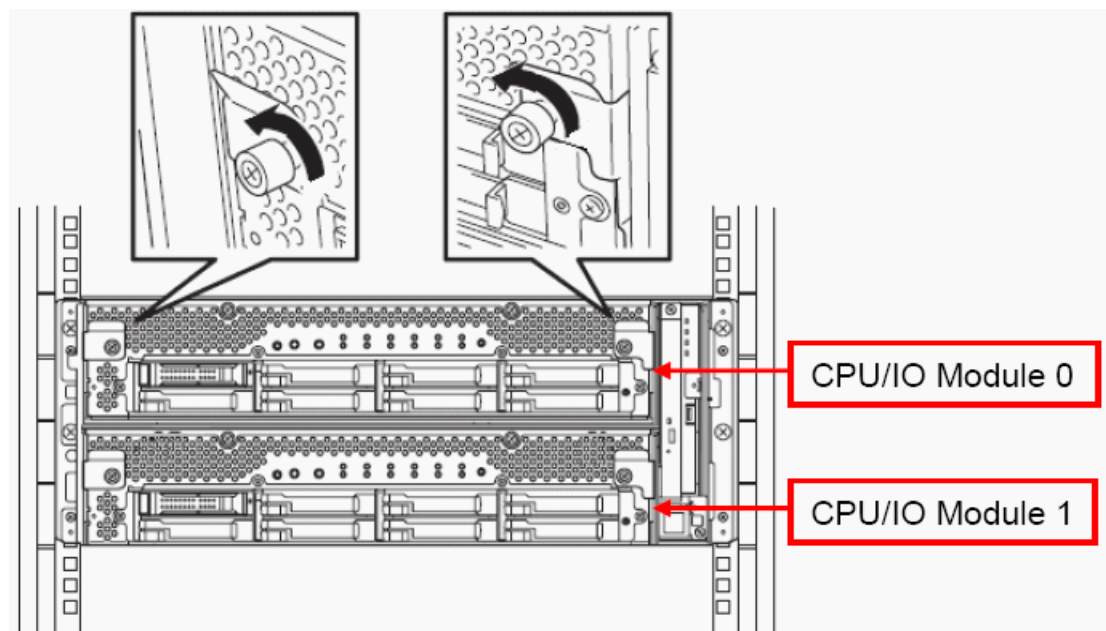
You may remove either CPU/IO module from the rack-mounted enclosure for exchange if required.

Please note the following precautions before doing so:

- Power down the CPU/IO module you are replacing by removing the AC line cord from the rear of that module. When installed, the AC line cords are held in place by stopper bars preventing the removal of the CPU/IO module.
- Have at least two people available to remove a CPU/IO module.
- If you are removing a failed CPU/IO module for exchange, after you have removed the CPU /IO module, you must remove all hard drives in their caddies from the failed module. You must label the hard drives with their drive slot location numbers as you remove them. They must be re-installed in the same hard drive slots when the exchange CPU/IO module is received from the factory. If not, the mirrored hard drives will be out of sync.

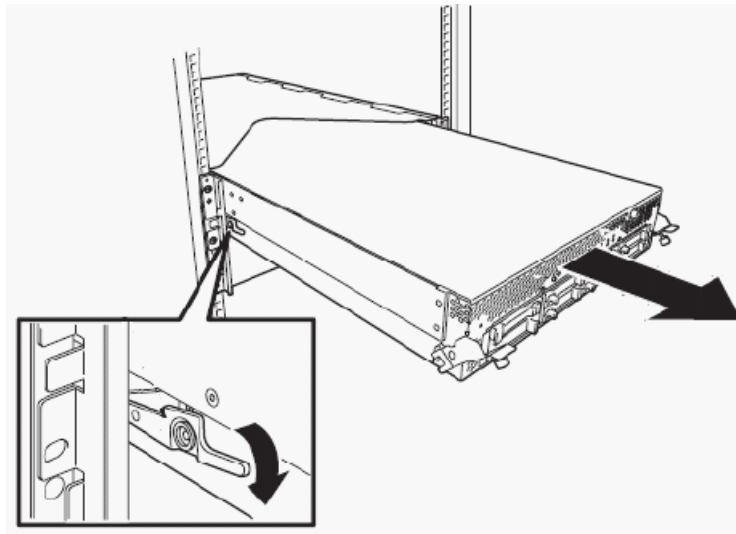
Remove either CPU/IO module as described below.

1. Remove the AC line cord from the module you are removing.
2. Remove the front bezel from the front of the unit by loosening the screws on either side of the bezel.
3. On either side of the module you are removing, loosen the left and right screws to unlock the lock levers holding the module to the sides of the enclosure.



4. Slowly pull out the CPU/IO module until the side lock lever on the left side of the module catches on the lock mechanism.

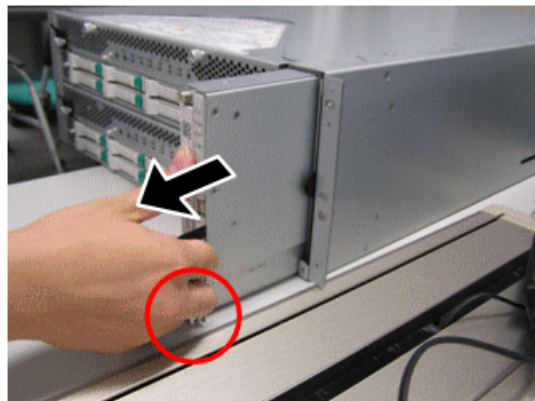
5. Push down on the side lock lever as shown below so it is horizontal and will slide over the lock mechanism, allowing you to pull out the module completely.



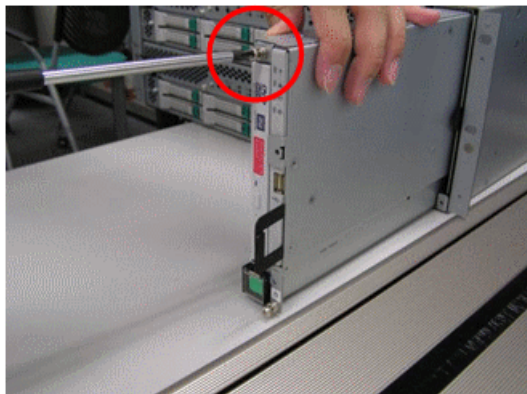
Replacing Optical DVD drive

Use this procedure if you need to replace the optical DVD drive. You may remove this drive while the FT server is powered up.

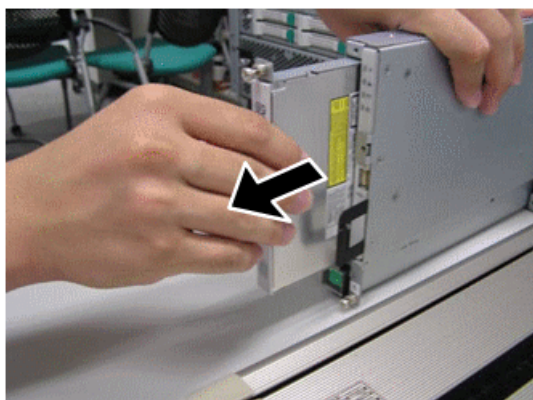
1. Remove the front bezel from the chassis.
2. Remove the entire front unit containing the optical DVD drive by turning the thumb screw on the bottom of the drive unit to the left and pulling out the entire unit.



3. Once the drive unit is free, loosen the top screw holding the DVD drive in the front unit.



4. Pull out the DVD drive.



5. Reverse the steps above to install a replacement DVD drive.

Servicing hard disk drives

The sections given here describe various installation and replacement procedures for the hard disk drives in each CPU/IO module. Refer to the procedure that applies to your condition.

Locating a failed hard drive

Use this procedure to locate a failed hard disk drive. A failed hard disk drive will be indicated by an amber DISK ACCESS LED on the hard drive handle.

To verify a disk failure, do the following:

1. From **Start**, select **All Programs**, **RDR**, and click **RDR Utility** to start the RDR Utility.
2. From the tree on the left pane of the RDR Utility, select each disk and check the values of **MTBF: Current** and **MTBF:NumberOfFaults** in the right pane.

3. Refer to the table below, if either of the values is different from the normal value, the disk has an error.

Property name	Description	Normal value (no error)
MTBF: HardCurrent	Mean time between hardware failures	Unknown
MTBF: SoftCurrent	Mean time between software failures	Unknown

4. If an error is indicated, replace the hard disk drive.

Replacing failed hard drives

Follow the hard disk drive procedures in the order below to replace a failed hard disk drive. The hard disk drive should be replaced with a new device with the server powered on.

1. Locate the failed hard disk. When a hard disk fails, the DISK ACCESS LED on the hard disk drive's handle turns to an amber color.
2. Remove the failed hard drive as described in the related procedure in this manual.
3. Install the new hard drive as described in the related procedure in this manual.
4. Check the following:
 - The hard disk to be installed for replacement must have the same specifications as its mirroring hard disk.
 - Use an unsigned hard disk drive for replacement. To use the signed disk, it is necessary to recover the duplex configuration by referring to Disk Operation in the configuration section of this manual after formatting the disk physically.
 - Before performing physical formatting, change **Option ROM Scan Monitoring** to **Disabled** on **Server Monitoring Configuration** in the BIOS setup utility.
5. Restore the redundant configuration.

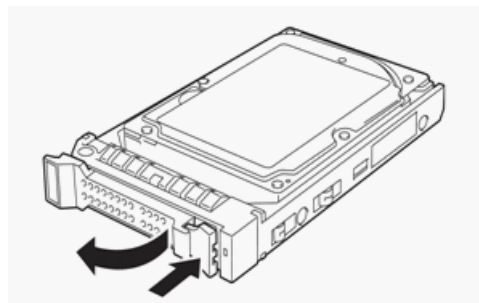
Installing a hard disk drive

Follow the procedure below to install hard disk drives that have been removed from a faulty CPU/IO module and are being installed in the replacement module from the factory.

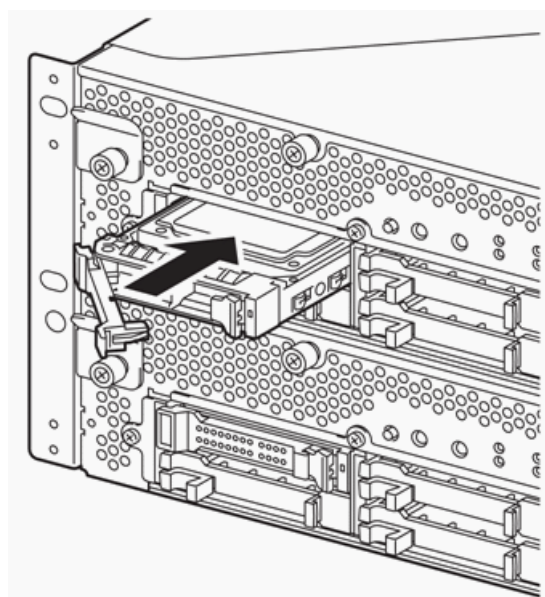
1. Shut down the OS. The system turns off automatically.
2. Remove the front bezel.

NOTE: When installing hard disk drives into a replacement CPU/IO module, be sure to put the hard disk drive into the same slot that you marked on it when you removed it from the failed CPU/IO module.

3. Unlock the hard disk drive.



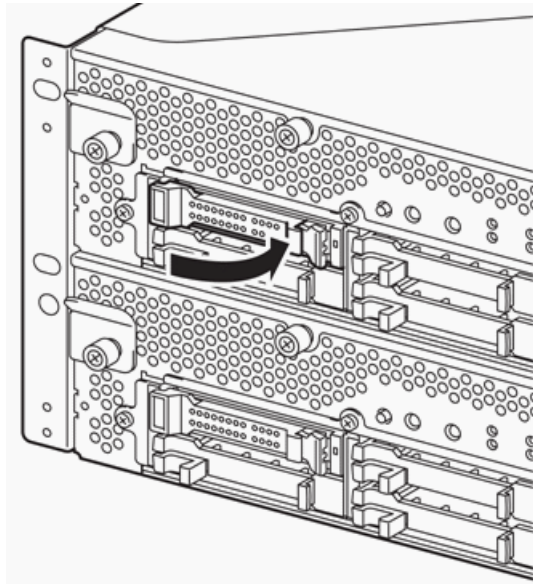
4. Firmly hold the handle of the hard disk drive and insert the drive into the slot.



Follow these tips when installing a hard disk drive. Refer to the illustration above:

- Insert the disk until the lever hook touches the server frame.
- Check the direction of the lever. Insert the hard disk with the lever unlocked.

5. Slowly close the lever. When the lever is locked, you will hear a clicking sound. Check that the hook of the lever is engaged with the frame.



6. Press the POWER switch to power on.
Original drives installed into a replacement CPU/IO module should require no configuration.
7. Install the front bezel.

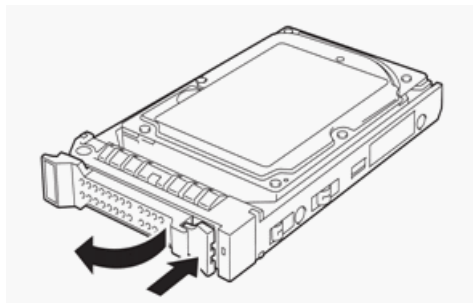
Installing a hard disk drive

Follow the procedure below to install hard disk drives that have been removed from a faulty CPU/IO module and are being installed in the replacement module from the factory.

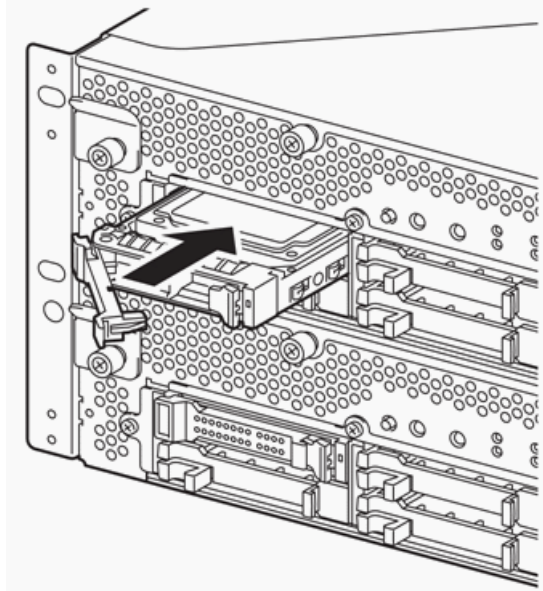
1. Shut down the OS. The system turns off automatically.
2. Remove the front bezel.

NOTE: When installing hard disk drives into a replacement CPU/IO module, be sure to put the hard disk drive into the same slot that you marked on it when you removed it from the failed CPU/IO module.

3. Unlock the hard disk drive.

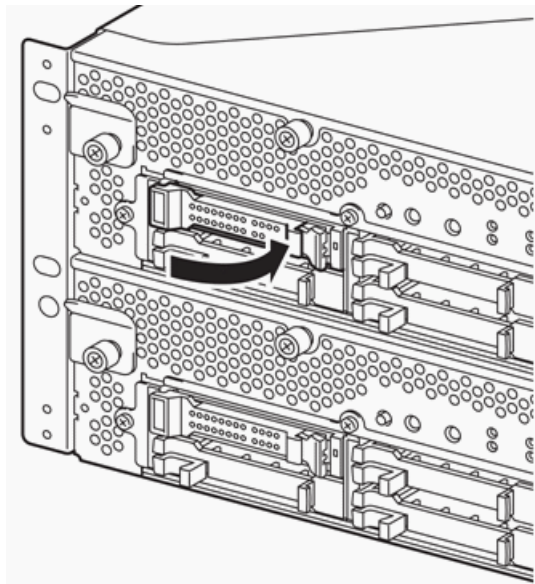


4. Firmly hold the handle of the hard disk drive and insert the drive into the slot.



Follow these tips when installing a hard disk drive. Refer to the illustration above:

- Insert the disk until the lever hook touches the server frame.
 - Check the direction of the lever. Insert the hard disk with the lever unlocked.
5. Slowly close the lever. When the lever is locked, you will hear a clicking sound. Check that the hook of the lever is engaged with the frame.



6. Press the POWER switch to power on.
Original drives installed into a replacement CPU/IO module should require no configuration.
7. Install the front bezel.

Specifications

Storage device specifications

The FT server storage specifications are shown in the tables below:

Hard Disk Drives	Type I and Type II Specification
Type	2.5 inch HDD (SAS 4 8TB, 5 x 600Gbs)
Capacity (maximum)	600GB x 5 in each CPU/IO module. Note that user area is reduced to half of the physical capacity due to software mirroring.
Hot-swappable	Yes
Number of slots	8 (Slots 0-7) per CPU/IO module, 16 total, (number of slots used based on FT server model)
Slot 0, Drive 0	System disk
Slots 1-7, Drives 1-7	Data disks
I/F and RAID	Type I and Type II Specification
Type	SAS 3Gb/s RAID 1 (standard)
Optical Disk Drive	Type I and Type II Specifications
Type	DVD Super Multi x 1

Mechanical specifications

The FT server mechanical specifications are shown in the table below:

Table 17: Mechanical specifications

Characteristic	Type I and Type II Specification
Cabinet Type	Rack-mount
Rack units	4
External Dimensions	483 (w) x 178 (h) x 736 (d) mm, 19.0 in. (w) x 7.0 in. (h) x 28.9 in. (d)
Rack clearance	40 cm or more on top, 1 m or more on the front and rear, 60 cm or more on the right and left.
Weight	Maximum 51.5kg , 113.3 lbs

Power supply specifications

The FT server power supply specifications are shown in the table below:

Table 18: Power specifications

Power Supply	Type I Specifications	Type II Specifications
Type	AC 100V-240V +/- 10%, 50/60Hz +/- 3Hz	AC 100V-240V +/- 10%, 50/60Hz +/- 3Hz
Power Consumption	1400VA, 1390W	1300VA, 1290W

Environmental specifications

The FT server specifications are shown in the following table:

Characteristic	Type I and Type II Specification
Ambient Temperature Non-operating	-10° to +55° C
Ambient Humidity Non-operating	20 to 80% RH (non-condensing)
Ambient Temperature Operating	+10° to +35° C
Ambient Humidity Operating	20 to 80% RH (non-condensing)

Grass Valley Ports

20	TCP: Used by mpgsession.exe, mxfsession.exe, gxfsession.exe, or ftpd.exe for FTP.
21	TCP: Used by ftpd.exe for FTP data.
23	Protocol: TCP. Used by Ignite for Chyron HyperX, CG Graphic Load and Playout.
80	Protocol: TCP. Traffic: HTTP. Used by any GV STRATUS server or MediaFrame server.
81	Protocol: TCP. Used by SNFS for GUI (Java). User starts at port 81, redirected to 443.
137	TCP: Used by CIFS/SMB. UDP: Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
138	UDP: Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
139	TCP: Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
161	UDP: Used by snmp.exe for SNMP.
162	UDP: Used by snmptrap.exe for SNMP trap.
280	TCP: Used by MediaFrame Server version 6.3 and lower, config.
443	Protocol: TCP. Used by SNFS for GUI (Java). Used by GV STRATUS applications for HTTPS secure communication with GV STRATUS core server.
445	Protocol: TCP. Used by SDB and XMOS Server and NAS. Used by SiteConfig. File and printer sharing. Used by CIFS/SMB.
1050	TCP: Used by Ignite for gvMiniViewSG2, Scriptviewer for Story Copy.
1062	Protocol: TCP. Used by SNFS for Blockpool. Both ports 1062 and 1063 if HA primary.
1063	Protocol: TCP. Used by SNFS for Blockpool. Both ports 1062 and 1063 if HA primary.
1070	Used by SNFS for GUI (Java connection to Linter).

- 1120**
Protocol: TCP. Used by GV STRATUS servers hosting Xcode Control Engine to access the Carbon Server.
- 1223**
TCP: Used by EDIUS XRE Server.
- 1433**
TCP: Used by DSM.
- 1527**
Protocol: TCP. Used by SNFS for GUI (Java connection to derby database).
- 2000**
Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
- 2001**
Protocol: TCP. Used by SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for SDB Server.
- 2002**
Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing. Used by Ignite for Enco Audio Server, load and playback of audio media.
- 2003**
Protocol: TCP. Used by backup SDB Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
- 02050**
Protocol: TCP. Used by Ignite for Cambotics, Camera Preset Recall.
- 2063**
TCP: Ingest Compusat port.
- 2500 - 2509**
Protocol: TCP. Ports 2500 to 2509 used by Ignite for Telemetrics, Camera Preset Recall.
- 3000**
Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
- 3001**
Protocol: TCP. Used by XMOS Server incoming, and by GV STRATUS and GV STRATUS Rundown clients outgoing.
- 3020**
TCP/UDP: CIFS.
- 3200**
TCP: Used by SDB and XMOS Server Thumbnail Server.

3307	Protocol: TCP. Used by SNFS for GUI (Java connection to MySQL).
3333	TCP: Used by Ingest Server.
3334	TCP: Used by Ingest Server.
3389	TCP: Used by Remote Desktop for use by SiteConfig.
3811	Protocol: TCP. Used by Grass Valley AppService for 3rd party applications to communicate using AMP protocol. Used by SDB Server and GV STRATUS Rundown outgoing AMP communication to control playout channels. Used by Ignite for AMP, Video Server Control.
3838	Protocol: TCP. Used by GV STRATUS Ingest services.
3839	Protocol: TCP. Used by GV STRATUS Ingest services.
5001	Protocol: TCP. Used by Ignite for SDC/HDC Camera, Camera Preset Recall.
5050	Protocol: TCP. Used by Ignite for Tally Expander, Enables GPI/O Relays.
5164	Protocol: TCP. Used by SNFS for fsmppm, IOPS.
5189	Protocol: TCP. Used by SNFS for HA Manager. Symbol HAMGR_DEFAULT_PORT.
7144	Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Router Config service for configuration.
7145	Protocol: TCP. Traffic: HTTP. Used by router config data service.
7213	Protocol: TCP. Used by GV STRATUS Router Controller service.
8000 - 8032	Protocol: TCP. Traffic: HTTP. Port 8000 used as follows: GV STRATUS Common Services, including preferences, licensing, authorization; Proxy config, Web Monitor data service; Ignite for Radamec SCP and Shotoku, IP to 422 Serial Communication (Camera Preset Recall). Ports 8000 to 8032 used by Ignite as follows: Digicart, IP to 422 Serial Communication; MDS-B5 and MDS-E11, IP to 422 Serial Communication (Audio Deck Control); Chyron Aprisa SSX, Chyron Duet, Inscriber MOS, and Multi Deko, IP to 232 Serial Communication (CG Graphic Load and Playout); GV Cameraman, IP to 232 Serial Communication (Camera Preset Recall); Under Monitor Display, IP

to 422 Serial Communication (Sends Clip +/- time to external device); CalrecMixer, IP to 422 or 232 Serial Communication (Audio Mixer Control); VCR (BVW), IP to 422 Serial Communication (Deck Control); VDCP, IP to 422 Serial Communication (Deck/Video Server Control). Ports 8000 - 8032 used by Control Devicemaster RTS.

8080

Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Summit Services. Used by WCF service provided by the GV STRATUS Workflow Engine. Used by WCF service provided by the GV STRATUS Rules Engine.

8081

NET.TCP: Used by WCF service provided by the GV STRATUS Workflow Engine. Used by WCF service provided by the GV STRATUS Rules Engine.

8100

HTTP/TCP: Used by Macintosh systems for the SabreTooth licensing web service to check out licenses

8511

Protocol: TCP. Traffic: HTTP. Used by playout config data service.

8594

Protocol: TCP. Used by Ignite for VizRT, CG Graphic Load and Playout.

8676

Protocol: WCF. Used by GV STRATUS servers hosting Xcode Control Engine to access the Vantage Server.

8732

Protocol: TCP. Traffic: HTTP. Used by Site Config data service .

8733

Protocol: TCP. Traffic: HTTP. Used by K2 Config data service .

8734

Protocol: TCP. Traffic: HTTP. Used by Site Config data service .

8735

Protocol: TCP. Traffic: HTTP. Used by K2 Config data service.

8736

Protocol: TCP. Used by GV STRATUS Control Panel Services for third-party storage configuration.

8737

Protocol: TCP. Traffic: HTTP. Used by GV STRATUS Ingest Config service for configuration. Used by GV STRATUS Control Panel Services for K2 Remote storage configuration. Used by GV STRATUS Core Server.

8740

Protocol: TCP. Traffic: HTTP. Used by general config data service.

8742	Protocol: TCP. Traffic: HTTP. Used by Send destination config data service.
8744	Protocol: TCP. Traffic: HTTP. Used by RMI config data service.
9010	TCP: Used by GV Ask service.
9012	TCP: Used by GV License Manager.
9016	TCP: Used by GV Resolver. Not visible on a configuration page.
9018	TCP: Used by GV RulesWizard. Not visible on a configuration page.
9019	TCP: Used by GV RulesWizard. Not visible on a configuration page.
9020	TCP: Used by GV Transfer Manager.
9022	TCP: Used by GV Asset Manager.
9023	TCP: Used by GV Asset Manager.
9024	TCP: Used by GV Subscription Manager.
9090	Protocol: TCP. Used by Ignite for Ross XPression, CG Graphic Load and Playout.
9110	TCP: Used by GV Proxy MDI.
9115	TCP: Used by GV NTFS MDI.
9120	TCP: Used by GV Common RESTful Archive MDI.
9121	TCP: Used by GV Common RESTful Archive MDI.
9122	TCP: Used by GV DIVA MDI.
9124	TCP: Used by GV FlashNet MDI.

- 9128** TCP: Used by GV FTP MDI in the Aurora workflow, which can use a range of ports, starting with this port number.
- 9129** TCP: Used by GV Masstech MDI.
- 9130** TCP: Used by GV Profile MDI. The service manages one host process for each managed Profile. These host processes require ports 9130-9139. Stopping/starting the service stops/starts all of the host processes.
- 9140** TCP: Used by GV MSeries MDI. The service manages one host process for each managed M-Series iVDR. These host processes require ports 9140 - 9149. Stopping/starting the service stops/starts all of the host processes.
- 9150** TCP: Used by GV News Share MDI.
- 9160** TCP: Used by GV K2 MDI and GV K2 Summit MDI Service. The service manages a number of host processes, one for each K2 system that is being managed. These host processes require ports 9160 - 9169. Stopping/starting the service stops/starts all of the host processes.
- 9170** TCP: Used by GV FTP MDI in the GV STRATUS workflow, which can use a range of ports, starting with this port number.
- 9230** TCP: Used by GV Aurora Proxy Encoder. Starting range for first control.
- 10260** Protocol: TCP. Used by Ignite for Pixel Power Clarity, CG Graphic Load and Playout.
- 10540** TCP: Used by XMOS Server incoming and outgoing MOS communication.
- 10541** TCP: Used by XMOS Server incoming and outgoing MOS communication.
- 10543** Protocol: TCP. Used by Ignite for Deko Mos, CG Graphic Load and Playout.
- 11239** Protocol: TCP. Used by Ignite for Vinten 200, Camera Preset Recall.
- 12000** Protocol: TCP. Used by Ignite for Miranda Vertigo, CG Graphic Load and Playout.
- 12345** Protocol: TCP. Used by Ingest Router Port. Used by Ignite for VCP Server (ESPN).

- 14500**
Protocol: TCP. Used by SNFS for snpolicyd.
- 18262**
TCP: Used by GV ProductFrame Configuration Service, ProductFrame Discovery Agent Service for use by SiteConfig. Used by GV NetConfig Service. gv-pf. UDP: Used by GV NetConfig Service. gv-pf.
- 18263**
UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Device Broadcast/Unicast Protocol. Used by SiteConfig. Sent by ControlPoint, received by Devices
- 18264**
UDP: Used by ProductFrame Discovery Agent Service for GV NetConfig Controller Protocol. Used by SiteConfig. Sent by Devices, received by ControlPoint
- 20566**
Protocol: TCP. Used by SNFS for MySQL. Only used internally on an MDC.
- 31820**
Protocol: UDP. Used for live streaming from K2 Summit/Solo systems. This is the default base for UDP ports, with the range being 31820 to 31827. Other ranges are possible, depending on the UDP port base configured on the K2 Summit/Solo system.
- 49152**
Protocol: TCP. Used by Ignite for DeviceMgr.
- 49168**
HTTP/TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for most functions.
- 49169**
TCP: Used by Grass Valley K2 Config for K2Config application connection between a control point PC and the K2 system device configured. Used for a few functions that require longer time periods.
- 49170**
HTTP: Used by Grass Valley Transfer Queue Service for Transfer Manager connection between source system and destination system.
- 49171**
TCP: Used by Grass Valley AppService for AppCenter connection between control point PC and K2 client/Solo.
- 49172**
HTTP: Used by Grass Valley Storage Utility Host for connection for Storage Utility between the control point PC and the K2 system being configured.
- 50872**
UDP: Used by K2 Appcenter to discover K2 systems on the network.

52000

Protocol: TCP. Grass Valley recommends port range 52000 to 52100 for use by SNFS, configurable with fsports file. Other ranges are available. Contact Grass Valley Support.

60001

Protocol: TCP. Used by ACSLS Tape Libraries. Related to SNFS.

60002

Protocol: TCP. Used by ACSLS Tape Libraries. Related to SNFS.

62051

Protocol: TCP. Used by Ignite for IQLayer, Internal Port used by Ignite.

62052

Protocol: TCP. Used by Ignite for IQLayer, Internal Port used by Ignite.

Glossary

Advanced Logging

The tool that creates and customizes logging of assets.

Advanced Search

The functionality provided by the Advanced Search tool, which includes the ability to search by multiple criteria.

Application Window

An application's main surrounding window, in which the application's panels are docked.

Asset

A physical or logical entity defined and managed by the Grass Valley system.

Asset List

The panel that displays the list for the item currently selected in the Navigator panel or the search results.

Asset type icon

An icon that indicates the type of asset.

Assignment List

The tool that creates placeholders for clips and coordinates with rundown stories on the Newsroom Computer System and with GV STRATUS Rundown.

Authorization Manager

Settings in the GV STRATUS Control Panel that assign licenses and permissions to users and groups.

Bin

On a K2 system, a folder that contains media.

Button Panel

The panel that creates and assigns logging buttons.

Channel Panel

The tool that includes channels and channel gangs for controlling one or more K2 channels.

Channel Panel configuration

The settings that you configure to create a Channel Panel. When the Channel Panels node is selected under the Tools item in the Navigator, the settings appear as an item in the Asset List.

Clip

A single media asset with video and/or audio, timecode, and associated metadata.

Composite panel

A panel that contains one or more panels.

Control Point PC

A network connected PC that is an optional component of the Grass Valley system. It serves as the central configuration location for the Grass Valley system. It runs applications such as the GV STRATUS Control Panel application, the SiteConfig application, the K2Config application, and an SNMP manager application.

Control Tray

The toolbar that opens on the bottom of a GV STRATUS component that displays video. The Control Tray contains buttons for transport control, markup, and other functions.

Copy

A complete copy of an asset.

Crash Record

Start a recording without specifying a clip name.

Dashboard

The tool that displays a dynamic system overview of the activity on the GV STRATUS system, such as channel usage and storage capacity.

Details view

The list view format that displays each asset as a multi-column row.

Drop target

The graphic that appears when hovering an undocked panel over another panel or over the application window. The graphic indicates the area in which the panel is docked if the panel is dropped on the graphic.

Event (Playlist)

A clip, trigger, or other entity that is one of the items in a playlist.

Event (Scheduler)

An item that marks the time that a recording or other action is scheduled to occur.

Feed Ingest

Operations performed by the Scheduler tool where K2 system channels are configured to record clips.

Focus

The state of a user interface component in which the component is currently receiving the input from the keyboard or mouse.

Folder

A physical or logical container. It can be a physical directory on a computer's file system or a database record managed by a Grass Valley system database.

FT server

The fault tolerant server that provides a platform for Grass Valley system devices, such as the GV STRATUS Core server.

Gang

Two or more channels that can be controlled as a single unit. A channel in a gang is referred to as a ganged channel. A channel that is not in a gang is referred to as a single channel.

Grass Valley system

The applications with their database(s) and supporting infrastructure that manage assets for one or more Grass Valley products.

House Number

The panel that populates the house number list and links assets to house numbers from the traffic system.

Ingest Database

The database for the Scheduler tool.

Inspector

The panel that displays details of the asset currently loaded.

K2Config

Grass Valley's application for configuring the K2 Storage Area Network (SAN).

K2 Media Server

The K2 Media Server product, which is a K2 SAN device. It can have the role of file system manager and other roles.

K2 Nearline SAN

A large pool of offline K2 storage to which files can be saved. Suitable for media file transfer. Does not support record or play.

K2 SAN

The K2 Storage Area Network, including K2 Media Server, K2 RAID, and K2 SAN-attached systems. This term applies to an online or production SAN except if it is specified as a nearline SAN.

K2 Solo system

The K2 Solo Media Server product.

K2 Summit SAN-attached system

A K2 Summit system with media storage on a K2 SAN. Applies to K2 Summit (3G) Production Client and K2 Summit Transmission Client products.

K2 Summit standalone system

A K2 Summit system with internal or direct-connect media storage. Applies to K2 Summit (3G) Production Client and K2 Summit Transmission Server products.

K2 Summit system

A K2 Summit system of any storage type, including standalone internal/direct-connect or SAN-attached shared media storage. Applies to K2 Summit (3G) Production Client and K2 Summit Transmission Server/Client products.

K2 system

K2 product family servers, clients, and SANs, either individually or combined as a system. This includes K2 Media Clients, K2 Summit (3G) Production Clients, K2 Summit Transmission Servers/Clients and K2 Solo Media Servers with standalone, direct-connect, or SAN storage, as appropriate for the product.

Keyword

A section of a clip that has duration, as defined by an in point and an out point, with its associated metadata.

Launch

Opening a tool or other component to expose the controls and functionality that you can use to accomplish a task.

Lease

A license that is checked out to a particular user. For the period of time that the license is checked out to that user, the user has a lease on that license.

License Management Database

The database for the assignment of GV STRATUS licenses and roles to groups and users

Marker Panel

The panel that displays keywords and markers of assets.

Marker

A specific point in a clip, as defined by timecode, with its associated metadata.

MDI

MDI is the acronym for Managed Device Interface. An MDI is a software component that provides an interface for the GV STRATUS database to access a device. Typically these are devices on which media resides, such as K2 systems, NAS devices, and archive devices. Each type of device has its own MDI. For most MDIs, the MDI software component is hosted on the GV STRATUS Core server, rather than being hosted on the same machine that it accesses.

Media ID

Metadata assigned to a disk or directory that contains a group of clips that can be imported via RMI.

MEWS Server

A customer-supplied server dedicated to MEWS functionality. It hosts MewsService, which is a Grass Valley service.

Navigator

The panel that contains the tree-view.

Panel

A UI component that can be undocked and docked in an application window.

Permissions

Access to files or directories that can be assigned to user groups.

Playback

Playing an asset, such as a clip or playlist.

Playlist

An asset type consisting of a series of events. A playlist contains only events, transitions, and other features supported on the K2 system channel.

Playlist Editor

The tool that creates and modifies playlists. This tool uses a K2 channel.

Proxy server

The GV STRATUS server on an online or production K2 SAN that provides access to the low-resolution proxy media stored on the SAN. The server has the role of Proxy K2 SAN Server and SNFS file system client.

Proxy Storage

A K2 Nearline SAN that stores low-resolution proxy media for a GV STRATUS system. A GV STRATUS Core Services server takes the role of file system server for the Proxy Storage.

Proxy Storage file system server

The GV STRATUS server on a dedicated Proxy Storage system that provides access to the low-resolution proxy media stored on the system. The server has the roles of Proxy Storage Server and SNFS file system server for the Proxy Storage system.

Render Engine

A GV STRATUS server that functions as a proxy encoder and as a conform server. As a proxy encoder, the server creates low-resolution proxy assets. If a high-resolution asset does not yet have associated proxy, the server creates it. The software that provides the proxy encoder functionality can run on a dedicated Render Engine server or on a GV STRATUS server that has other roles as well, such as a GV STRATUS Express server. As a conform server, the server hosts the Render Engine Service. The service renders a complex asset, such as a GV STRATUS sequence or a project created in EDIUS, into a simple clip.

RMI

RMI is the acronym for Removable Media Interface. It is the tool that populates and ingests files from multiple removable media devices such as P2 and XDCAM. The RMI tool requires a GV STRATUS client with access to high-resolution assets.

Role

Functionality that can be assigned. In the SiteConfig application, it is software functionality assigned to a device. In the GV STRATUS application, it is licensed functionality assigned to a user or group.

Rules Engine Database

The database for the Rules Engine. Stores the rules and the current state of the active rules. This is a SQL database. The database name is RulesEngine.

Salvo

A pre-defined and re-usable set of clips to load into a specific channel.

Scheduler

The tool that schedules events to be recorded.

Scrub bar

The control that allows you to navigate through a clip using your mouse. The scrub bar slider provides click and drag mouse operations.

SDB

SDB is the acronym for Simple Database, which is the database server component for GV STRATUS Rundown. It provides status on clips and on playlists associated with NCS rundowns.

Section

A panel's subdivision, such as the Explore section of the Navigator panel.

Segmentation Tool

The tool that creates segments from assets.

Segment Template

A collection of metadata properties, as configured in the GV STRATUS Inspector panel, that can be associated with a segment as part of the Digital Media Platform workflow.

Send Message

The tool that sends and receives messages and attachments between users logged on to GV STRATUS applications.

Sequence

An asset consisting of a series of events for EDL exchange with an editor or creating finished stories for playout.

Sequence Viewer

The tool that plays sequences and playlists.

Shortcut

The representation of an asset that operates as a copy of the asset but is actually a reference that points to the original asset.

Show/Hide button

The button that shows or hides an interface component. For example, the Show/Hide button that shows or hides transport controls in a Channel Panel.

Show/Hide tab

The tab that indicates the position of a hidden panel. When the tab is clicked, the panel slides open (shows).

Simple Search

The functionality provided by the Simple Search tool, which is the ability to search by a single search term.

SiteConfig

Grass Valley's application for network configuration and software deployment.

Source Viewer

The tool that plays assets and provides controls for adding markers, keywords, and other features.

Storyboard Editor

The tool that creates and modifies sequences. This tool does not use a K2 channel.

GV STRATUS

Grass Valley's media workflow application framework. Applications include the GV STRATUS application and the GV STRATUS Control Panel.

GV STRATUS Common server

A GV STRATUS server with common roles, excluding the role of Core Server and Proxy Server. This server provides licensing and user preference functionality on typical GV STRATUS systems where there are multiple GV STRATUS servers.

GV STRATUS Control Panel

The GV STRATUS application that provides central configuration of the software components of the GV STRATUS system.

GV STRATUS Core server

A GV STRATUS server that has the role of Core Services on a system with multiple GV STRATUS servers. The server provides media management functionality, including the GV STRATUS database and associated software components.

GV STRATUS Core Services

The software components that provide the underlying functionality to GV STRATUS applications. The components run as services on one or more GV STRATUS Core Services servers.

GV STRATUS Database

The database that provides the core asset management functionality to the GV STRATUS system.

GV STRATUS Express server

A GV STRATUS server with all the roles necessary for a basic GV STRATUS system, including the role of Proxy Express Server. The server has larger drives than other GV STRATUS servers to accommodate the low-resolution proxy media that is stored on the local server. This server is designed for use on smaller GV STRATUS systems where no other GV STRATUS servers or proxy systems are present.

Subclip

A clip created by referencing a portion of media from a parent clip. The subclip does not contain any actual media. Rather, it points to the media in the parent clip.

Tag

A metadata entry that has no timecode information. In the GV STRATUS application this applies to an entire asset rather than to a particular point or section in an asset.

Take control

To take control of a K2 system channel that is currently being controlled by another. This can occur when two people are using the application on different PCs and one person opens or adds a channel that is in use by the other person.

Tally indicator

The colored bar or rectangle that indicates the current status (recording, playing, etc) of a channel gang or an individual channel.

Thumbnails view

The list view format that displays each asset as a small rectangular image.

Tiles view

The list view format that displays each asset as a small rectangular image with asset property information to the right.

Transition

The place between two events in a playlist or sequence. A cut and an effect are examples of a transition.

View Mode

The visual representation of a list of items. Modes include detail, tile, and thumbnail views.

Web Monitor

The tool that displays a web page.

WfPersistence Database

The database for the runtime data of the workflow engine. Stores the current state of running workpackages. This is a SQL database. The database name is WfPersistence.

Workflow Database

The database for the workflow engine. Stores the workflow templates. This is a SQL database. The database name is MediaFlow.

Workflow Server

A GV STRATUS server dedicated to hosting the Workflow Engine Service, the Rules Engine Service, and the Xcode Control Engine Service. These services support rules-based operations.

Working Bin

The bin on a K2 system into which one or more channels record.

Workspace

The layout of docked and undocked panels that are part of an application.

Xcode Control Engine

The service that controls a third-party transcode application to support rules-based transcode operations.

Grass Valley Knowledge Base


Visit the Grass Valley Knowledge Base site for technical articles and FAQs (Frequently Asked Questions) about Grass Valley systems and products.

[*Grass Valley Knowledge Base*](#)

Safety Summary

Safety Summary


Read and follow the important safety information below, noting especially those instructions related to risk of fire, electric shock or injury to persons. Additional specific warnings not listed here may be found throughout the manual.


 **WARNING:** Any instructions in this manual that require opening the equipment cover or enclosure are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Safety terms and symbols

Terms in this manual

Safety-related statements may appear in this manual in the following form:

 **WARNING:** Warning statements identify conditions or practices that may result in personal injury or loss of life.

 **CAUTION:** Caution statements identify conditions or practices that may result in damage to equipment or other property, or which may cause equipment crucial to your business environment to become temporarily non-operational.

Terms on the product

These terms may appear on the product:


DANGER — A personal injury hazard is immediately accessible as you read the marking.


WARNING — A personal injury hazard exists but is not immediately accessible as you read the marking.

CAUTION — A hazard to property, product, and other equipment is present.


Symbols on the product



The following symbols may appear on the product:

 Indicates that dangerous high voltage is present within the equipment enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

 Indicates that user, operator or service technician should refer to product manual(s) for important operating, maintenance, or service instructions.

 This is a prompt to note fuse rating when replacing fuse(s). The fuse referenced in the text must be replaced with one having the ratings indicated.

 Identifies a protective grounding terminal which must be connected to earth ground prior to making any other equipment connections.

	Identifies an external protective grounding terminal which may be connected to earth ground as a supplement to an internal grounding terminal.
	Indicates that static sensitive components are present which may be damaged by electrostatic discharge. Use anti-static procedures, equipment and surfaces during servicing.

Warnings

The following warning statements identify conditions or practices that can result in personal injury or loss of life.

Dangerous voltage or current may be present — Disconnect power and remove battery (if applicable) before removing protective panels, soldering, or replacing components.

Do not service alone — Do not internally service this product unless another person capable of rendering first aid and resuscitation is present.

Remove jewelry — Prior to servicing, remove jewelry such as rings, watches, and other metallic objects.

Avoid exposed circuitry — Do not touch exposed connections, components or circuitry when power is present.

Use proper power cord — Use only the power cord supplied or specified for this product.

Ground product — Connect the grounding conductor of the power cord to earth ground.

Operate only with covers and enclosure panels in place — Do not operate this product when covers or enclosure panels are removed.

Use correct fuse — Use only the fuse type and rating specified for this product.

Use only in dry environment — Do not operate in wet or damp conditions.

Use only in non-explosive environment — Do not operate this product in an explosive atmosphere.

High leakage current may be present — Earth connection of product is essential before connecting power.

Dual power supplies may be present — Be certain to plug each power supply cord into a separate branch circuit employing a separate service ground. Disconnect both power supply cords prior to servicing.

Double pole neutral fusing — Disconnect mains power prior to servicing.

Use proper lift points — Do not use door latches to lift or move equipment.

Avoid mechanical hazards — Allow all rotating devices to come to a stop before servicing.

Cautions

The following caution statements identify conditions or practices that can result in damage to equipment or other property

Use correct power source — Do not operate this product from a power source that applies more than the voltage specified for the product.

Use correct voltage setting — If this product lacks auto-ranging power supplies, before applying power ensure that the each power supply is set to match the power source.

Provide proper ventilation — To prevent product overheating, provide equipment ventilation in accordance with installation instructions.

Use anti-static procedures — Static sensitive components are present which may be damaged by electrostatic discharge. Use anti-static procedures, equipment and surfaces during servicing.

Do not operate with suspected equipment failure — If you suspect product damage or equipment failure, have the equipment inspected by qualified service personnel.

Ensure mains disconnect — If mains switch is not provided, the power cord(s) of this equipment provide the means of disconnection. The socket outlet must be installed near the equipment and must be easily accessible. Verify that all mains power is disconnected before installing or removing power supplies and/or options.

Route cable properly — Route power cords and other cables so that they are not likely to be damaged. Properly support heavy cable bundles to avoid connector damage.

Use correct power supply cords — Power cords for this equipment, if provided, meet all North American electrical codes. Operation of this equipment at voltages exceeding 130 VAC requires power supply cords which comply with NEMA configurations. International power cords, if provided, have the approval of the country of use.

Use correct replacement battery — This product may contain batteries. To reduce the risk of explosion, check polarity and replace only with the same or equivalent type recommended by manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Troubleshoot only to board level — Circuit boards in this product are densely populated with surface mount technology (SMT) components and application specific integrated circuits (ASICs). As a result, circuit board repair at the component level is very difficult in the field, if not impossible. For warranty compliance, do not troubleshoot systems beyond the board level.

Sicherheit – Überblick

Lesen und befolgen Sie die wichtigen Sicherheitsinformationen dieses Abschnitts. Beachten Sie insbesondere die Anweisungen bezüglich

Brand-, Stromschlag- und Verletzungsgefahren. Weitere spezifische, hier nicht aufgeführte Warnungen finden Sie im gesamten Handbuch.



WARNUNG: Alle Anweisungen in diesem Handbuch, die das Abnehmen der Geräteabdeckung oder des Gerätegehäuses erfordern, dürfen nur von qualifiziertem Servicepersonal ausgeführt werden. Um die Stromschlaggefahr zu verringern, führen Sie keine Wartungsarbeiten außer den in den Bedienungsanleitungen genannten Arbeiten aus, es sei denn, Sie besitzen die entsprechende Qualifikationen für diese Arbeiten.


Sicherheit – Begriffe und Symbole

In diesem Handbuch verwendete Begriffe

Sicherheitsrelevante Hinweise können in diesem Handbuch in der folgenden Form auftauchen:



WARNUNG: Warnungen weisen auf Situationen oder Vorgehensweisen hin, die Verletzungs- oder Lebensgefahr bergen.

 **VORSICHT:** *Vorsichtshinweise weisen auf Situationen oder Vorgehensweisen hin, die zu Schäden an Ausrüstungskomponenten oder anderen Gegenständen oder zum zeitweisen Ausfall wichtiger Komponenten in der Arbeitsumgebung führen können.*

Hinweise am Produkt

Die folgenden Hinweise können sich am Produkt befinden:







GEFAHR – Wenn Sie diesen Begriff lesen, besteht ein unmittelbares Verletzungsrisiko.

WARNUNG – Wenn Sie diesen Begriff lesen, besteht ein mittelbares Verletzungsrisiko.

VORSICHT – Es besteht ein Risiko für Objekte in der Umgebung, den Mixer selbst oder andere Ausrüstungskomponenten.

Symbole am Produkt

Die folgenden Symbole können sich am Produkt befinden:

	Weist auf eine gefährliche Hochspannung im Gerätegehäuse hin, die stark genug sein kann, um eine Stromschlaggefahr darzustellen.
	Weist darauf hin, dass der Benutzer, Bediener oder Servicetechniker wichtige Bedienungs-, Wartungs- oder Serviceanweisungen in den Produkthandbüchern lesen sollte.
	Dies ist eine Aufforderung, beim Wechsel von Sicherungen auf deren Nennwert zu achten. Die im Text angegebene Sicherung muss durch eine Sicherung ersetzt werden, die die angegebenen Nennwerte besitzt.
	Weist auf eine Schutzerdungsklemme hin, die mit dem Erdungskontakt verbunden werden muss, bevor weitere Ausrüstungskomponenten angeschlossen werden.
	Weist auf eine externe Schutzerdungsklemme hin, die als Ergänzung zu einem internen Erdungskontakt an die Erde angeschlossen werden kann.
	Weist darauf hin, dass es statisch empfindliche Komponenten gibt, die durch eine elektrostatische Entladung beschädigt werden können. Verwenden Sie antistatische Prozeduren, Ausrüstung und Oberflächen während der Wartung.

Warnungen

Die folgenden Warnungen weisen auf Bedingungen oder Vorgehensweisen hin, die Verletzungs- oder Lebensgefahr bergen:

Gefährliche Spannungen oder Ströme – Schalten Sie den Strom ab, und entfernen Sie ggf. die Batterie, bevor sie Schutzabdeckungen abnehmen, löten oder Komponenten austauschen.

Servicearbeiten nicht alleine ausführen – Führen Sie interne Servicearbeiten nur aus, wenn eine weitere Person anwesend ist, die erste Hilfe leisten und Wiederbelebungsmaßnahmen einleiten kann.

Schmuck abnehmen – Legen Sie vor Servicearbeiten Schmuck wie Ringe, Uhren und andere metallische Objekte ab.

Keine offen liegenden Leiter berühren – Berühren Sie bei eingeschalteter Stromzufuhr keine offen liegenden Leitungen, Komponenten oder Schaltungen.

Richtiges Netzkabel verwenden – Verwenden Sie nur das mitgelieferte Netzkabel oder ein Netzkabel, das den Spezifikationen für dieses Produkt entspricht.

Gerät erden – Schließen Sie den Erdleiter des Netzkabels an den Erdungskontakt an.

Gerät nur mit angebrachten Abdeckungen und Gehäuseseiten betreiben – Schalten Sie dieses Gerät nicht ein, wenn die Abdeckungen oder Gehäuseseiten entfernt wurden.

Richtige Sicherung verwenden – Verwenden Sie nur Sicherungen, deren Typ und Nennwert den Spezifikationen für dieses Produkt entsprechen.

Gerät nur in trockener Umgebung verwenden – Betreiben Sie das Gerät nicht in nassen oder feuchten Umgebungen.

Gerät nur verwenden, wenn keine Explosionsgefahr besteht – Verwenden Sie dieses Produkt nur in Umgebungen, in denen keinerlei Explosionsgefahr besteht.

Hohe Kriechströme – Das Gerät muss vor dem Einschalten unbedingt geerdet werden.

Doppelte Spannungsversorgung kann vorhanden sein – Schließen Sie die beiden Anschlußkabel an getrennte Stromkreise an. Vor Servicearbeiten sind beide Anschlußkabel vom Netz zu trennen.

Zweipolige, neutrale Sicherung – Schalten Sie den Netzstrom ab, bevor Sie mit den Servicearbeiten beginnen.

Fassen Sie das Gerät beim Transport richtig an – Halten Sie das Gerät beim Transport nicht an Türen oder anderen beweglichen Teilen fest.

Gefahr durch mechanische Teile – Warten Sie, bis der Lüfter vollständig zum Halt gekommen ist, bevor Sie mit den Servicearbeiten beginnen.

Vorsicht

Die folgenden Vorsichtshinweise weisen auf Bedingungen oder Vorgehensweisen hin, die zu Schäden an Ausrüstungskomponenten oder anderen Gegenständen führen können:

Gerät nicht öffnen – Durch das unbefugte Öffnen wird die Garantie ungültig.

Richtige Spannungsquelle verwenden – Betreiben Sie das Gerät nicht an einer Spannungsquelle, die eine höhere Spannung liefert als in den Spezifikationen für dieses Produkt angegeben.

Gerät ausreichend belüften – Um eine Überhitzung des Geräts zu vermeiden, müssen die Ausrüstungskomponenten entsprechend den Installationsanweisungen belüftet werden. Legen Sie kein Papier unter das Gerät. Es könnte die Belüftung behindern. Platzieren Sie das Gerät auf einer ebenen Oberfläche.

Antistatische Vorkehrungen treffen – Es gibt statisch empfindliche Komponenten, die durch eine elektrostatische Entladung beschädigt werden können. Verwenden Sie antistatische Prozeduren, Ausrüstung und Oberflächen während der Wartung.

CF-Karte nicht mit einem PC verwenden – Die CF-Karte ist speziell formatiert. Die auf der CF-Karte gespeicherte Software könnte gelöscht werden.

Gerät nicht bei eventuellem Ausrüstungsfehler betreiben – Wenn Sie einen Produktschaden oder Ausrüstungsfehler vermuten, lassen Sie die Komponente von einem qualifizierten Servicetechniker untersuchen.

Kabel richtig verlegen – Verlegen Sie Netzkabel und andere Kabel so, dass Sie nicht beschädigt werden. Stützen Sie schwere Kabelbündel ordnungsgemäß ab, damit die Anschlüsse nicht beschädigt werden.


Richtige Netzkabel verwenden – Wenn Netzkabel mitgeliefert wurden, erfüllen diese alle nationalen elektrischen Normen. Der Betrieb dieses Geräts mit Spannungen über 130 V AC erfordert Netzkabel, die NEMA-Konfigurationen entsprechen. Wenn internationale Netzkabel mitgeliefert wurden, sind diese für das Verwendungsland zugelassen.

Richtige Ersatzbatterie verwenden – Dieses Gerät enthält eine Batterie. Um die Explosionsgefahr zu verringern, prüfen Sie die Polarität und tauschen die Batterie nur gegen eine Batterie desselben Typs oder eines gleichwertigen, vom Hersteller empfohlenen Typs aus. Entsorgen Sie gebrauchte Batterien entsprechend den Anweisungen des Batterieherstellers.

Das Gerät enthält keine Teile, die vom Benutzer gewartet werden können. Wenden Sie sich bei Problemen bitte an den nächsten Händler.

Consignes de sécurité


Il est recommandé de lire, de bien comprendre et surtout de respecter les informations relatives à la sécurité qui sont exposées ci-après, notamment les consignes destinées à prévenir les risques d'incendie, les décharges électriques et les blessures aux personnes. Les avertissements complémentaires, qui ne sont pas nécessairement repris ci-dessous, mais présents dans toutes les sections du manuel, sont également à prendre en considération.

 **AVERTISSEMENT:** *Toutes les instructions présentes dans ce manuel qui concernent l'ouverture des capots ou des logements de cet équipement sont destinées exclusivement à des membres qualifiés du personnel de maintenance. Afin de diminuer les risques de décharges électriques, ne procédez à aucune intervention d'entretien autre que celles contenues dans le manuel de l'utilisateur, à moins que vous ne soyez habilité pour le faire.*

Consignes et symboles de sécurité

Termes utilisés dans ce manuel

Les consignes de sécurité présentées dans ce manuel peuvent apparaître sous les formes suivantes :

 **AVERTISSEMENT:** *Les avertissements signalent des conditions ou des pratiques susceptibles d'occasionner des blessures graves, voire même fatales.*

 **MISE EN GARDE:** *Les mises en garde signalent des conditions ou des pratiques susceptibles d'occasionner un endommagement à l'équipement ou aux installations, ou de rendre l'équipement temporairement non opérationnel, ce qui peut porter préjudice à vos activités.*

Signalétique apposée sur le produit

La signalétique suivante peut être apposée sur le produit :







DANGER — risque de danger imminent pour l'utilisateur.

AVERTISSEMENT — Risque de danger non imminent pour l'utilisateur.

MISE EN GARDE — Risque d'endommagement du produit, des installations ou des autres équipements.

Symboles apposés sur le produit

Les symboles suivants peuvent être apposés sur le produit :

	Signale la présence d'une tension élevée et dangereuse dans le boîtier de l'équipement ; cette tension peut être suffisante pour constituer un risque de décharge électrique.
	Signale que l'utilisateur, l'opérateur ou le technicien de maintenance doit faire référence au(x) manuel(s) pour prendre connaissance des instructions d'utilisation, de maintenance ou d'entretien.
	Il s'agit d'une invite à prendre note du calibre du fusible lors du remplacement de ce dernier. Le fusible auquel il est fait référence dans le texte doit être remplacé par un fusible du même calibre.
	Identifie une borne de protection de mise à la masse qui doit être raccordée correctement avant de procéder au raccordement des autres équipements.
	Identifie une borne de protection de mise à la masse qui peut être connectée en tant que borne de mise à la masse supplémentaire.
	Signale la présence de composants sensibles à l'électricité statique et qui sont susceptibles d'être endommagés par une décharge électrostatique. Utilisez des procédures, des équipements et des surfaces antistatiques durant les interventions d'entretien.

Avertissements

Les avertissements suivants signalent des conditions ou des pratiques susceptibles d'occasionner des blessures graves, voire même fatales :

Présence possible de tensions ou de courants dangereux — Mettez hors tension, débranchez et retirez la pile (le cas échéant) avant de déposer les couvercles de protection, de défaire une soudure ou de remplacer des composants.

Ne procédez pas seul à une intervention d'entretien — Ne réalisez pas une intervention d'entretien interne sur ce produit si une personne n'est pas présente pour fournir les premiers soins en cas d'accident.

Retirez tous vos bijoux — Avant de procéder à une intervention d'entretien, retirez tous vos bijoux, notamment les bagues, la montre ou tout autre objet métallique.

Évitez tout contact avec les circuits exposés — Évitez tout contact avec les connexions, les composants ou les circuits exposés s'ils sont sous tension.

Utilisez le cordon d'alimentation approprié — Utilisez exclusivement le cordon d'alimentation fourni avec ce produit ou spécifié pour ce produit.

Raccordez le produit à la masse — Raccordez le conducteur de masse du cordon d'alimentation à la borne de masse de la prise secteur.

Utilisez le produit lorsque les couvercles et les capots sont en place — N'utilisez pas ce produit si les couvercles et les capots sont déposés.

Utilisez le bon fusible — Utilisez exclusivement un fusible du type et du calibre spécifiés pour ce produit.

Utilisez ce produit exclusivement dans un environnement sec — N'utilisez pas ce produit dans un environnement humide.

Utilisez ce produit exclusivement dans un environnement non explosible — N'utilisez pas ce produit dans un environnement dont l'atmosphère est explosible.

Présence possible de courants de fuite — Un raccordement à la masse est indispensable avant la mise sous tension.

Deux alimentations peuvent être présentes dans l'équipement — Assurez vous que chaque cordon d'alimentation est raccordé à des circuits de terre séparés. Débranchez les deux cordons d'alimentation avant toute intervention.

Fusion neutre bipolaire — Débranchez l'alimentation principale avant de procéder à une intervention d'entretien.

Utilisez les points de levage appropriés — Ne pas utiliser les verrous de la porte pour lever ou déplacer l'équipement.

Évitez les dangers mécaniques — Laissez le ventilateur s'arrêter avant de procéder à une intervention d'entretien.

Mises en garde

Les mises en garde suivantes signalent les conditions et les pratiques susceptibles d'occasionner des endommagements à l'équipement et aux installations :

N'ouvrez pas l'appareil — Toute ouverture prohibée de l'appareil aura pour effet d'annuler la garantie.

Utilisez la source d'alimentation adéquate — Ne branchez pas ce produit à une source d'alimentation qui utilise une tension supérieure à la tension nominale spécifiée pour ce produit.

Assurez une ventilation adéquate — Pour éviter toute surchauffe du produit, assurez une ventilation de l'équipement conformément aux instructions d'installation. Ne déposez aucun document sous l'appareil – ils peuvent gêner la ventilation. Placez l'appareil sur une surface plane.

Utilisez des procédures antistatiques - Les composants sensibles à l'électricité statique présents dans l'équipement sont susceptibles d'être endommagés par une décharge électrostatique. Utilisez des procédures, des équipements et des surfaces antistatiques durant les interventions d'entretien.

N'utilisez pas la carte CF avec un PC — La carte CF a été spécialement formatée. Le logiciel enregistré sur la carte CF risque d'être effacé.

N'utilisez pas l'équipement si un dysfonctionnement est suspecté — Si vous suspectez un dysfonctionnement du produit, faites inspecter celui-ci par un membre qualifié du personnel d'entretien.

Acheminez les câbles correctement — Acheminez les câbles d'alimentation et les autres câbles de manière à ce qu'ils ne risquent pas d'être endommagés. Supportez correctement les enroulements de câbles afin de ne pas endommager les connecteurs.

Utilisez les cordons d'alimentation adéquats — Les cordons d'alimentation de cet équipement, s'ils sont fournis, satisfont aux exigences de toutes les réglementations régionales. L'utilisation de cet équipement à des tensions dépassant les 130 V en c.a. requiert des cordons d'alimentation qui satisfont aux exigences des configurations NEMA. Les cordons internationaux, s'ils sont fournis, ont reçu l'approbation du pays dans lequel l'équipement est utilisé.

Utilisez une pile de remplacement adéquate — Ce produit renferme une pile. Pour réduire le risque d'explosion, vérifiez la polarité et ne remplacez la pile que par une pile du même type, recommandée par le fabricant. Mettez les piles usagées au rebut conformément aux instructions du fabricant des piles.

Cette unité ne contient aucune partie qui peut faire l'objet d'un entretien par l'utilisateur. Si un problème survient, veuillez contacter votre distributeur local.

Certifications and compliances

Canadian certified power cords

Canadian approval includes the products and power cords appropriate for use in the North America power network. All other power cords supplied are approved for the country of use.

FCC emission control

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Grass Valley can affect emission compliance and could void the user's authority to operate this equipment.

Canadian EMC Notice of Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

EN55103 1/2 Class A warning

This product has been evaluated for Electromagnetic Compatibility under the EN 55103-1/2 standards for Emissions and Immunity and meets the requirements for E4 environment.

This product complies with Class A (E4 environment). In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC emission limits

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

Laser compliance

Laser safety requirements

This product may contain a Class 1 certified laser device. Operating this product outside specifications or altering its original design may result in hazardous radiation exposure, and may be considered

an act of modifying or new manufacturing of a laser product under U.S. regulations contained in 21CFR Chapter 1, subchapter J or CENELEC regulations in HD 482 S1. People performing such an act are required by law to recertify and reidentify this product in accordance with provisions of 21CFR subchapter J for distribution within the U.S.A., and in accordance with CENELEC HD 482 S1 for distribution within countries using the IEC 825 standard.

Laser safety

Laser safety in the United States is regulated by the Center for Devices and Radiological Health (CDRH). The laser safety regulations are published in the “Laser Product Performance Standard,” Code of Federal Regulation (CFR), Title 21, Subchapter J.

The International Electrotechnical Commission (IEC) Standard 825, “Radiation of Laser Products, Equipment Classification, Requirements and User’s Guide,” governs laser products outside the United States. Europe and member nations of the European Free Trade Association fall under the jurisdiction of the Comité Européen de Normalization Electrotechnique (CENELEC).

Safety certification

This product has been evaluated and meets the following Safety Certification Standards:

Standard	Designed/tested for compliance with:
ANSI/UL 60950-1	Safety of Information Technology Equipment, including Electrical Business Equipment (Second edition 2007).
IEC 60950-1 with CB cert.	Safety of Information Technology Equipment, including Electrical Business Equipment (Second edition, 2005).
CAN/CSA C22.2 No. 60950-1	Safety of Information Technology Equipment, including Electrical Business Equipment (Second edition 2007).
BS EN 60950-1	Safety of Information Technology Equipment, including Electrical Business Equipment 2006.

ESD Protection

Electronics today are more susceptible to electrostatic discharge (ESD) damage than older equipment. Damage to equipment can occur by ESD fields that are smaller than you can feel. Implementing the information in this section will help you protect the investment that you have made in purchasing Grass Valley equipment. This section contains Grass Valley’s recommended ESD guidelines that should be followed when handling electrostatic discharge sensitive (ESDS) items. These minimal recommendations are based on the information in the [Sources of ESD and Risks](#) on page 1398 area. The information in [Grounding Requirements for Personnel](#) on page 1398 is provided to assist you in selecting an appropriate grounding method.

Recommended ESD Guidelines

Follow these guidelines when handling Grass Valley equipment:

- Only trained personnel that are connected to a grounding system should handle ESDS items.

- Do not open any protective bag, box, or special shipping packaging until you have been grounded.
NOTE: When a Personal Grounding strap is unavailable, as an absolute minimum, touch a metal object that is touching the floor (for example, a table, frame, or rack) to discharge any static energy before touching an ESDS item.
- Open the anti-static packaging by slitting any existing adhesive tapes. Do not tear the tapes off.
- Remove the ESDS item by holding it by its edges or by a metal panel.
- Do not touch the components of an ESDS item unless it is absolutely necessary to configure or repair the item.
- Keep the ESDS work area clear of all nonessential items such as coffee cups, pens, wrappers and personal items as these items can discharge static. If you need to set an ESDS item down, place it on an anti-static mat or on the anti-static packaging.

Sources of ESD and Risks

The following information identifies possible sources of electrostatic discharge and can be used to help establish an ESD policy.

Personnel

One of the largest sources of static is personnel. The static can be released from a person's clothing and shoes.

Environment

The environment includes the humidity and floors in a work area. The humidity level must be controlled and should not be allowed to fluctuate over a broad range. Relative humidity (RH) is a major part in determining the level of static that is being generated. For example, at 10% - 20% RH a person walking across a carpeted floor can develop 35kV; yet when the relative humidity is increased to 70% - 80%, the person can only generate 1.5kV.

Static is generated as personnel move (or as equipment is moved) across a floor's surface. Carpeted and waxed vinyl floors contribute to static build up.

Work Surfaces

Painted or vinyl-covered tables, chairs, conveyor belts, racks, carts, anodized surfaces, plexiglass covers, and shelving are all static generators.

Equipment

Any equipment commonly found in an ESD work area, such as solder guns, heat guns, blowers, etc., should be grounded.

Materials

Plastic work holders, foam, plastic tote boxes, pens, packaging containers and other items commonly found at workstations can generate static electricity.

Grounding Requirements for Personnel

The information in this section is provided to assist you in selecting a grounding method. This information is taken from ANSI/ESD S20.20-2007 (Revision of ANSI/ESD S20.20-1999).

Product Qualification

Personnel Grounding Technical Requirement	Test Method	Required Limits
Wrist Strap System*	ANSI/ESD S1.1 (Section 5.11)	$< 3.5 \times 10^7$ ohm
Flooring / Footwear System – Method 1	ANSI/ESD STM97.1	$< 3.5 \times 10^7$ ohm
Flooring / Footwear System – Method 2 (both required)	ANSI/ESD STM97.1	$< 10^9$ ohm
	ANSI/ESD STM97.2	< 100 V

Product qualification is normally conducted during the initial selection of ESD control products and materials. Any of the following methods can be used: product specification review, independent laboratory evaluation, or internal laboratory evaluation.

Compliance Verification

Personnel Grounding Technical Requirement	Test Method	Required Limits
Wrist Strap System*	ESD TR53 Wrist Strap Section	$< 3.5 \times 10^7$ ohm
Flooring / Footwear System – Method 1	ESD TR53 Flooring Section and ESD TR53 Footwear Section	$< 3.5 \times 10^7$ ohm
Flooring / Footwear System – Method 2 (both required)	ESD TR53 Flooring Section and ESD TR53 Footwear Section	$< 1.0 \times 10^9$ ohm

* For situations where an ESD garment is used as part of the wrist strap grounding path, the total system resistance, including the person, garment, and grounding cord, must be less than 3.5×10^7 ohm.

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JPEG acknowledgment

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