

GV STRATUS
Media Workflow Application Framework
Release Notes
Software Version 3.1

This document contains the most recent information and supersedes previous publications. Check the Grass Valley website at www.grassvalley.com/docs for an updated version that contains additional important information.

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Grass Valley Web Site

The <http://www.grassvalley.com/support> web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Download software updates, drivers, and patches.



END-OF-LIFE PRODUCT RECYCLING NOTICE

Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive, the United States Environmental Protection Agency, and U.S. state and local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester.

Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the U.S. and Canada please call 800-547-8949, and ask to be connected to the EH&S Department. Additional information concerning the program can be found at: www.grassvalley.com/about/environmental-policy

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Release Summary

Release note revisions for this release

This release of software has multiple versions of release notes, as follows:

Part number	Description
071-8812-11	Initial release notes for version 3.1 software
071-8812-12	Topics added/modified, with the following changes: <ul style="list-style-type: none">• Documentation listed under "What's new" updated to include a revised <i>"GV STRATUS User Manual"</i>. The revised document includes a K2 storage task for the GV STRATUS plug-in for Adobe Premiere Pro.• Using the GV STRATUS application in Adobe Premiere Pro on page 14. This is the complete set of topics for the GV STRATUS plug-in for Adobe Premiere Pro, including a K2 storage task.

What's new

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®** — A GV STRATUS plug-in to Adobe® Premiere® 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®. 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.

Changes and features in previous releases

The following sections describe changes and features in past releases.

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.

Version 2.8

- **Traffic system and K2 Edge integration** — The following features provide better integration of content ingest, preparation, and playout between GV STRATUS and K2 Edge:
 - **Segmentation tool** — The tool that creates segments from assets.
 - **House Number List** — The panel that populates the house number list and links assets to house numbers from the traffic system.
- **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.
- **Workflow/Rules Engine** — The following functionality is added:
 - An export rule can transcode assets. This requires an Xcode license to control a third party transcode application.
 - An export rule can export metadata files and closed captioning files.
 - Transcode jobs can be monitored.
 - Transfer rules are available, separate from export rules.

Also, with this release of GV STRATUS software, the trial period ends for the Workflow/Rules Engine. A license must be purchased from Grass Valley to continue to use this feature. For a description of the Workflow/Rules Engine, refer to changes and features in the previous 2.7 release.

- **Web publishing workflow** — A set of tools is available to process and publish content to web platforms. The tools include the following:
 - The Segmentation tool for segmenting assets.
 - The Inspector panel for adding metadata.
 - The Workflow/Rules Engine for transcoding to a FTP location, with closed captioning and metadata files.

The web publishing workflow is available for a trial period of four months after installation of GV STRATUS 2.8.

- **Channel Panel** — Markers can be added and router settings configured in a Channel Panel.
- **Control Panel** — The user interface is simplified to make it easier to find and configure settings. Also, a site name can be configured for your GV STRATUS system.
- **Archive** — MXF is available.
- **Video Player** — Performance is improved.
- **SQL update** — The GV STRATUS Database has additional settings, which requires an updated SQL version. You must update SQL along with the upgrade to this version of GV STRATUS software..

- **Aurora to GV STRATUS migration** — The Grass Valley Professional Services group provides planning, management, and utilities to migrate a MediaFrame database on an Aurora 7.1.x system to the GV STRATUS database. Contact your Grass Valley representative to plan your migration.
- **GV STRATUS Server nomenclature** — The following nomenclature replaces the STRATUS-CS-CE-ENG nomenclature:
 - STRATUS-CS-PE: Proxy Encoder
 - STRATUS-CS-CE: Conform Server
 - STRATUS-CS-XRE: EDIUS XRE Server
 - STRATUS-CS-WFE: Workflow Server
- **Documentation** – Use K2/STRATUS Documentation Set 063-8289-14 April 2013. The following manuals have been revised:
 - "GV STRATUS User Manual" 071-8813-05
 - "GV STRATUS Installation and Service Manual" 071-8814-05

In addition to the manuals on the Documentation Set, use these release notes and "GV STRATUS Upgrade Instructions" 071-8853-04.

Version 2.7.5

- **EDIUS XS** — Operates in a low resolution proxy workflow, with the GV STRATUS application embedded in the EDIUS XS application. Requires an EDIUS XRE Server in order to render projects. Requires GV STRATUS Flex license or higher.
- **EDIUS XRE Server** — Conforms an EDIUS project.
- **Documentation** – Use K2/STRATUS Documentation Set 063-8289-13 February 2013. The following manuals have been revised:
 - "GV STRATUS User Manual" 071-8813-04
 - "GV STRATUS Installation and Service Manual" 071-8814-04

In addition to the manuals on the Documentation Set, use these release notes and "GV STRATUS Upgrade Instructions" 071-8853-03.

Version 2.7

- **Workflow/Rules Engine** — The Workflow Engine and the Rules Engine work together to support automated processes. In this release, export rules and delete rules are supported.
NOTE: This feature is provided on a free trial basis with this release of GV STRATUS software. The trial period ends with the next major release of GV STRATUS software. After the trial period ends, you must purchase a license from Grass Valley to continue to use this feature.
- **Delete Rights** — Groups and users can be denied or assigned permissions to delete assets.
- **RESTful API** — Contact your Grass Valley representative for information.
- **K2 software version 9.0 compatibility** — GV STRATUS inherits the latest features and functionality from K2 family products. You must upgrade your K2 systems to a 9.0 version for compatibility with this GV STRATUS version. If existing K2 Summit systems are at a version below 9.0, you cannot do the typical software-only upgrade to version 9.0. You must reimage and in most cases upgrade hardware in K2 Summit systems in order to support version 9.0. Refer to "K2 Release Notes" for upgrade information.

- **Avid DNxHD support** — GV STRATUS inherits Avid DNxHD from K2 version 9.0 and provides support for Proxy Encoding and Conform of Avid DNxHD.
- **Authorization Manager** — Support for large Windows Active Directory domain is included in the redesigned GV STRATUS Authorization Manager. You must reconfigure your assignment of licenses and roles to groups and users after you upgrade.
- **Dashboard** — Provides monitoring of storage capacity and channel/asset usage.
- **Storyboard markers** — Markers are preserved in Storyboard subclips.
- **DIVA disk array** — Configuration of DIVA groups to be exposed by GV STRATUS.
- **Public search** — Makes saved searches available to multiple GV STRATUS users.
- **Large font setting** — Increases the font size in the GV STRATUS application.
- **Storyboard Editor** — Enhancements to support extend edit and trim.
- **Restore from archive** — Enhancements to support restoring multiple assets from archive.
- **Inspector panel** — Enhancements support show/hide areas for a more usable display of information and settings.
- **Subclip destination** — Specifies the destination when creating a subclip.
- **EDIUS XS** — Operates in a low resolution proxy workflow, with the GV STRATUS application embedded in the EDIUS XS application Requires GV STRATUS Flex license.
- **EDIUS XRE Server** — Conforms an EDIUS project.
- **FTP network** — FTP/streaming network supported on GV STRATUS Express server, GV STRATUS Core server and Proxy Encoder. This results in network cabling, network adapter naming, and network adapter bind order that is different than servers shipped with previous versions. Refer to "*GV STRATUS Installation and Service Manual*" for details.
- **Documentation** — Use K2/STRATUS Documentation Set 063-8289-12 January 2013. The following manuals are included:
 - "*GV STRATUS User Manual*" 071-8813-03
 - "*GV STRATUS Installation and Service Manual*" 071-8814-03

In addition to the manuals on the Documentation Set, use these release notes and "*GV STRATUS Upgrade Instructions*" 071-8853-02.

Version 2.5

- **Archive/Restore** — Support for FlashNet, DIVA, and Generic FTP archive systems.
- **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.
- **Custom Metadata** — Custom fields can be defined for your assets that uniquely fit your site's workflow.
- **Associations** — Relationships between assets are displayed.
- **Marker Synchronization** — Markers can be synchronized between K2 Dyno and GV STRATUS. If you configure for Full synchronization, the additional K2 Dyno markers added to the K2 database must not make the database size exceed 80 MB.

NOTE: *GV STRATUS manuals and the GV STRATUS Control Panel Help File incorrectly state that the K2 database size limit is 800 MB.*

- **Documentation** – Use K2/STRATUS Documentation Set 063-8289-10 September 2012. The following manuals are included:
 - GV STRATUS User Manual 071-8813-02
 - GV STRATUS Installation and Service Manual 071-8814-02
 - FT Server Instruction Manual 071-8852-01

In addition to the manuals on the Documentation Set, use these release notes and GV STRATUS Upgrade Instructions 071-8853-01.

Additional notes

The following sections contain additional information about this release.

Upgrading GV STRATUS systems

To upgrade to this version of the GV STRATUS product, follow instructions in "*GV STRATUS Upgrade Instructions*".

About groups and users

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. Beginning with Grass Valley's longstanding monitoring application NetCentral and progressing to the next generation tool GV GUARDIAN, remote monitoring and proactive predictive failure analysis are important contributors to Grass Valley system solutions. Both NetCentral and GV GUARDIAN run on commercial off-the-shelf server PCs, such as the K2 system control point PC. Grass Valley and 3rd party devices report status via Window Messaging, Simple Network Management Protocol (SNMP), or syslog to the NetCentral or GV GUARDIAN application. Each application provides easy to use, fully autonomous remote monitoring to predict errors, provide proactive notifications, and centrally consolidate error logs and hardware failure information. Grass Valley recommends using a remote monitoring tool like NetCentral or GV GUARDIAN. With NetCentral, and even more so 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. If you have an existing NetCentral installation you install a NetCentral device provider on the NetCentral server PC for each type of device you are monitoring. Refer to NetCentral product documentation for installation and operating instructions. With GV GUARDIAN, only SNMP MIBs are required. Separate device providers are not necessary. Refer to the on-line GV GUARDIAN Topic Library for information.

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. Passwords are case sensitive.

	Windows administrator	Grass Valley product administrator	K2 product administrator	Grass Valley product user
User name	Administrator	GVAdmin	K2Admin	GVUser
Password	adminGV!	adminGV!	adminK2	userGV!
AppCenter Configuration Manager	Full access	Full access	Full access	Can view

	Windows administrator	Grass Valley product administrator	K2 product administrator	Grass Valley product user
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.

Password changes and compatibility

With currently released products, default accounts and passwords are unified across Grass Valley systems. This includes K2, GV STRATUS, and Aurora products. However, some previous versions of Grass Valley products had default accounts and passwords that were not unified with other Grass Valley products. For example, the Administrator account on previous versions of K2 products had a password of `adminK2`, rather than the unified password of `adminGV!`.

Therefore, when combining newer, currently released Grass Valley products with older, previously released products, you must manage your passwords for system and operational compatibility. Grass Valley recommends the following:

- Ensure that a user account that is the same on all systems has the same password.
- Change all passwords to the newer unified passwords. This applies especially to the Administrator account, where you would change the password on your older systems from `adminK2` to `adminGV!`.
- If your site policies prohibit changing your passwords, then you may change the passwords on your newer systems to match your older systems. In the case of the Administrator account, on your newer systems you would change the password from `adminGV!` to `adminK2`.
- Do not change the password for the internal system account, which by default is `GVAdmin`. The default account must retain the default password of `adminGV!`. Grass Valley applications and services use this account/password for program interactions.

Consider the following as you change passwords:

- SiteConfig provides default credentials for each device type. If you have not overridden these default credentials in SiteConfig, whenever your SiteConfig access requires authentication, SiteConfig uses the default credentials. When you upgrade SiteConfig, it is possible that the newer version of SiteConfig has newer default credentials. If this is the case, authentication can fail when SiteConfig uses the new default credentials to access a device still configured for the old default credentials. Therefore, refer to SiteConfig Release Notes when upgrading and if default credentials change, reconcile by overriding default credentials in SiteConfig as necessary.
- Transfers between K2 systems require that the same user account and password be on both systems. The transfer uses the credentials with which you are logged in to the application initiating the transfer to authenticate the transfer on the other K2 system. If a password has changed and is no longer the same or an account is not present, the transfer fails. Therefore, when initiating transfers use accounts and passwords that are the same on all systems.

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 "K2 Release Notes".

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.

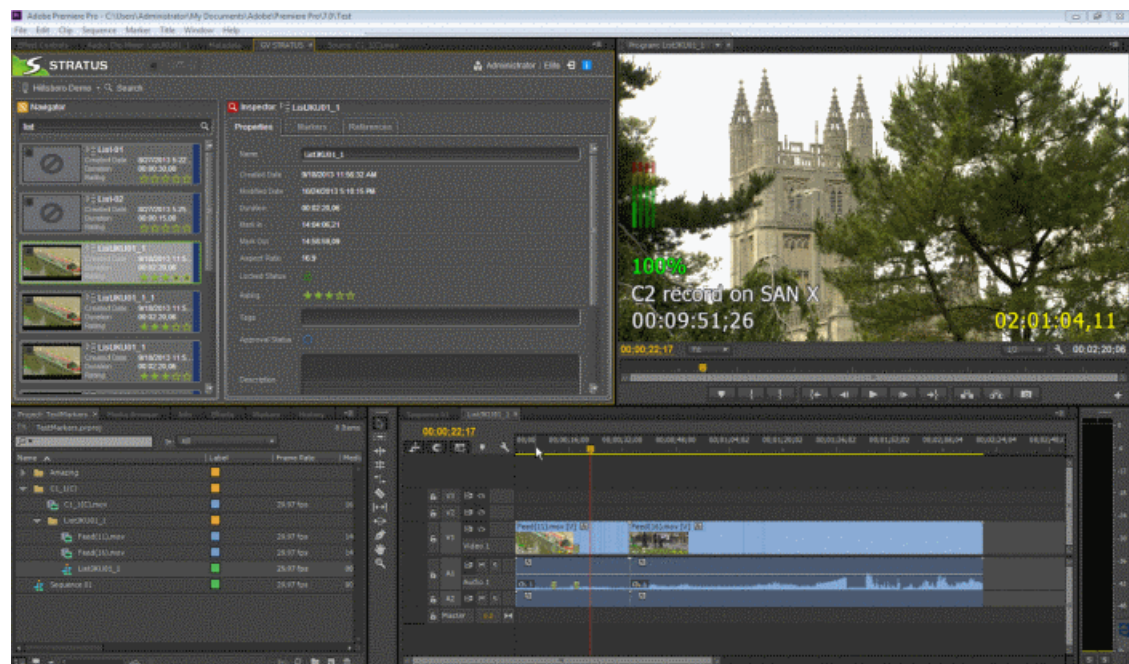
It is possible to also override the default credentials for a single device.

Using the GV STRATUS application in Adobe® Premiere® Pro

You can launch the GV STRATUS application as a plug-in within the Adobe® Premiere® Pro application. This allows you to use GV STRATUS to access assets in the K2 SAN system and consolidate your editing operation in just one workspace.

The GV STRATUS plug-in to Adobe Premiere is available as a Beta version only. Please contact Grass Valley support for information on becoming a Beta site for this functionality.

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 and edit sequences using the Adobe Premiere Pro application.



Setting up K2 storage for Adobe Premiere Pro

Before installing the GV STRATUS plug-in for Adobe Premiere Pro, 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*.
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.

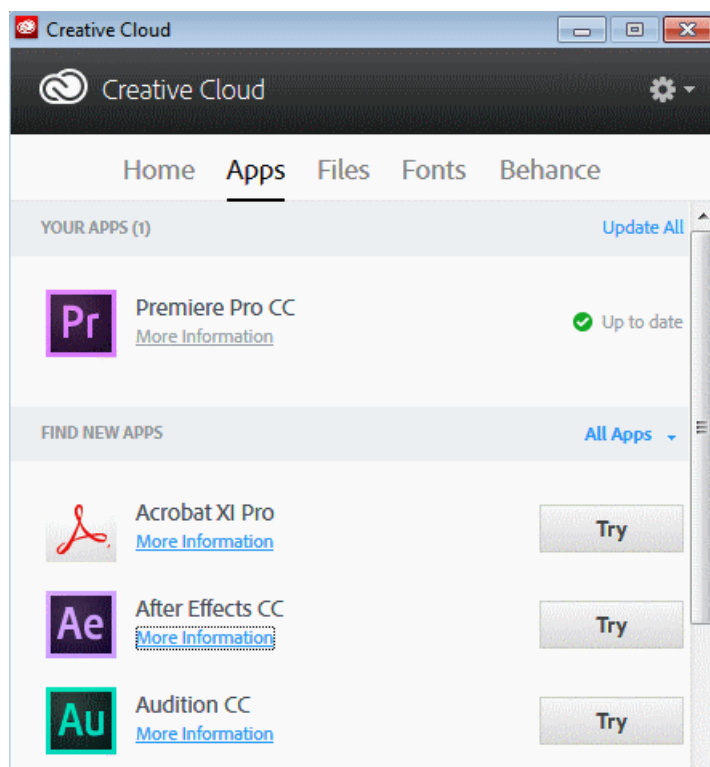
Setting up GV STRATUS in Adobe Premiere Pro

Prerequisites:

- Procure the GV STRATUS extension plug-in file from Grass Valley.
 - Install and configure the GV STRATUS Xcode Control Engine on the GV STRATUS Core server, if it is not already installed and configured. The engine translates the K2 XML information of clips, subclips and sequences to a FinalCut Pro XML format, which is used by the Adobe Premiere Pro application.
 - Set up K2 storage with an *Adobe* directory, as required to support the GV STRATUS plug-in.
1. Install the Adobe Creative Cloud software.
 2. Launch the Adobe Creative Cloud, and select **Premiere Pro CC**.

3. Click the **Install** button.

Premiere Pro CC installs and appears in the **YOUR APPS** list.



4. Launch the Adobe Extension Manager CC application.
5. Select **File | Install Extension**.

The **Select Extension to Install** dialog appears.

6. Browse to select the GV STRATUS extension plug-in file and click **Install**.
7. Launch the Adobe Premiere Pro CC application.
8. Click **Window | Extensions | GV STRATUS**.

The GV STRATUS plug-in appears in the Adobe Premiere Pro CC application.

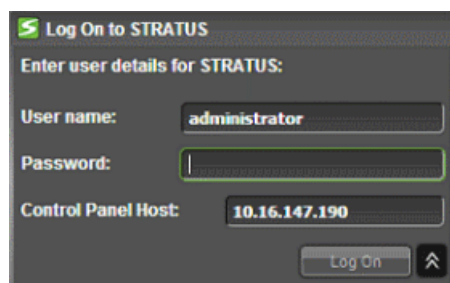
Launching the GV STRATUS plug-in

When you log on, 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. Your credentials must also give you access to all your K2 systems.

1. Launch the Adobe Premiere Pro application.

2. Select **Window | Extensions | GVStratus**.

A GV STRATUS Log On dialog opens.



3. Enter your username.

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.

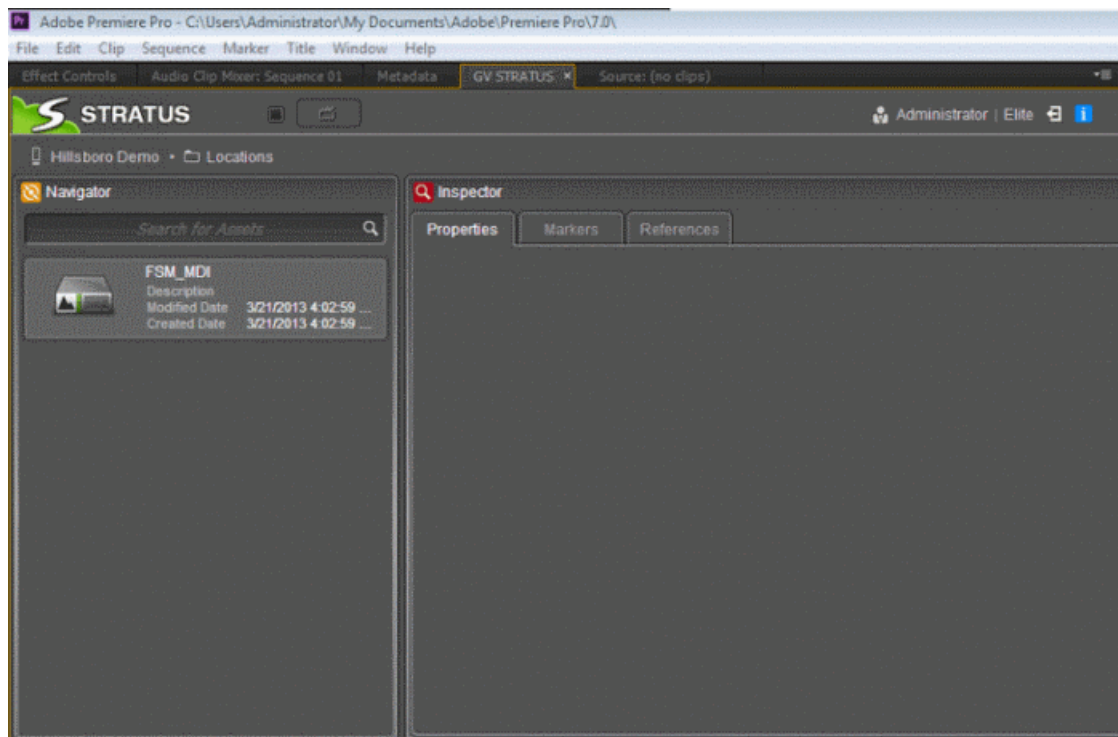
4. Enter your password.

5. 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.

6. Click **Log On**.

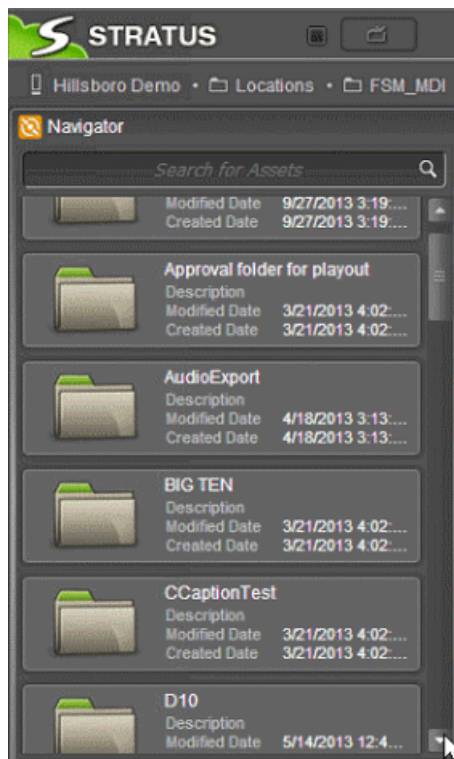
The GV STRATUS plug-in opens.



Navigating assets

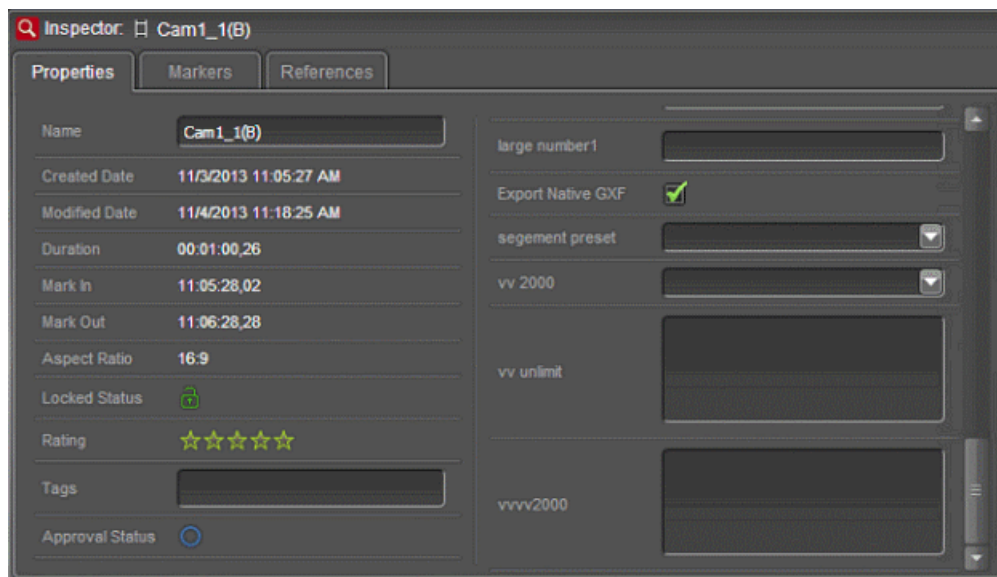
In the GV STRATUS plug-in, you can navigate into bins and sub-bins of the K2 SAN system.

1. Select the K2 SAN system and navigate through its bins.



2. Double-click an asset to view its metadata.

The asset properties display in the **Inspector** panel. You can also view custom metadata of the asset on the Properties tab.

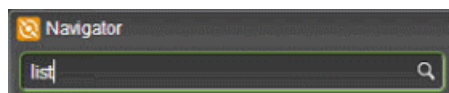


3. Click the **Markers** tab to view markers of the asset.
4. Click the **References** tab to view the list of related assets.

Searching assets


You can search for assets in the K2 SAN system using the Navigator panel in the GV STRATUS plug-in.

1. 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.

2. To start the search, do one of the following:

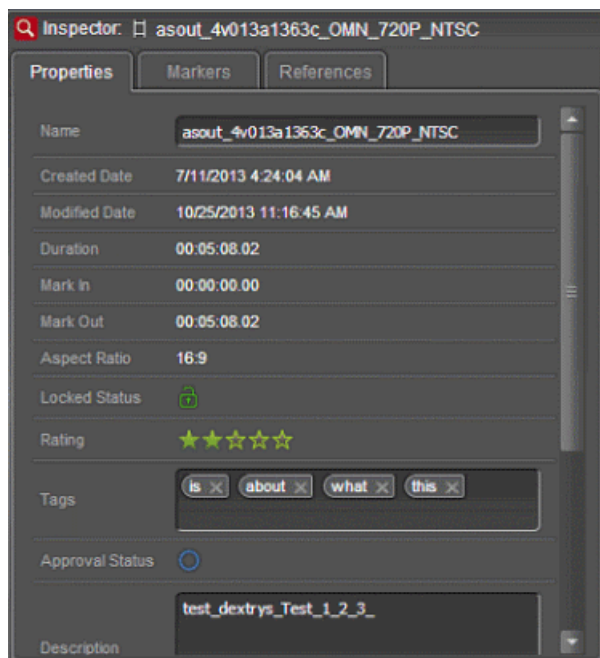
- Press **Enter**.
- Click the **Search** button. 

Assets matching the search criteria are displayed in the Navigator panel.

Modifying asset metadata

1. Select the asset.

The asset properties display in the Inspector panel.




2. Key-in and modify the name, description, and tags of the asset.
3. Click the appropriate icon to modify the locked status and rating of the asset.

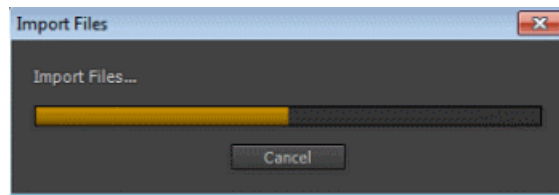
Asset metadata is updated according to your changes.

Importing GV STRATUS assets

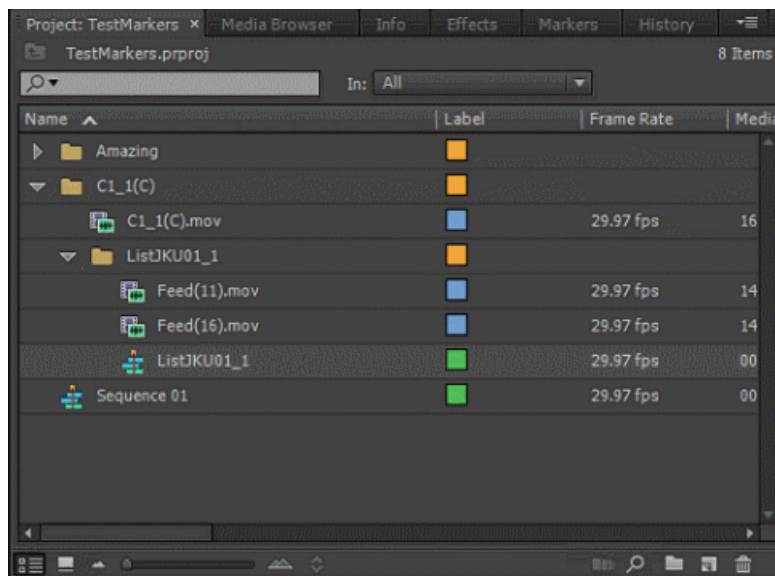
You can import GV STRATUS assets into your Adobe Premiere project to consolidate your editing operation.

1. In the Navigator panel, select the check box for the asset you are importing.
2. Click the Import button  to import the asset.

A dialog box opens to show the progress of the import.



The asset imports into your Adobe Premiere project and appears on the timeline.



Operation considerations

- On the K2/STRATUS system do not exceed the following maximum amounts:
 - Maximum number of assets/bin: 2000
 - Maximum bin depth: 9
 - Maximum number of markers/asset: 100
 - Maximum K2 database size: 80 MB
- If a Dell server that is a GV STRATUS "Engine" server (Proxy Encoder, Conform, XRE) 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.
- At the time of this writing, the following formats are supported as source formats for transcoding by the Harmonic ProMedia™ Carbon (formerly Carbon Coder™) application:
 - DV25/50
 - DVCAM
 - MPEG I-frame
 - MPEG long GoP
 - DVCPRO HD
 - MPEG XDCAM
 - AVC-Intra
 - DNxHD

These formats are supported in PAL and NTSC. This list can change with ongoing product development. Refer to the manufacturer's product information for updates.

- The GV STRATUS Proxy Encoder generates proxy media for high-resolution clips with one video track. Clips with more than one video track are not supported.

Version compatibility

Versions qualified for compatibility with this version 3.1 release 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 32-bit or 64-bit
Microsoft .NET Framework	Version 4.5
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

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 64-bit NOTE: 64-bit required for EDIUS XS
Microsoft .NET Framework	Version 4.5
Other support	DirectX 9 compatible

GV STRATUS high-resolution workstation, and RMI 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 Elite 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 64-bit
Microsoft .NET Framework	Version 4.5
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	Version	Comments
GV STRATUS Application	3.1.0.1029	—
GV STRATUS Control Panel	3.1.0.813	—
GV STRATUS Control Panel Service	3.1.0.619	—
Common Services	3.1.0.242	—
Ingest Services	3.1.0.609	—
GV STRATUS Traffic Gateway Service	3.1.0.191	—
GV STRATUS HTTP Handler	3.1.0.234	—
Core Services	3.1.0.931	—
GV STRATUS Summit Services	3.1.0.931	—
Summit, Generic FTP, FlashNet, and DIVA MDI	3.1.0.931	—
Proxy Encoder	3.1.0.516	—
Conform Engine	3.1.0.298	—
GV STRATUS Workflow Engine	3.1.0.302	—
GV STRATUS Rules Engine	3.1.0.302	—
GV STRATUS Xcode Engine	3.1.0.281	—
GV STRATUS DataMover Engine	3.1.0.203	—
GV STRATUS Event Viewer	3.1.0.156	—
GrassValley_STRATUSClient cab file	3.1.0.61	Contains compatible software install cab files for GV STRATUS client PCs
GrassValley_CoreServer cab file	3.1.0.61	Contains compatible software install cab files for GV STRATUS servers
GrassValley_K2system cab file	3.1.0.61	Contains compatible software install cab files for K2 systems

Compatible Grass Valley products

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

Product	Version	Comments
K2 Summit/SAN system software	9.1.2.1943	With compatible version of SNFS. Refer to "K2 Release Notes".
Aurora Payout	8.1.0.19	—
EDIUS XS	3.1.1739	—
EDIUS Elite	7.3.806	—
K2 FCP Connect	2.3.0.65	—
SiteConfig	2.1.1.563 and higher	—
SiteConfig Discovery Agent	2.0.0.200	—
Grass Valley Prerequisite Files	2.0	Required by SiteConfig to support software installation of Aurora Payout.
K2 Dyno Replay Controller	3.1.0.199 and higher	—
K2 Dyno PA	2.0.2	—
NetCentral	5.2.2.10 and higher	—
K2 TimeDelay	8.1.0.19	—
SabreTooth	2.7.1.6	—
K2 Avid	7.0.0.157	—

Compatible third party products

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

Product	Version	Comments
ENPS Server	7.14.4111	—
ENPS Client	7.14.4111	—
	6.00.0081	—
iNEWS Server/Client	4.6.0.22	—
iNEWS MOS Gateway	4.0.0.3	—
Octopus	6.3.10432.289	—
OpenMedia Server	4.0.1725	—
OpenMedia Client	4.0.3.1724	—

Product	Version	Comments
Harmonic ProMedia™ Carbon (formerly Carbon Coder™)	3.22.02.44547	—
Telestream Vantage™	5.0.35.104702	—
Front Porch Digital DIVArchive software	7.1.1.5	—
SGL FlashNet software	6.4.10	—
Generic FTP	0.9.41	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	—
Avid Media Composer	7.0.2	—

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	Generic FTP
GXF	Yes	Yes	No
MXF	No	No	No

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.

Licensing Aurora Payout

If using Aurora Payout with GV STRATUS, you need the STRATUS-ELITE license installed on the GV STRATUS server with role of Common Services. The Aurora Payout application checks for the STRATUS-ELITE license first, then AURORA-PLAYOUT license in order for you to operate in both GV STRATUS and Aurora environments.

Licensing EDIUS

If using EDIUS XS or EDIUS Elite with GV STRATUS, you need to install EDIUS licenses. These are managed by EDIUS license management, rather than GV STRATUS Sabretooth license management. EDIUS licenses are as follows:

- EDIUS XS: This license is installed on the client PC that hosts the GV STRATUS and EDIUS XS applications.
- EDIUS Elite: This license is installed on the client PC that hosts the GV STRATUS and EDIUS Elite applications.
- EDIUS XRE: This license is installed on the server that hosts the EDIUS XRE Server components.

On client PCs, only one EDIUS license type is supported. Do not install both EDIUS XS and EDIUS Elite 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.

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 ncb00061909	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.
	Workaround:	Create free space in K2 Summit/SAN storage before recording.
DE225, DE627 ncb00061994	Description:	When renaming a bin, if the bin contains one or more clips that are locked or that are currently playing, a new bin with the new name is created while the original named bin containing only the locked or playing clip(s) remains. The original bin is not visible in the Navigator panel.
	Workaround:	Restart the GV STRATUS application. The original bin is now visible in the Navigator panel. Unlock or stop play on the clip, move it to the newly named bin, then delete the original named bin.
DE487 ncb00038625	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.
DE509 ncb00040663	Description:	When renaming a bin that contains more than 1000 assets, no progress is reported and the GV STRATUS application appears to be non-operational. The rename process can take several minutes to complete.
	Workaround:	Wait until GV STRATUS application operation is restored.
DE519 ncb00060430	Description:	A newly available K2 Summit system does not appear in the GV STRATUS application.
	Workaround:	Restart the GV STRATUS application.
DE543 ncb00061357	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	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.
DE954 ncb00074824	Description:	Linking to a placeholder of a scheduled event or a recording event does not work properly if the event is double-clicked or dragged into the Inspector.
	Workaround:	To modify the event and link to a placeholder; make sure you click the Modify Event button, or press the M keyboard shortcut, or right click and select Modify Event .
DE963 ncb00074829	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.
DE975 ncb00074840	Description:	When viewing a subclip in the Inspector panel, the Relationships tab can display markers/keywords that are in the subclip's parent clip but that are outside of the subclip.
	Workaround:	View the markers/keywords on the scrub bar to determine those in the subclip.
DE992 ncb00074841	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	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.
DE1082 ncb00074823	Description:	Even when the system is not correctly configured to regenerate proxy, it is still possible to select the Regenerate Proxy feature and no error is displayed.
	Workaround:	Make sure that each Summit MDI is configured as a source MDI in a Proxy Encoder MDI.
DE1127 ncb00074792	Description:	A deleted or renamed Summit location (MDI) appears in Navigator.

	Workaround:	Run the <code>delete-old-mdi.sql</code> script on the GV STRATUS Core server to remove the previous name of the MDI from Navigator, as follows: <ol style="list-style-type: none"> 1. Stop the GV STRATUS Rules Wizard service. 2. Open the script in a text editor and change the second line so that it reads <code>set @oldMdi = N'mdiName</code> where <code>mdiName</code> is the previous name of the MDI. 3. Run your modified version of the script. <p>NOTE: Make sure to select MediaFrame, not Master.</p> <ol style="list-style-type: none"> 4. Start the GV STRATUS Rules Wizard service.
DE1208 ncb00074830	Description:	Web Monitors in STRATUS do not play video or audio with 64-bit Adobe Flash Player.
	Workaround:	Download and install the 32-bit version of Adobe Flash Player "for Other Browsers".
DE1281 ncb00074834	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	Description:	Renaming a bin removes the bin from the Favorites node.
	Workaround:	Add the renamed bin to the Favorites node again.
DE1339 ncb00074847	Description:	Proxy media is not available for AVCHD (H.264) assets.
	Workaround:	View and edit AVCHD on a high-resolution GV STRATUS client. Proxy not supported for AVCHD.
DE1670 ncb00075558	Description:	Can not delete an entire asset if the asset is loaded in Inspector.
	Workaround:	First unload the asset from Inspector, wait five seconds, then delete the asset.
DE1692 ncb00075559	Description:	A "... connection actively refused..." error message appears in GV STRATUS Event Viewer if there is a space in an MDI name, as configured in GV STRATUS Control Panel.
	Workaround:	Do not use spaces in MDI names.
DE1848 ncb00075562	Description:	Can not create sub-clips from K2 Dyno record train loaded into Inspector.
	Workaround:	Use K2 Dyno and create highlights.
DE1878 ncb00075564	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	Description:	A change to the router source is not shown in Scheduler tool.
	Workaround:	Restart the GV STRATUS application after changing the router source.
DE2119 ncb00075571	Description:	An archive system directory does not persist as a Favorite. After GV STRATUS is restarted, you can not access the archive directory via the Favorite.
	Workaround:	Do not make a directory from an archive system a Favorite.
DE2180 ncb00075574	Description:	A playlist can not be played after it is transferred to a stand-alone K2 Summit.
	Workaround:	Transfer the playlist using a Send Destination configured to conform on send. This results in a flattened clip at the destination, not a playlist
DE2185 ncb00075577	Description:	Trimming an archived asset produces unreliable results.
	Workaround:	Once an asset has been archived, do not attempt to trim it. Archived assets can not be trimmed.
ncb00041093	Description:	Live streaming can fail when the K2 Summit system's IP address is changed.
	Workaround:	On the K2 Summit system navigate to <i>v:\live streaming</i> and use Notepad or a similar text editor to open a <i>*.sdp</i> 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 <i>*.sdp</i> files in the directory and restart the K2 Summit system.
DE2328 ncb00059649	Description:	Shortcut keys to load saved workspaces (specifically Ctrl+1, Ctrl+2, Ctrl+3 and Ctrl+4 keys) do not work in the STRATUS ActiveX plugin within ENPS.
	Workaround:	Click Window Workspace to select and load your saved workspace. Other shortcut keys such as Ctrl+0, and Ctrl+5 till Ctrl+9 keys do work as they are not used by the ENPS application.
DE2595 ncb00076110	Description:	After renaming a GV STRATUS Core server, there are no thumbnails displayed in an Asset List for existing assets.
	Workaround:	None
DE2709 ncb00076221	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	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	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	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.
DE3241 ncb00076634	Description:	A subclip cannot be created from an asset that has multiple high-resolution associations. These associations occur as a result of copying assets between different K2 storage locations.
	Workaround:	Copy the asset to the K2 storage location from which you are making the subclip.
DE3363 ncb00076224	Description:	After the RMI import of a trimmed Long GOP clip, the timecode does not always display correctly in the Properties section of Inspector.
	Workaround:	Always use the timecode display on the Player of the Inspector, if there's a slight difference with the timecode display in the Properties section.
DE3390 ncb00076222	Description:	After upgrading software, Proxy Encoder or Conform Engine operations can fail.
	Workaround:	<p>Workaround 1:</p> <ol style="list-style-type: none"> 1. In SiteConfig, uninstall and reinstall the Encoder or Conform cab file. 2. Restart both the GV STRATUS Core server and the Conform Server or Proxy Encoder. <p>Workaround 2:</p> <ol style="list-style-type: none"> 1. On the Conform Server or Proxy Encoder, open the iSCSI Initiator. To open, type into search bar in Windows desktop Start menu. 2. Click the Volumes and Devices tab. 3. Click Auto Configure. 4. Restart the Conform Server or Proxy Encoder.
DE3459 ncb00076388	Description:	"Media Not Available" displayed in Source Viewer when dragging two clips of the same format from the RMI tool to Source Viewer for preview.
	Workaround:	Preview one clip at a time.
DE3542 ncb00076390	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.

DE3543 ncb00076633	Description:	A new asset name is not displayed in the GV STRATUS application if renamed using the Rename Automatically feature in an asset transfer operation. Instead, the original asset name is displayed, as if the asset is not renamed.
	Workaround:	To see the new asset name, view the asset in K2 AppCenter.
DE3571 ncb00076391	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	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 fewer than four audio tracks, which creates empty tracks that are not compatible with the export format.
	Workaround:	Ensure clips have four or more audio tracks.
DE3853 ncb00076397	Description:	Removing channels in feed ingest configuration with future events still scheduled on that channel will cause the events to start recording on other channels when they reached the event start time.
	Workaround:	Remove all future events that have been scheduled before removing the channel.
DE3946 ncb00076424	Description:	A list containing DNxHD format cannot be processed by the GV STRATUS Conform Engine.
	Workaround:	None.
DE4169 ncb00076516	Description:	A list containing mixed formats cannot be processed by the GV STRATUS Conform Engine. A mixed format list is one with two or more of the following: 720p; 1080i; SD.
	Workaround:	None.
DE4288 ncb00076828	Description:	Misleading "Deleted successfully" message appears after a delete attempt of placeholder with the "Protected" property.
	Workaround:	None. The placeholder is not deleted.
DE4350 ncb00076831	Description:	A shared proxy folder is not created on the GV STRATUS Express Server after the proxy configuration is saved for the first time.
	Workaround:	Create the shared proxy folder manually.
DE4389 ncb00076566	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.
DE4391 ncb00076634	Description:	Misleading "Failed to connect to Gv Services..." message appears in log when logging on to the GV STRATUS Control Panel application.

	Workaround:	If the log on operation succeeds, ignore this message.
DE4576 ncb00076634	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 "GV STRATUS User Manual".
	Workaround:	Do not delete an asset with multiple high-resolution associations if you want to retain one or more of the high-resolution associations.
DE4577 ncb00076634	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.
DE4705 ncb00076827	Description:	The host application of GV STRATUS Plug-in becomes inoperable at the first launch. This is applicable to ENPS, iNEWS, Octopus, OpenMedia, Aurora Payout, and EDIUS XS applications.
	Workaround:	Right-click on the host application at Start Menu, and select Run as administrator when you launch it for the first time.
DE4710 ncb00076822	Description:	The GV STRATUS Plug-in appears as a blank screen during the EDIUS XS launch.
	Workaround:	None.
DE4755 ncb00076634	Description:	When installing the GV STRATUS application with SiteConfig, an "Error 1722: There is a problem with this Windows Installer package..." message appears and the installation fails.
	Workaround:	Install <code>vc_redist_x64.exe</code> on the client PC manually, then install the GV STRATUS application with SiteConfig.
DE4912 ncb00076821	Description:	Scheduler becomes inoperable when a router destination is modified in the GV STRATUS Control Panel.
	Workaround:	None.
DE4916 ncb00076820	Description:	Scheduler cannot record clips on a multi-camera channel.
	Workaround:	None.
DE5049 ncb00076737	Description:	Linked placeholders cannot be dragged from GV STRATUS and dropped into Aurora Payout channels after a failover.
	Workaround:	Restart the Aurora Payout application.
DE5183 ncb00076807	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.

DE5230 ncb00076806	Description:	A Conform job fails when conforming to an AVCHD format.
	Workaround:	Conform to other formats.
DE5250 ncb00076805	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.
DE5253 ncb00076804	Description:	In a subclip, a keyword is missing or appears as a marker. This can occur on subclips (highlights) created on a connected K2 Dyno Replay Controller.
	Workaround:	View on the K2 Dyno Replay Controller.
DE5301 ncb00076803	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.
DE5323 ncb00076819	Description:	The GV STRATUS Ingest DB service does not start after restoring STRATUS Database from the backup.
	Workaround:	<ol style="list-style-type: none"> 1. On the GV STRATUS Core server, open Microsoft SQL Server Management Studio. 2. In the tree-view, open the Databases node. 3. Right-click on the ISDB database, and click Properties. 4. Select the Options page. 5. Go to Service Broker settings, set Broker Enabled to True. 6. Start the GV STRATUS Ingest DB service and the GV STRATUS Ingest Core service.
DE5394 ncb00076829	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".
DE5478 ncb00077018	Description:	SiteConfig fails to install K2Server software due. On the K2 Media Server on which the software is to be installed, a "...can't verify the publisher of this driver software" security warning appears. This occurs on a system that has been recently reimaged using a generic system image.

	Workaround:	To avoid the error, when reimaging, follow the procedure documented in "K2 SAN Installation and Service Manual". If already reimaged, install the K2Server software manually (not using SiteConfig) and when the security warning appears click "Install this driver software anyway".
DE5494 ncb00077019	Description:	When configuring Proxy Config settings in GV STRATUS Control Panel a "could not connect to the GVHttpHandlerService..." or "500 Internal server" error appears. This occurs when Grass Valley Embedded Security (McAfee) blocks a file.
	Workaround:	<p>You must have access to the system that is running the GV HTTP Proxy Server service. Depending on your system design, this is a GV STRATUS Express server, a Proxy server, or a Proxy Storage file system server. You must also have access to the system that is running the GV STRATUS Control Panel.</p> <ol style="list-style-type: none"> 1. On the system that is running the GV HTTP Proxy Server service find the Application Event Log at Computer Management Event Viewer Windows Logs Application. 2. Identify an error from the source "McAfee Solidifier." 3. In one of the errors locate a description similar to "McAfee Solidifier prevented unauthorized execution of 'C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Temporary ASP.NET Files\gvhttphandlerservice\..." 4. Make a note of the file referenced in the description. This is the file blocked by McAfee. 5. On the system that runs the GV HTTP Proxy Server service, put Embedded Security in Update mode and do the remaining steps. 6. On the system that runs the GV HTTP Proxy Server service, run <code>iisreset</code> in the command prompt. 7. At the command prompt verify that IIS stops and restarts. 8. On the system that runs the GV HTTP Proxy Server service, delete the path <code>C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Temporary ASP.NET Files\gvhttphandlerservice\.</code> 9. On the system running the STRATUS Control Panel, save the Proxy Config settings changes. 10. On the system that runs the GV HTTP Proxy Server service, for Grass Valley Embedded Security, leave Update mode.
DE6387 ncb00077035	Description:	A transfer or delete rule deletes proxy media only, rather than the entire asset. This occurs when the Frequency setting is Metadata Change .
	Workaround:	Change the Frequency setting to Periodically Every 1 minute .
DE6576 ncb00077042	Description:	The paste operation is sometimes not available when attempting to copy/paste assets between storage locations.
	Workaround:	Use the Copy To feature instead.

DE6605 ncb00077068	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.
DE6761 ncb00077095	Description:	When conforming a list to a LongGOP format, the timecode at the end may be up to 7+ frames off. This can cause a checkerboard pattern in the EDIUS XS player.
	Workaround:	Regenerate the proxy to avoid the checkerboard pattern showing in EDIUS XS, and to correct the timecode.
DE6777 ncb00077096	Description:	The 1440x1080, MPEG LongGOP Chroma 4:2:0, with 25 Mb/s format fails to conform for both PAL and NTSC reference standards.
	Workaround:	Use a bit rate of either 18Mb/s or 35 Mb/s.

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