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VERTIGO SUITE V4.9 GA

Release Notes

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Revision History

After the original release date, these release notes may be updated with edits and then re-released. The following table tracks the versions of this document.

Revision date	Description
March 31, 2014	Original release
May 15, 2014	<ul style="list-style-type: none">Updated the supported operating systems listed on page 3-3 and page 5-1.
January 29, 2016	<ul style="list-style-type: none">Updated the supported versions of the Imagestore 750, LGK-3901 and DSK-3901 on page 5-1.Rebranded the document by changing references to Miranda Technologies to Grass Valley.Updated the formatting and content of the cover page, Copyright and Trademark Notice, and the Terms and Conditions sections.

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1 INTRODUCING VERTIGO SUITE v.4.9 GA

Vertigo Suite v.4.9 GA is a major release and full version of the Vertigo Suite software. These release notes describe the new features and capabilities of the Vertigo Suite v.4.9. Installation and upgrade procedures are also provided in this document.

The Vertigo Suite consists of a set of powerful applications for creating, managing, and playing out real-time, dynamic broadcast graphics. Designed to provide an end-to-end solution for a variety of broadcast applications, the Vertigo Suite is built around a modular and open architecture, allowing the system to scale up from a single user to hundreds of users in multiple locations.

Typical applications of the Vertigo Suite include data-driven broadcast graphics, centrally managed graphics, newsroom graphics, multi-channel graphics, sporting events, election coverage, digital signage, and more. The Vertigo Suite is the content automation engine behind many of today's most sophisticated and demanding television productions and is currently used in 24x7 branding and production environments around the world.

2 WHAT'S NEW?

The following sections provide details about the new features, enhancements and bug fixes that were addressed since the previous release of the Vertigo Suite software.

- ["New features" on page 2-2](#)
- ["Feature enhancements" on page 2-5](#)
- ["Bugs fixed in this release" on page 2-6](#)

New features

The table below identifies the new features that have been added to Vertigo Suite v.4.9 GA applications and hardware devices.

New features in v.4.9 GA	
Item #	Description
S-03065	<p>Xplorer: Asset size information now displayed in Detail view</p> <p>Xplorer's Detail view now includes the Size column which displays the asset's file size. In previous versions, you had to right-click and select PROPERTIES for this information to be displayed.</p>
VXM-2	<p>Xmedia Server: Media can now be transferred between Xmedia Servers using MOS Redirection</p> <p>Using a MOS Protocol based technique called MOS Redirection, Xmedia Servers work with the ENPS Newsroom Computer System (NCS) to transfer stories and their associated media between local and remote Xmedia Servers.</p> <p>See the "Xmedia Server Configuration Guide" for more information.</p>
VXM-4	<p>After Effects Plug-in: The ability to ingest the VAF portion of a OXI-Embedded VAF into specified Xmedia Servers, while the After Effects Plug-in is generating the OXI-Embedded VAF</p> <p>This new functionality requires the Merge List file (.xls) to have three new columns:</p> <ul style="list-style-type: none"> • VERTIGO TEMPLATE: Specifies the name and location of the base Template that the VAF uses when loaded on the XG layout devices. • VERTIGO TEMPLATE ELEMENT: Specifies the name of the template element that holds the VAF when the template is loaded. • VERTIGO TEMPLATE ELEMENT: A comma separated list of Xmedia Server IPs or names that represent where the target Xmedia Servers are defined. <p>See the "Vertigo After Effects Plug-in User Manual" for more information.</p>
VXM-6	<p>Xplay: Scroll cued and on-air elements on device into view</p> <p>When playing out a playlist, the playlist's default behavior is to scroll and show the most recently taken element. If in a multi-device setup and many consecutive takes are made on the same device, the cued and on-air elements on other devices may scroll out of view.</p>

VXM-6 continued	<p>It is now possible to select a device and scroll so that the cued and on-air elements on that device scroll into view. This is particularly useful when you want to begin taking items on that device.</p> <p>To enable this feature, right-click the device name on the right-side of Xplay and select the SCROLL INTO VIEW menu command.</p> <p>Note: If both the cued and on-air elements cannot be visible at the same time because they are too widely spaced, then the cued element is made visible. If there is no cued or on-air element on the chosen device, no scrolling is performed.</p>
VXM-8	<p>Xplay: New Actions commands (with keyboard shortcuts) have been added for common control actions on up to 8 devices</p> <p>Xplay's ACTIONS menu now features a set of new submenu commands for performing the following actions on up to 8 devices:</p> <ul style="list-style-type: none"> • CUE ON DEVICE • TAKE ON DEVICE • SKIP MULTI TAKES ON DEVICE • CLEAR ON DEVICE • SCROLL INTO VIEW ON DEVICE <p>Each of the above commands expands and allows you to specifically select which device to perform the action on. If the device requested in the action does not exist, no action is performed.</p>
VXM-9	<p>Xplay: A new menu command has been added to the Tools menu to enable or disable GPI inputs</p> <p>Xplay's TOOLS menu now features the ENABLE GPI command, which can be used to enable or disable GPI inputs to Xplay.</p>
VXM-10	<p>Xplay: A new setting has been added to allow only one instance of Xplay to run at a time</p> <p>The GENERAL section of Xplay's Settings has a new option called ONLY ALLOW ONE INSTANCE. By default this option is unchecked (disabled) and multiple instance of Xplay can run simultaneously.</p> <p>When the ONLY ALLOW ONE INSTANCE option is checked, only one instance of Xplay may run at a time. If an attempt to launch a second Xplay is made, a message box appears and informing you to exit this instance of Xplay before opening another.</p>
VXM-17	<p>Xmedia Server: A preliminary REST Interface has been added to the Xmedia Server</p> <p>A preliminary REST Interface has been added to the Xmedia Server. Presently, the only function provided by the Xmedia Server REST interface is to provide thumbnails of Pages and Clips that are displayed in the ENPS client application.</p>

VXM-29	<p>Xplay: Support for a postfix or prefix to be appended to playlist element names in Oxtel commands on the main device</p> <p>When the selected protocol in the Xplay Automation Configuration dialog is OXTTEL OVER TCP/IP or OXTTEL OVER SERIAL, the PROPERTIES pane contains the Use Postfix check box and the SELECT DEVICE POSTFIX/PREFIX options which can be used to specify the postfix or prefix that is appended to playlist element names when sending Oxtel protocol commands to the main device (as opposed to a forwarded device). See the “Xplay User Manual” for more information.</p>
VXM-35	<p>Xplay: Changes have been made to the Playout page in Xplay’s Settings.</p> <p>The FOLLOWDEVICE option has been added to Xplay’s PLAYOUT > MANUAL SCROLL STYLE setting and is used in conjunction with the new MANUAL SCROLL DEVICE setting. When FOLLOWDEVICE is selected and a manual Take, Skip Multi-Takes or Clear is executed, the playlist scrolls such that the cued and on-air elements on the device specified in the MANUAL SCROLL DEVICE setting are visible. Note that if the MANUAL SCROLL DEVICE setting is blank, then the element at the arrow is scrolled into view. If the MANUAL SCROLL DEVICE setting contains an unrecognized device name, no scrolling is performed.</p> <p>The following AFD related settings have also been moved from Xplay’s Settings PLAYOUT page to a new Xplay>AFD page:</p> <ul style="list-style-type: none"> • ENABLE XG OUTPUT AFD MONITORING • ENABLE XG INPUT AFD MONITORING • XG INPUT AFD SOURCE TYPE • XG INPUT AFD SOURCE CLIOBJECT NAME

Feature enhancements

The table below identifies enhancements that have been made to existing Vertigo Suite features and functionality.

Feature enhancements in Vertigo Suite v.4.9 GA	
Issue #	Description
VXM-15	<p>Xstudio: The Asset Browser's command for manually publishing assets to all associated devices has been reordered in the menu</p> <p>The Asset Browser's PUBLISH TO > ALL ASSOCIATED DEVICES command has been reordered to appear in the upper portion of the context menu (just under CONNECTED DEVICES).</p>
VXM-39	<p>After Effects Plug-in: The standard Vertigo Suite logging settings are now used by the After Effects Plug-in</p> <p>The After Effects Plug-in's LOGGING tab (EXPORT OPTIONS dialog) has been updated to use the standard Vertigo Suite logging settings: ROLLOVER COUNT and LOGFILE MAX SIZE (in Bytes). The LOG FILE LOCATION and ENABLE LOGGING from previous versions have been removed.</p> <p>The log files now appear in the standard log folder where all Vertigo logs go. Every execution of the After Effects Plug-in appends to the most recent After Effects Plug-in log file until it reaches the size specified in the setting, at which point it will rollover and create a new file.</p>
VXM-98	<p>Xmedia Server: Additional MOS logging can now be enabled on the Xmedia Server Control Panel</p> <p>The Xmedia Server's MOS communication with ENPS is already recorded in the log file (<code>vxmos.log</code>) and can be configured on the Xmedia Server Control Panel's MOS tab.</p> <p>However, additional MOS logging can now be enabled on the Xmedia Server Control Panel's Logging tab. The MOS setting has been added to the Debug Categories and is intended to be used in parallel with the new MOS Redirection. When the MOS setting is checked, MOS Redirection activities inside the Xmedia Server are logged to the Xmedia Server log file.</p>

Bugs fixed in this release

In our effort to continuously improve the Vertigo Suite, we encourage our users to provide us with feedback regarding any feature requests or defects encountered. The table below features a selection of user-reported defects and requests that were resolved in this release.

Bugs fixed in v.4.9 GA	
Defect #	Description
VXM-24	<p>Xplay: Double-clicking a playlist element fails to execute a General Cue if that same element was already cued</p> <p>The desired behavior in such a case would be for a General Cue to be executed because it would move the arrow to the clicked element and affect the elements cued on other devices.</p> <p>Changes have been made so that double-clicking the playlist element now executes the General Cue, even if the element is already cued. This behavior is consistent with selecting a cued element and pressing F2, which also executes the General Cue.</p>
VXM-26	<p>Xplay: A cue invoked using PlayListCmd does not perform a general Cue when in the per-device layout</p> <p>The <code>PLAYLISTCMD</code> object in the Producer API offers the following commands to cue a playlist element:</p> <ul style="list-style-type: none"> • <code>CUE</code> • <code>CUEBYRECALLID</code> • <code>CUEBYLOCATION</code> • <code>CUEREMOTECTL</code> <p>Previously, if Xplay was configured using the per-device playlist layout, then these commands would not send a General Cue (as opposed to Manual cue) to the playlist even when specified in the parameters. This was inconsistent with the behavior in other playlist layout modes. Now, these commands send a General Cue to the playlist when specified in the parameters.</p>
VXM-27	<p>Xmedia Server: Ingesting images could crash the Xmedia Server</p> <p>In some cases, ingesting images caused the Xmedia Server to crash. This issue has been resolved.</p>
VXM-28	<p>Xnews: Opening a second instance of Xnews in the same application causes Xnews to be unusable</p> <p>Xnews does not support opening more than one instance at a time in the same application. Previously, if a second instance of Xnews was opened, it would not be usable. Now, if an attempt is made to open a second instance of Xnews, a warning message is displayed asking you to close that instance.</p>

VXM-30	<p>File Ingest Server: Ingesting a TGA Sequence may fail when converting the TGA sequence to OXI/OXA</p> <p>When converting a TGA sequence to OXI/OXA, the TOTALPIXEL tag was not calculated correctly. The File Ingest Server allocated memory based on this value. When the value became too big, it caused the ingest to fail.</p> <p>To resolve this issue, the TOTALPIXELS tag for OXI/OXA files is now calculated as the sum of width*height of every frame rather than max_width*max_height*num_frames.</p>
VXM-37	<p>Vertigo Suite: Vertigo applications may crash on startup when certain fonts are installed</p> <p>Vertigo Suite applications (Xplorer, Xstudio, Xplay, etc.) that load fonts may crash on startup if certain fonts are installed. The fonts causing this problem are true type fonts where the OS2 table in the font metadata was smaller in size than is customary. The specific fonts that caused the problem were:</p> <ul style="list-style-type: none"> • Reducto Condensed (REDU4.TTF) • Wanted Poster SSi (WANTED.TTF) <p>This problem has been resolved.</p>
VXM-90	<p>Xmedia Server: The Xmedia Server's publish queue would stop processing items</p> <p>Items in the Xmedia Server's publish queues were sometimes seen accumulating and not being published. A temporary workaround was to transfer the items to another publish queue for them to be published. This workaround is no longer necessary as the original problem has been resolved.</p>
VXM-103	<p>Xstudio & Xplorer: Unable to publish a category or asset to Vertigo XG devices using the Publish to > All Associated Devices command</p> <p>In Xstudio and Xplorer, the Publish to > All Associated Devices command allows you to select an asset or category and publish it to all auto-publish devices as indicated by the Category properties. An internal error in the categorization of the assets was causing the publish to fail. This problem has been resolved.</p>
VXM-104	<p>Vertigo XG: When playing back VAF files, random rendering artifacts appeared in below the video</p> <p>When rendering VAF files, the Vertigo XG was unintentionally introducing random artifacts into the lower portion of the video. This problem has been resolved.</p>

3 INSTALLATION AND UPGRADE PROCEDURES

General information about the Vertigo Suite installer, network requirements and licensing are provided in the following sections:

- [“An overview of the Vertigo Suite’s Setup Wizard” on page 3-2](#)
- [“Vertigo Suite network requirements” on page 3-4](#)
- [“Acquiring and validating licenses” on page 3-13](#)

There are three (3) scenarios in which you would want to install Vertigo Suite v.4.9 GA:

- **New Vertigo installations on a client workstation** – The Vertigo Suite software is not currently installed on the computer and you would like to install the Vertigo Suite v.4.9 software. See [“New installation of the Vertigo Suite on a client workstation” on page 3-5](#) for information and instructions.
- **Upgrade from previous Vertigo Suite release to v.4.9** - You want to upgrade your workstation or playout device from a previous Vertigo release (e.g. v.4.8) to the most recent version of the Vertigo Suite v.4.9 software. See [“Upgrading a workstation or hardware device from v.4.x to v.4.9 GA” on page 3-9](#) for complete information and instructions.
- **Install or update the XG rendering software on an iTX playout server and/or the VertigoXG Plugin on the computer hosting iTX Desktop** - You want to integrate the XG graphics rendering capabilities into an iTX playout server and iTX Desktop. See [“Installing or updating the XG rendering software on an iTX Playout Server” on page 3-11](#) and [“Installing the VertigoXG plugin on the iTX Desktop” on page 3-12](#) for complete information and instructions.

An overview of the Vertigo Suite's Setup Wizard

The **VERTIGO XMEDIASUITE SETUP WIZARD** (figure 3-1) is an all-in-one installer that guides you through the process of installing or upgrading the Vertigo Suite software on a client workstation or hardware device.



Figure 3-1. The Vertigo XmediaSuite Setup Wizard

The Setup Wizard's on-screen instructions describe each step of the installation/upgrade process. Some of the installation steps require you to make some decisions, like:

- Accepting Grass Valley's License agreement
- Selecting the directory where Vertigo Suite v.4.9 will be installed
- Determining which Vertigo components to install:
 - Preset Vertigo (standalone) applications
 - Complete Vertigo Xmedia Suite
 - Custom set of components

The Setup Wizard also automatically runs through the installation or update of services and applications that it depends upon, like:

- SQL Server Express 2008
- Apple Quicktime 7
- Microsoft .net Framework
- Visual Studio C++ Runtime/Updates
- Visual Basic Runtime/Updates

NOTE

The **Vertigo XmediaSuite** installer also supports an unattended (silent) mode for automated remote installations on client workstations with minimal visual output and no reboot. See "[Vertigo Suite's unattended deployment](#)" on [page 3-7](#) for more information.

Accessing and launching the Vertigo XmediaSuite Setup Wizard

There are two (2) ways of accessing the executable files that launch the **VERTIGO XMEDIASUITE SETUP WIZARD**:

Vertigo Suite DVD package

1. Insert the **VERTIGO SUITE SOFTWARE AND USER DOCUMENTATION DVD** into the client machine's DVD ROM.
2. Navigate to the executable file.

Vertigo Software Downloads

1. Open an internet browser on the client machine and navigate to the Vertigo Suite software downloads section (Support > Downloads > Broadcast Products > Graphics) of the Grass Valley website (www.grassvalley.com).
2. Select **Vertigo Suite v.4.9 > GA (General Availability)** and then select one of the following two (2) versions of the Setup Wizard:

Installer (32 bit)	This version of the Vertigo Suite v.4.9 GA is intended to be installed on computers running one of the following operating systems: <ul style="list-style-type: none"> • Windows XP SP3 and later • Windows XP Embedded SP3 • Windows Server 2003 SP2 • Windows 7
Installer (64 bit)	The version of the Vertigo Suite v.4.9 GA is intended to be installed on computers running the Windows 7 (64 bit) or Windows Server 2008 operating systems. Note that this version does not provide 32-bit support.

NOTE

Vertigo Suite v.4.9 GA cannot be installed on computers running **Microsoft Windows 2000, Microsoft Windows Vista or Windows Server 2003 (64 bit)**.

NOTE

Before installing the Vertigo Suite v.4.9 GA on a machine running Windows 7, you must disable (turned off) User Account Control (UAC). UAC is a Windows 7 security component that unfortunately prevents some Vertigo Suite components (i.e. codecs) from installing and functioning properly.

Vertigo Suite network requirements

Most Vertigo Suite applications and devices must be actively connected via the network to the Xmedia Server to access the database, licenses, and other services. All connections used by the Vertigo Suite v.4.9 GA are over TCP and UDP, using the configurable range of ports listed below.

Application	Port #	Description	Protocol
Xmedia Server	14050	Primary connection	TCP
Xmedia Server	14051	Back channel	TCP
Xmedia Server	14052	Publishing back channel	TCP
DataServer	14060	Primary connection	TCP
DataServer	14070 - 15000	Back channel	UDP
Xpublish Agent	15000	Publishing port	TCP
Xmedia Server	10540	MOS low port	TCP
Xmedia Server	10541	MOS high port	TCP
Vertigo XG & Intuition XG	4000	Primary connection	TCP
Vertigo XG & Intuition XG	4001	Secondary connection	
XG Dashboard	5000 - 5010	Configuration control ports	TCP
Xmedia Server	15098 & 15099	Discovery port	UDP

It is recommended that the Xmedia Server be installed on a dedicated LAN, using the existing security infrastructure. A qualified system administrator should verify that the setup follows the organization's security standards.

Specific recommendations regarding proper virus protection strategies, that won't compromise performance, can be obtained by contacting Grass Valley Support.

NOTE

To read Excel spreadsheets, the Vertigo After Effects plug-in must be installed on a machine running a 64 bit operating system with Microsoft Office x64 (for the ODBC drivers). Both Adobe CS (64 bit) and Microsoft Office (64 bit) must also be running on the same system.

New installation of the Vertigo Suite on a client workstation

Vertigo Suite v.4.9 applications can be installed and run on any client PC that is on the same network as the Xmedia Server and respects the following system requirements:

Vertigo Suite Client Platforms	Processor	Operating System	Memory
Minimum requirements for general usage	Intel Pentium 4 or equivalent	Windows XP professional SP3	1 GB RAM
Recommended requirements for general usage	Intel® Core™2 Duo Processor E6600 (2.4 GHZ) or faster	Windows 7 (64 bit)	2 GB RAM

NOTE

Vertigo Suite v.4.9 GA cannot be installed on computers running **Microsoft Windows 2000** or **Microsoft Windows Vista**. Also, note that the Vertigo Suite v.4.9 must be installed and run only on the physical computer, not on a virtual PC.

There are two (2) methods for installing the Vertigo Suite v.4.9 GA software on a client workstation:

- **Using the Vertigo XmediaSuite Setup Wizard** - Using the Vertigo Suite's Setup Wizard allows you to manually install the Vertigo Suite's software while on-site. See ["New installations using the Vertigo Setup Wizard" on page 3-6](#) for information and instructions.
- **Using the Vertigo Suite's silent installer** - Using an unattended (silent) installer for automated remote installations. See ["Vertigo Suite's unattended deployment" on page 3-7](#) for information and instructions.

NOTE

If SQL 2008 is already installed on the computer, the **VERTIGO XMEDIASUITE SETUP WIZARD** will not attempt to reinstall it. As a result the Xmedia Suite database will not automatically be installed, and you will have to install it manually,

New installations using the Vertigo Setup Wizard

The following information and instructions relate to performing a first-time installation of the Vertigo Suite software on a workstation computer using the **VERTIGO XMEDIA SUITE SETUP WIZARD**.

NOTE

If the Vertigo Suite software has already been installed on the computer and you would like to update or upgrade your system from a previous release, please refer to [“Upgrading a workstation or hardware device from v.4.x to v.4.9 GA” on page 3-9](#).

Ensure that the following conditions are true before attempting to install the Vertigo Suite software:

- The client computer meets all of the necessary hardware and software requirements (see [page 3-5](#)).
- The user currently logged into the computer has Administrative privileges.
- The Windows Firewall setting is set to **OFF**.
- If installing on a computer running Windows XP, Windows service pack 3 must be installed prior to installing Vertigo Suite v.4.9 GA.
- All other applications running on the computer are closed.
- The system’s **Regional Options** (Windows Regional and Language Options) are set to English (United States). This ensures consistency in number, date and time formats.

To install Vertigo Suite v.4.9 GA for the first time on a client workstation:

1. Access the executable file to launch the **VERTIGO XMEDIA SUITE SETUP WIZARD** (see [page 3-3](#)).
2. Follow the Setup Wizard’s on-screen instructions.
3. When the installation is complete, restart the computer as prompted.
4. Once restarted, the Setup Wizard will automatically return to verify and complete the installation process.
5. After the installation is finalized, open the **XMEDIA SERVER CONTROL PANEL** and complete the instruction for acquiring and validating a license key (see [page 3-13](#)).
6. To verify the installation, launch one of the Vertigo Suite applications.

NOTE

If you have removed a previous version of the Vertigo Suite (v.4.7 or v.4.8) from the computer and you would now like to perform a new installation of the Vertigo Suite v.4.9 GA on that computer, you must perform the following tasks before launching the new installation:

1. Verify if the Vertigo Suite software is still installed on the computer. If so, proceed to [page 3-9](#) and perform the upgrade procedure. If the Vertigo Suite software does not exist on the computer, then you must complete the remaining steps below.
2. Uninstall SQL Server and all related entries.
3. Using the Registry Editor, delete the following registry key:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Miranda Technologies Inc.\Xmedia Suite\Installer
```

Vertigo Suite's unattended deployment

The **Vertigo XmediaSuite** installer supports an unattended (silent) mode for automated remote installations with minimal visual output and no reboot. An unattended installation is launched by appending the appropriate command-line options to the installer executable file name as follows:

```
XmediaSuite-4.9.531.0.exe /VERYSILENT /SUPPRESSMSGBOXES /NORESTART  
/COMPONENTS="component1, component2, ..."
```

The installation can be customized to install any combination of applications by modifying the `/COMPONENTS` option. The example below shows the components for a typical Xnews installation including Xplorer, ingest, and software preview:

```
/COMPONENTS="Apps\Xnews, Apps\Renderers\SoftwareCG, Codecs, Drivers\Xplubli  
shAgent, Apps\Xplorer, Servers\TranscodeServer"
```

Refer to the [Components](#) section for the list and syntax of the available components.

Notes:

- The installer must be run as Administrator with ACL off.
- These instructions are for the full installer, which includes all 3rd party dependencies. The same executable and syntax are used for new installations and upgrades.
- Unattended installations will not install Microsoft .NET 3.5 SP4 and 4.0 since they trigger reboots. Both must be installed prior to the Xmedia Suite installation.
- Most combinations of components require a reboot, which should be triggered by the administrator at an appropriate time. Removing `/NORESTART` causes the reboot to be automatically triggered.
- The software is installed in `C:\Program Files\VertigoXmedia`.

Uninstallation

The Vertigo Suite provides a separate uninstaller executable, which also supports the `/VERYSILENT` and `/SUPPRESSMSGBOXES` command-line as shown below:

```
"C:\Program Files\VertigoXmedia\unins000.exe" /VERYSILENT  
/SUPPRESSMSGBOXES
```

Notes:

- Quotes around the executable file path are required due to spaces in the folder name.
- It is not necessary to specify components. They will all be uninstalled.

Components

A component is an individual application, service or device driver which can be installed. The following components can be defined using the `/COMPONENTS` command-line option.

Application name	Component name command-line syntax
Xbuilder	Apps\Xbuilder
Xnews	Apps\Xnews
Xpanel	Apps\Xpanel2
Xplay	Apps\XplayOpt\Xplay
Xplorer	Apps\Xplorer
Xstudio	Apps\XstudioOpt\Xstudio
Xstudio LT	Apps\XstudioOpt\XstudioLT
Software CG	Apps\Renderers\SoftwareCG
Vertigo XG	Apps\Renderers\XG
After Effects plugin for AE CS3 (32 bit version only)	AnimationExportPluginOpt\PluginAECS3
After Effects plugin for AE CS4 (32 bit version only)	AnimationExportPluginOpt\PluginAECS4
After Effects plugin for AE CS5 (64 bit version only)	AnimationExportPluginOpt\PluginAECS5
After Effects plugin for AE CS6 (64 bit version only)	AnimationExportPluginOpt\PluginAECS6
Clip and audio playback codecs	Codecs
Xpublish Agent	Drivers\XpublishAgent
Imagestore driver	Drivers\Imagestore
Distributed Content Editing Server	Servers\ContentServer
Data Server	Servers\DataServer
File Agent Server	Servers\FileIngestServer
GPI Communication Server	Servers\GPIServer
Transcode Server	Servers\TranscodeServer

Upgrading a workstation or hardware device from v.4.x to v.4.9 GA

The **VERTIGO XMEDIA SUITE SETUP WIZARD** (see [page 3-2](#)) guides you through the process of upgrading your workstation or Vertigo hardware device from a previous v.4.X release to Vertigo Suite v.4.9 GA.

NOTE

Please see [“Devices and software supported by this release” on page 5-1](#) for a complete listing of the hardware devices and software application/services that are compatible with the Vertigo Suite v.4.9 GA software release.

Once launched, the Setup Wizard automatically detects whether or not the Vertigo Suite is already present on the system. All Vertigo applications (Xplorer, Xstudio, Xbuilder, Xpanel, Xplay... etc.) and hardware devices (Xmedia Server, Intuition XG, Vertigo XG...etc.) must run the same software version to function properly. Therefore, the Setup Wizard will update all previously installed Vertigo Suite components to v.4.9 GA to ensure compatibility of all components.

NOTE

The Vertigo Suite v.4.9 GA release does not support upgrading from versions prior to v.4.0. Also note that when upgrading, compatibility of customized applications, scripts and plug-ins is not guaranteed. Please contact Grass Valley Support for further upgrade and compatibility concerns.

NOTE

The Vertigo Suite v.4.9 GA is backward compatible with SQL 2000, 2005, and 2008. The Vertigo Suite v.4.9 GA Installer automatically installs SQL 2008 on the target system **if the system does not already have an existing SQL database**. If the target system already has a supported version of SQL installed, the Installer skips the SQL installation task (i.e. it does *not* upgrade the system with SQL 2008). If you would like to upgrade from an existing database to SQL 2008, you must do it as a separate procedure using Microsoft SQL Management tools.

Before upgrading your system, ensure that the following conditions are true:

- If upgrading a client workstation, ensure that the computer meets all of the necessary hardware and software requirements (see [page 3-5](#)).
- The user currently logged into the computer has Administrative privileges.
- The Windows Firewall setting is set to **OFF**.
- If installing on a computer running Microsoft Windows XP, Windows service pack 3 must be installed prior to installing Vertigo Suite v.4.9 GA.
- All other applications running on the computer are closed.
- The system's **Regional Options** (Windows Regional and Language Options) are set to English (United States). This ensures consistency in number, date and time formats.

Before upgrading to v.4.9, you must:

- When upgrading Vertigo playout devices (i.e. Vertigo XG & Intuition XG), uninstall the current DSX Utils package using C:\Program Files\MatroxDSX.utils\Uninstall.exe. Then download and install the **DSX UTIL 8.0** package from Vertigo Suite software downloads section (Support > Downloads > Broadcast Products > Graphics) of the Grass Valley website (www.grassvalley.com).
- Uninstall Quicktime Alternative and install Quicktime.
- When upgrading from v.4.3 or lower, uninstall the **VERTIGO CODEC PACK** using the Windows “Add or Remove Programs” tool. The Setup Wizard will automatically install the latest Vertigo Codec pack.
- If you plan on using SNMP monitoring, please refer to the Release Notes for Vertigo Suite v.4.7 for information on installing the Microsoft SNMP Service and Supero Doctor 3 SNMP Agent.

☑ NOTE

Upgrading a standalone Vertigo application that uses an Access database, maintains the database intact. However, the standard for Vertigo Suite v.4.9 GA applications is to use the **SQL 2008 EXPRESS DATABASE WITH VERTIGO SCHEMA**, which is automatically installed by the Setup Wizard during the upgrade procedure. Some complications may occur when using the standalone application (no central XMS) with the HMP or LGK cards as a result of the two databases. In such a case, we request that you contact Grass Valley Support for an appropriate solution.

To upgrade from a v.4.x release to Vertigo Suite v.4.9 GA:

1. Access the executable file to launch the **VERTIGO XMEDIA SUITE SETUP WIZARD** (see [page 3-3](#)).
2. Follow the Setup Wizard’s on-screen instructions.
3. When the installation is complete, restart the computer as prompted.
4. Once restarted, the Setup Wizard will automatically return to verify and complete the installation process.
5. After the installation is finalized, open the **XMEDIA SERVER CONTROL PANEL** and complete the instruction for acquiring and validating a license key (see [page 3-13](#)).
6. To verify the installation, launch one of the Vertigo Suite applications.

☑ NOTE

In Vertigo Suite v.4.7, the device type, **XPUBLISHAGENT**, was renamed to **Preview (or other device)**. All previously defined devices that used the **XPUBLISHAGENT** setting will automatically be updated to **Preview (or other device)**.

Installing or updating the XG rendering software on an iTX Playout Server

The Vertigo XG rendering software can be integrated into the iTX playout server, which allows graphics scenes to be rendered directly on the iTX playout server. This functionality emulates a separate downstream Vertigo XG device.

For a first-time install, the Vertigo XG rendering software must be installed separately on the iTX playout server by running the Vertigo Suite v.4.9 GA installer and selecting the Vertigo Suite's **ITXG XMEDIA SUITE INSTALL** preset configuration.

If the iTX playout server is already running a previous release of the Vertigo XG rendering software, you can run the Setup Wizard to update the software to include the most recent fixes and enhancements.

Before attempting to install/update the Vertigo Suite software, ensure that the following conditions are true:

- The user currently logged into the iTX playout server has Administrative privileges.
- The Windows Firewall setting is set to **OFF**.
- All other applications running on the server are closed.
- The iTX playout server is running iTX v.2.3 SP2 or greater.

To install or update the Vertigo Suite v.4.9 GA on an iTX playout server:

1. Stop all services in the iTX Server Controller.
2. Access the executable file and launch the **VERTIGO XMEDIASUITE SETUP WIZARD** on the iTX playout server (see [page 3-3](#))
3. If the Vertigo XG rendering software is already installed, the Setup Wizard will automatically recognize this and you may continue to follow the installers instructions. If this is a first-time install of the Vertigo XG rendering software, when prompted to select components, choose the **ITXG Xmedia Suite Install** preset configuration.
4. Follow the instructions and install all dependencies as prompted by the Setup Wizard.
5. You may be prompted to restart the playout server (e.g. when the SQL database is created). If so, restart the playout server and then resume the installation.
6. When the Setup Wizard is finished, it will prompt you to once again restart the playout server.
7. Once the playout server has been restarted, the Setup Wizard will need a few additional minutes to complete the installation process.

NOTE

Do not use Microsoft's Remote Desktop tool as it may cause the XG rendering service to stop. Use VNC Server for remote access instead.

Installing the VertigoXG plugin on the iTX Desktop

The VertigoXG plugin is installed on the computer hosting the iTX Desktop. As an iTX channel plugin, the VertigoXG plugin allows operators to schedule secondary graphics events that will be inserted into the iTX Programme stream by the XG Inside option installed on an iTX Playout Server.

The VertigoXG plugin adds the VertigoXG palette to the Content Selector on the Channel Control layout, which lets you create graphics pages based on Vertigo templates and then add the pages and/or scenes to the schedule or timeline.

To operate, the VertigoXG plugin requires that the **iTX Integrated XG** and **ITXG licenses** be installed on the iTX Framework Server.

NOTE

The following procedure assumes that you have already set up the channel configurations in the iTX Desktop.

To install and configure the Vertigo XG plugin on a machine hosting iTX Desktop:

1. Acquire and run the latest version of the Vertigo Suite installer on the computer hosting the iTX Desktop that is connected to the iTX Playout Server with XG Inside.
2. When prompted by the installation wizard, select to install the **ITX VertigoXMedia Plugin Install** preset or the **ITXPlugin** Install application.
3. Follow the wizard instructions and respond to the prompts to install all dependencies.
4. Restart the computer when the wizard prompts you to.
5. The wizard takes a few minutes to complete the installation after the (final) restart.

Acquiring and validating licenses

To operate in their full capacities, most Vertigo Suite software applications and hardware devices require that valid application and device licenses be installed and validated on the Xmedia Server (or Embedded Xmedia Server).

As described in the installation instructions, after the installation is complete, you must contact Grass Valley Support team to request a license key for the applications and devices defined in your system. Then you must apply and validate the licenses using the XmediaServer Control Panel.

NOTE

New hardware devices that were factory configured usually ship with the appropriate licenses already installed.

After the installation is complete, you must complete the following procedure to acquire and validate the licenses on your system:

1. Open the **XMEDIA SERVER CONTROL PANEL**.
2. Select the **LICENSING** tab.
3. Select **SOFT KEYS** from the **LICENSE SERVER OPTIONS** drop-down list.
4. Click the **COPY TO CLIPBOARD** button, which copies the **MACHINE ID** to the computer's clipboard.
5. Paste the **MACHINE ID** from the clipboard into an email and send it to the Grass Valley Support team.

Upon receipt of the email, a Grass Valley representative will verify your licensing agreement and an email will be returned to you with a license code (softkey).

6. Once you have acquired the license code, return to the **SOFT KEYS** page (Licensing) on the **XMEDIA SERVER CONTROL PANEL**.
7. Paste the license code (softkey) into the **LICENSE KEYS** section's text box and click **VALIDATE**.
8. Click **OK** and the Xmedia Server Control Panel closes.

4 KNOWN ISSUES AND LIMITATIONS

- In previous versions of Vertigo & HMP, Vertigo relied on its publish history to know what assets were on the HMP. With Vertigo Suite v.4.8 & HMP v.5.12, Vertigo now scans a specific folder on the HMP, that did not exist before, to know what assets are on the device. Therefore, if the HMP has assets on it and gets upgraded, this folder will be empty and Vertigo will not know what assets were on the HMP. As such, you must republish the assets from the Xmedia Server to the HMP.
- The File Ingest Service supports the use of network mapped drives (e.g. T:) provided that UNC paths are used and that the local system account has access to the drive.
- Unlike character-based asset names which can be duplicated (e.g. image1 and image1 can exist on the system in different folders), assets named using only numerical digits (e.g. 1234) must be unique.
- Intuition Classic scene files (.tem) authored using Intuition Builder must be converted to a XMS compatible scene (.xml) in order to be played out on Intuition XG devices. While the conversion process is effective in most cases, the following issues have been identified:
 - **Crawling text:** In Intuition Builder, if the crawl's text box width is not specified as the video format's horizontal resolution, the crawl will only show in the text's bounding box when played out on the Intuition XG. Therefore, when you create a crawl in Intuition Builder, you must set the width of the crawl's text box to the full width of the video format. (D-02939)
 - **Rolling Text:** While Intuition Classic devices allow rolling text to go the full height of the video (without being limited by the text's bounding box), Intuition XG devices limit rolling text to the height of the text box. Therefore, if you want to make the Intuition XG play rolling text like an Intuition Classic (full height of the video), you must set the crawl/roll's bounding box dimensions to the size of the entire scene. (D-02917)
 - **Transitions:** During the scene conversion process, transitions for objects in Intuition Classic templates are converted to animations (using Visible Property) in Intuition XG. Unfortunately, the conversion process does not keep the intended transition types, and the objects will transition using a cut instead. (D-02928)
 - **Clocks & Timers:** The clocks and timers built in Intuition Builder contain functionality and elements that is not supported by Intuition XG devices. For example, embedded text with a clock or timer (i.e. "It is now...") is not supported by Intuition XG devices. (D-02970)

- Before installing the Vertigo Suite v.4.9 on a machine running Windows 7, you must disable (turned off) User Account Control (UAC). UAC is a Windows 7 security component that unfortunately prevents some Vertigo Suite components (i.e. codecs) from installing and functioning properly.
- You must be logged on as Administrator when running Adobe After Effects and the Vertigo After Effects Plug-in on Windows 7.
- Xplay's **PANEL EVENT** settings allows you to assign panel events to ten different keystrokes. Due to a restriction on Microsoft's Windows Vista and Windows7, the last panel event assignment, `Ctrl+Shift+0`, does not work unless you perform the following procedure.
 1. Click **Start**, and then click **Control Panel**.
 2. Double-click **Region and Language**.
 3. Click **Keyboards and Languages**, and then click **Change keyboards**.
 4. Click **Advanced Key Settings**, and select **Between input languages**.
 5. Click **Change Key Sequence**.
 6. For **Switch Keyboard Layout**, select **Not Assigned**.
 7. For **Switch input Language**, select **Not Assigned**.
 8. Click **OK** to close each dialog box.
- When dropping a file into a watch folder, the file must be locked while writing to the folder, otherwise the Vertigo tool that is being used to perform the ingest (Autoingester, File Agent, or File Ingest Server) might demonstrate odd behavior. Therefore, we require that you use Windows to copy the file in a separate step. This ensures that the file is locked, thus preventing the file from being read before writing is complete. Unpredictable behavior will result if this step is skipped.
- RTF (Rich Text Format) is not supported in Xnews.
- The Transcode Server does not support:
 - .AVI as an output container.
 - WMV and image sequences as output encoding formats.
 - VAF and J2K as input encoding formats.
- EAS (Emergency Alert System) is currently supported with TFT systems only. SAGE systems are not supported.
- The XG Dashboard application cannot detect both devices when running a dual channel Vertigo XG or Intuition XG device because both devices are listening on the same UDP port.
- Fonts used in a scene do not automatically become a scene dependency. This means that all fonts used in a scene must be explicitly published by associating the **Fonts** category to your destined device. Then you must drag the font from the asset browser to the asset dependency section of the scene tree. Only fonts that are ingested into the Xmedia Server can be published to a destination device.
- Xstudio does not provide a way to view the key signal for assets or templates.
- File names published to Imagestore and Intuition are restricted to a maximum of 36 characters.
- Rounded frames on text objects are not supported in Xstudio

- HD compositing limitation: When running in HD video standards, Vertigo XG has certain performance characteristics that may limit the amount of compositing that can be performed at any given time. If the limits are exceeded, the Vertigo XG's output may stutter. The factors that contribute to compositing limits are:
 - The number of videos in enabled objects.
 - The number of keyers, and the total amount of graphics enabled.
 - The number of clip streams playing. Note that when a clip is transitioning to another clip, both clips' streams count.

For more details, refer to the **Vertigo XG and Intuition XG performance and supported file formats** document in the Documentation Library (Resources > Documentation Library > Playback > Graphics) on the Grass Valley website (www.grassvalley.com).

- The following circumstances are known to cause the Vertigo XG to stop:
 - Connecting to and/or from the Vertigo XG using Microsoft's remote desktop tool.
 - Connecting to the Vertigo XG using VNC, with the video and system hooks enabled stops the Vertigo XG.
 - Activating the ATI control panel.
 - The activation of a screensaver.
 - Pressing *Ctrl-Alt-Delete* key sequence when the Vertigo XG's Dashboard application is running with a live window causes the application to close immediately. Use the *Ctrl-Shift-Esc* key sequence instead.
- Renamed assets are not reflected on HMP cards, and thus any further management of them is lost, including deletion and validation.
- Content which is not full resolution is not currently supported in the MJ2 format. For example, files that are not full resolution will not playback on the HMP card.
- When ingesting a Targa sequence (.tga) and converting it to J2K the asset is saved as a cel animation. This is acceptable for HMP playback, but the J2k cannot be played back on the Vertigo XG as a cel animation.

5 DEVICES AND SOFTWARE SUPPORTED BY THIS RELEASE

The following topics identify the hardware devices and software application/services that are compatible with the Vertigo Suite v.4.9 GA software release.

Grass Valley hardware devices

The following Grass Valley hardware devices are supported by Vertigo Suite v.4.9 for authoring, asset publishing, and on-air control.

- Vertigo XG v.4.9
- Imagestore 750 v4.3.1.2-003 (14/3/12) - 4.5.1-012 (22/11/12)
- Intuition+ v.1.13.8
- Intuition XG v.4.9
- iTX Playout Server v.2.3 SP3
- LGK-3901 v4.3.1.2-003 (14/3/12) - 4.5.1-012 (22/11/12)
- DSK v4.3.1.2-003 (14/3/12) - 4.5.1-012 (22/11/12)
- HMP v.5.11 & v.5.12
- RCP/BR v.4.9
- iMC panel v.7.2.3.0

Operating system, services and applications

The Vertigo Suite v.4.9 GA is supported by the following version of Microsoft's operating systems, services and applications:

- Windows 7 SP1 (32 bit and 64 bit)
- Windows XP (regular/embedded) SP3
- Windows Server 2003 (32 bit) & Windows Server 2008 (64 bit)
- Microsoft .NET 3.5 SP1 & 4.0 (both required)
- Microsoft SQL Server 2003, 2005, 2008 R2
- Microsoft SQL Native Client 2008 R2 (v10)
- Microsoft Visual C Runtime 2005, 2008, 2010
- Microsoft Visual Basic Runtime 6
- Microsoft Office (for ODBC) 2007 & 2010
- Microsoft SNMP Service (XP only) 5.1

3rd party hardware devices

In some circumstances, the following 3rd party devices have been supported by the Vertigo Suite for asset publishing and on-air control only. On-air content for these devices are authored in the creation packages provided by the vendor. Full support of these devices would need to be evaluated on an individual case basis.

- Ventuz
- VizRT
- Other devices may be supported. Contact Grass Valley for details.

3rd party software

The following software applications and versions are supported by the Vertigo Suite v.4.9 GA release:

- ENPS 7.1.3.3055
- iNEWS 3.5.1
- IMM 1.14
- Adobe After Effects 4.0, 5.0, 5.5 & 6.0
- Quicktime 7

NOTE

To read Excel spreadsheets, the Vertigo After Effects plug-in must be installed on a machine running a 64 bit operating system with Microsoft Office x64 (for the ODBC drivers). Both Adobe CS (64 bit) and Microsoft Office (64 bit) must also be running on the same system.

6 CONTACT US

Grass Valley Technical Support

For technical assistance, contact our international support center, at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (www.grassvalley.com).

An online form for e-mail contact is also available from the website.

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