

Vertigo Suite v.4.8

Branding & Promos: Graphics and voice-over animation

Release Notes

M852-0303-480

w w w . m i r a n d a . c o m

Vertigo Suite

version 4.8 (GA)

Release Notes



Miranda

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Document 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.

| Publication date | Description |
|------------------|---|
| March 05, 2012 | General Acceptance release |
| March 30, 2012 | Minor edits and updates, including: <ul style="list-style-type: none">• Updated list of known limitations associated with the integration of the XG renderer with the iTX Playout Server (page 2-2).• Updated supported versions list for the Imagestore 750, LGK, DSK and iMC panel (page 6-1). |
| June 4, 2012 | Clarified that during an upgrade, you only have to uninstall the VERTIGO CODEC PACK if the current running software is v.4.3 or lower (page 3-11). |
| June 28, 2012 | Minor edits and updates, including: <ul style="list-style-type: none">• Removed Windows Server 2008 from the note listing the operating systems that are not compatible with the Vertigo Suite v.4.8 (page 4-3).• Added a note informing users to not use VNC Server, instead of Remote Desktop when using the XG Rendering service (page 4-11). |

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1 INTRODUCING VERTIGO SUITE v.4.8

Vertigo Suite v.4.8 is a major release of the full Vertigo Suite. 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.

These release notes describe the new features and capabilities of the Vertigo Suite v.4.8 release. Installation and upgrade procedures are also provided in this document.

- [“New Features and Enhancements” on page 2-1](#)
- [“User-reported Bug Fixes” on page 3-1](#)
- [“Installation and Upgrade Procedures” on page 4-1](#)
- [“Known Issues and Limitations” on page 5-1](#)
- [“Devices and Software Supported by this Release” on page 6-1](#)

2 NEW FEATURES AND ENHANCEMENTS

Several new features and/or feature enhancements that have been added to the Vertigo Suite v.4.8 software. The following thematic sections describe each of the new features in greater detail.

Vertigo/iTX integration

- [“Integration of the XG renderer on the iTX playlist server \(S-02981\)” on page 2-2](#)

File Ingest Server enhancements

- [“File Ingest Server support for network drives \(S-02957\)” on page 2-6](#)
- [“A new File Ingest Server Monitoring window \(S-02958\)” on page 2-7](#)

Vertigo graphics and animation tool enhancements

- [“Leading digits in a count down timer can now exceed the 24 or 60 restriction \(S-02971\)” on page 2-7](#)
- [“The face of a Text2D object can now be translucent or transparent” on page 2-8](#)
- [“TV Format parameter is now available in Xbuilder \(S-03016\)” on page 2-8](#)

Vertigo asset management and system enhancements

- [“A new window identifies the assets to be imported \(D-03220\)” on page 2-9](#)
- [“Support added for Adobe After Effects CS6 \(S-03025\)” on page 2-10](#)
- [“Launch a device’s Dashboard from Xplorer \(S-02338\)” on page 2-10](#)
- [“Category restriction now applied to Search results \(S-02970\)” on page 2-11](#)
- [“Option to view or not view clips category in Xnews \(S-02928\)” on page 2-11](#)

- Cel animations are only supported if they are in the Miranda VAF format. Uncompressed TGA sequences are likely to have an adverse affect on the performance of the Output Server.
- There must be a gap of at least 7 seconds between successive graphics on the same layer – i.e. from the clearing of the first graphic to the taking of the second graphic.
- The XG Renderer plays out audio clips embedded in a Vertigo XG template; but it does not perform any audio mixing with content from the iTX Player, since this contains no audio stream. (The iTX Player mixes the audio output from the XG Renderer into the main audio stream.)
- Audio-level reduction (ducking) and sound effects cannot be controlled from the XG Renderer.
- The XG Renderer does not modify any AFD code in the video streams.
- The XG Renderer does not include caption, subtitle or SNMP data in the video stream it returns to the iTX Player.
- Where there is only one video stream and the source is a live feed, only transitions that do not involve overlapping video streams are possible (e.g. cut-cut; fade out, followed by fade in).

Manually adding a Vertigo graphics template to a schedule

The following procedure provides an overview of how to manually add a Vertigo graphics template to a schedule in the iTX desktop:

1. In Xstudio, create and save a graphics template to the central Xmedia Server. Refer to the **XSTUDIO USER MANUAL** for more information.
2. In Xstudio, publish the template to the iTX playout server.
3. In the iTX Desktop's **Channel Control** layout, select the **VertigoXG** palette on the Content Selector.
4. Click **Add Template** to display the Add Template dialog (figure 2-2).

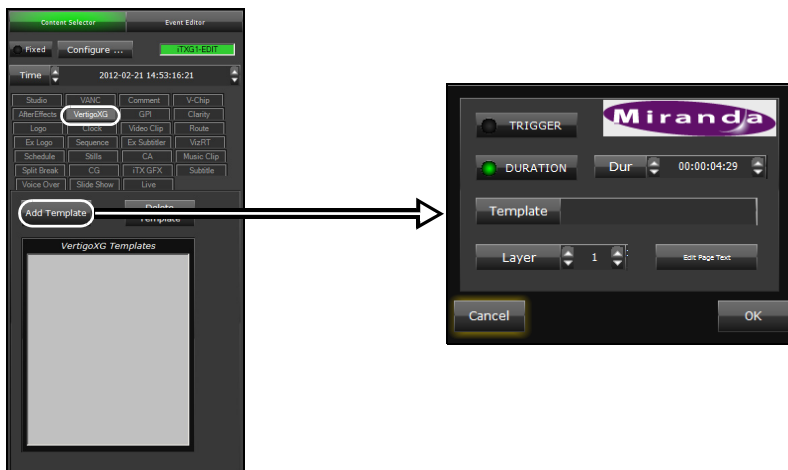


Figure 2-2. The iTX Desktop's VertigoXG palette and Add Template dialog

☑ NOTE

Please consult the **iTX Operator Manual v2.2** for complete information about the iTX Desktop and the VertigoXG palette.

5. Type the name of an existing template in the Template box.
6. Select **TRIGGER** or **DURATION** for the playout mode.
7. Enter a display layer number in the Layer box.

☑ NOTE

Due to a delay requirement between templates on the same layer, graphics templates that are intended to be played out back-to-back must be played out on different layers.

8. To edit the content of the template's text fields, click **Edit Page Text**, which display the Edit Page Fields dialog (figure 2-3).
Enter the field details for each field in the template: the field name in the Field ID column; then either the field text in the Field String column, or the name of a macro to generate the text in the Macros column; if you use a macro, you may need to enter macro parameters in the Macro Param column. Click **OK** to close the dialog.



Figure 2-3. The Edit Page Fields dialog allows you to specify the content of the template's text fields

9. Click **OK** to close the Add Template dialog.
The template is now listed in the VertigoXG palette's Selection pane.
10. Add the template to a schedule as a graphics event by dragging the template from the Vertigo XG Template list and dropping it onto the primary event in the Schedule Grid or the Timeline display.
iTX enters the new Vertigo event in the Schedule Grid as a secondary event nested within the primary event; it also displays a block to represent the event on the CG track on the Timeline Display.

Editing a Vertigo graphics event that is already part of the schedule

If the Vertigo graphics event is already present in a schedule, you may want to verify and/or edit the event's properties (i.e. time mode or offset), specify a different template for the event or edit the information in any text field a template has. Simply select the graphics event in the Schedule Grid and the **Event Editor** (figure 2-4) displays the same features as the Add Template dialog (which you use to enter template details in the Content Selector).

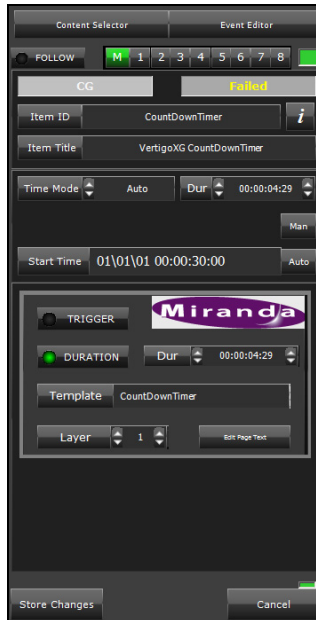


Figure 2-4. Use the Event Editor to view and/or edit the graphics event's properties

File Ingest Server support for network drives (S-02957)

As a service running in the Local Service account, the **File Ingest Server** could not access any networked based drives that required the credentials of the user currently logged in. To address this limitation, the File Ingest Server is now a tray application in the **Start Up** folder.

✓ NOTE

If you are upgrading from Vertigo Suite v.4.7, the service version of the File Ingest Server is automatically removed and replaced with the application version.

This change also allows watchfolders to be located locally on the system that is hosting the File Ingest Server, on a remote file system on the same network, or on a detachable network drive. This makes it possible to ingest files directly into a central server from networked computers or removable storage devices.

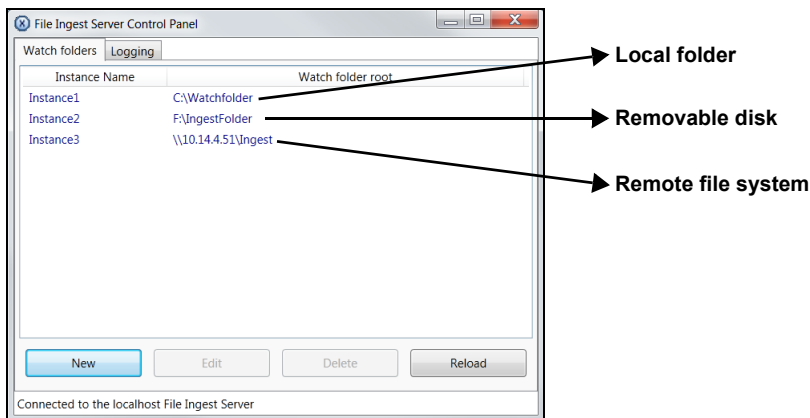




Figure 2-5. Watchfolders can now be located locally, on a removable disk or a remote file system

✓ NOTE

To gain the same advantages, the Miranda **Transcode Server** is now also a tray application in the **Start Up** folder. See the bug fix description for defect **D-03141** on [page 3-2](#) for more information.

When the File Ingest Server is activated, the File Ingest Server icon  appears in the Windows notification area. If the icon is not displayed in the notification area, select **VERTIGO>FILE INGEST SERVER** from the Windows **START** menu. Once activated, right-clicking on the File Ingest Server's notification icon  displays the **EXIT** command, which allows you to de-activate the File Ingest Server.

A new File Ingest Server Monitoring window (S-02958)

Vertigo Suite v.4.8 also introduces the **File Ingest Server Monitoring** window, which allows you to monitor the progress of the files being ingested, as well as view the ingest queues for files that require or do not require transcoding (figure 2-6). Any errors that may occur while ingesting are displayed on the Errors tab. To open the **File Ingest Server Monitoring** window, select **VERTIGO>FILE INGEST SERVER MONITOR** from the Windows **START** menu.

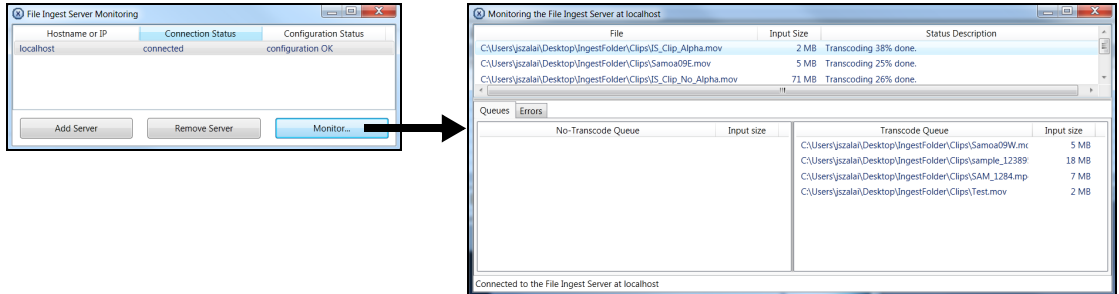


Figure 2-6. The File Ingest Server Monitoring window

Leading digits in a count down timer can now exceed the 24 or 60 restriction (S-02971)

A new property has been added to the **clock down timer** (Text object) in Xstudio. The **Limit Leading Digits** property determines if the leading digits displayed in a count down timer can exceed the 24 (for hours) or 60 (for minutes & seconds) limitation.

Figure 2-7 demonstrates the use and behavior of the Limit Leading Digits property. When the Limit Leading Digits property is set to **True**, the leading digits in the timer (i.e. minutes) are limited to the 24/60 limitation (e.g. 70 minutes = 1 hour 10 minutes). When the Limit Leading Digits property is set to **False**, the leading digits in the timer can exceed the 24/60 limitation and will display the specified value.

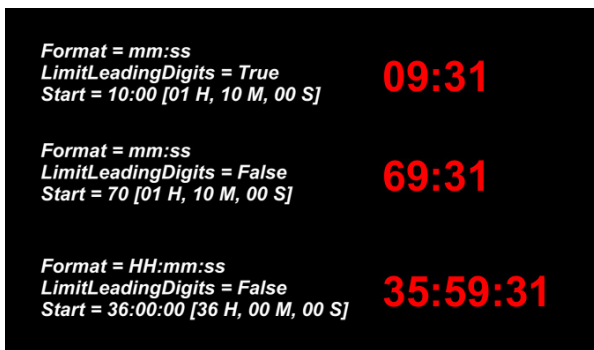


Figure 2-7. Examples of using the count down timer's new Limit Leading Digits property

The face of a Text2D object can now be translucent or transparent

Figure 2-8 demonstrates that the **FACEOPACITY** property associated with a Text2D object can be set to be different levels so that the face appears opaque, translucent or transparent. Note that the Edge and Shadow components of a Text2D object are completely independent of the Face properties.

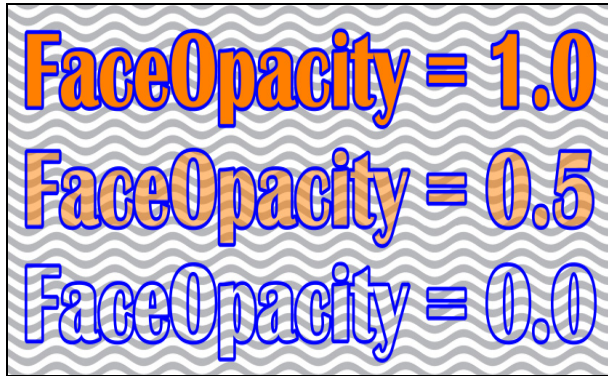


Figure 2-8. The face of Text2D objects can be set to different opacity levels

TV Format parameter is now available in Xbuilder (S-03016)

When using a MergeList in Xbuilder to create a series of pages, the **TV Format** parameter in Xbuilder's **General** settings (figure 2-9) ensures that the values that appear in the playlist's **Duration** column are displayed using a consistent resolution format. For example, if the duration in the MergeList is 45 seconds for a 25 fps template, then the duration in the playlist will be 00:45.0 when TV Format is set to PAL and 00:37.15 when set to NTSC.

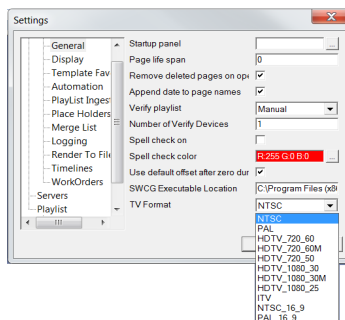





Figure 2-9. The **TV Format** parameter has been added to Xbuilder's General settings

A new window identifies the assets to be imported (D-03220)

When importing assets using Xplorer, Xstudio or Xpanel, a new **Import** window provides users with an opportunity to view a listing of all of the assets that will imported into the target Xmedia Server.

The procedure for importing assets remains unchanged, except that once the VxM Export File (*.exp) file is opened, the Import window now appears before the import is performed.

Figure 2-10 demonstrates that the Import window identifies all of the assets that will be imported from the export file to the target XMS. An icon in front of the asset's name indicates whether the asset is being added  or is being updated .

The assets are displayed in a tree-structure that represents the assets' destination among the target server's categories. Newly created categories are indicated the  icon.

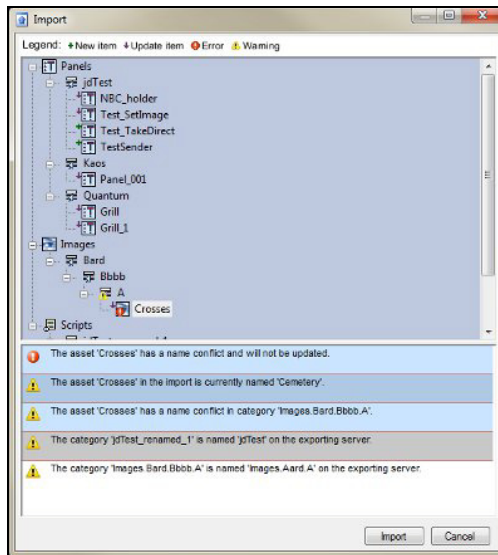


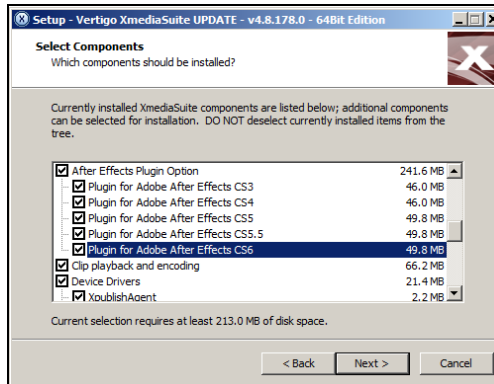
Figure 2-10. The Import window provides a verification step before the import operation is performed

Figure 2-10 also demonstrates that the Import window can also contain a list of error or warning messages to alert users of problems that may occur if the import is performed. For example, some categories may have to be renamed and some assets will not be able to be categorized because of name conflicts. Clicking on an asset that shows either an error or warning icon highlights the associated messages. Similarly, clicking on a message will select the corresponding asset or category in the tree.

After inspecting the import contents, select the **IMPORT** button to proceed with the import or select **CANCEL** to abort the import. The Import window remains open after **IMPORT** is clicked so that it can be referenced when looking for newly imported assets. Select the **CLOSE** button to close the **IMPORT** window.

Support added for Adobe After Effects CS6 (S-03025)

The Vertigo After Effects plug-in is now supported within Adobe After Effects CS6. The After Effects plug-in for CS6 is only available from the 64 bit version of the Vertigo Suite v.4.8 installer.



Launch a device's Dashboard from Xplorer (S-02338)

A new command in Xplorer allows you to launch a device's Dashboard, which contains the device's configuration settings. Figure 2-11 demonstrates that right-clicking a Vertigo XG, Intuition XG or Preview (Software CG) device in Xplorer's Device view displays the **LAUNCH DASHBOARD** command.

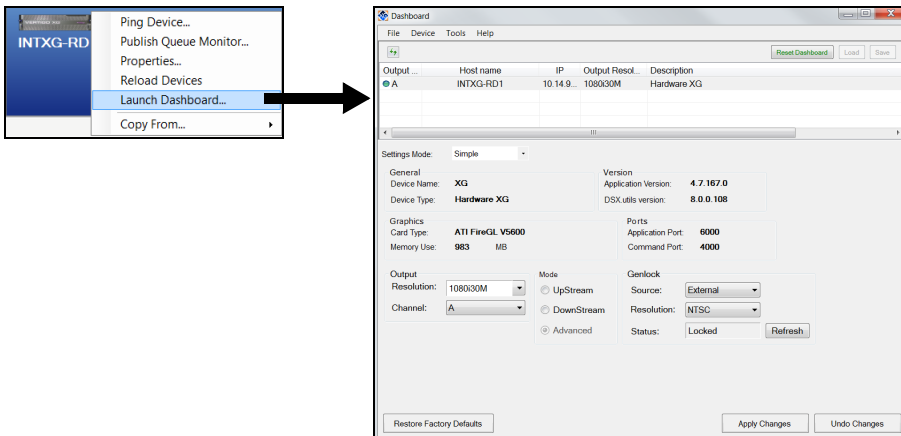
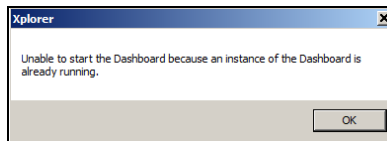


Figure 2-11. Launching a device's Dashboard from Xplorer

When the **LAUNCH DASHBOARD** command is selected, the device's XG Dashboard opens and searches for the device on the specified machine and port. If the device is found, then it is shown in the Dashboard's device list and its properties are displayed for editing. In the case of Intuition XG devices, the port specified in the device definition is the automation port on Xplay rather than the port belonging to an XG instance. Because of this, all ports are scanned on Intuition XG devices. If multiple XG instances are running they will all be shown in the device list.

Only one instance of the XG Dashboard may be running at a time. If you attempt to open an XG Dashboard when another instance is already running, Xplorer will display the following error message.



A Dashboard launched from Xplorer only targets a specific machine and the port behaves slightly differently from a dashboard launched from the XG control panel. The Device Discovery settings are ignored and an automatic scan is performed on the requested device. The device list is not saved on exit regardless of the value of the **AUTO-SAVE DEVICE LIST ON EXIT** setting. The **LOAD DEVICE LIST** and **SAVEDEVICE LIST** commands/buttons are also disabled.

Category restriction now applied to Search results (S-02970)

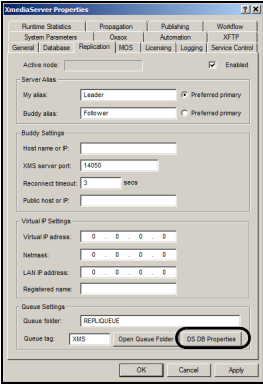
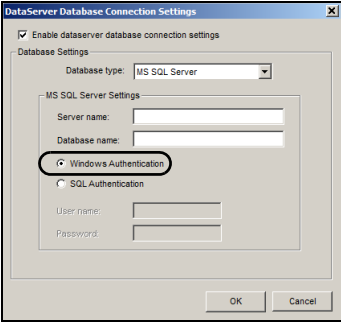
In Xnews, if you use the Search tool's results to replace an image whose **RESTRICTED** property is set to a specific category, if the new image does not belong to the specified category, you are prevented from replacing the image and an error displays informing you that the chosen image is not from the restricted category, as well as the name of the category that the image must come from.

Option to view or not view clips category in Xnews (S-02928)

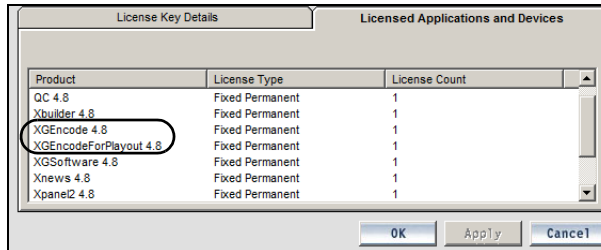
The **DisplayClips** setting has been added to the `xnews.ini` file. When set to **True**, the Clips category does not display in Xnews' Asset Browser. When set to **False**, the Clips category is visible in the Asset Browser.

3 USER-REPORTED BUG FIXES

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.

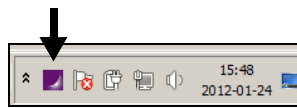
| Bugs fixed in v.4.8 | |
|---------------------|--|
| Defect # | Description |
| D-02683 | <p>The DATA SERVER DATABASE CONNECTION SETTINGS window (XMS CONTROL PANEL>REPLICATION TAB>DS DB PROPERTIES button) now allows you to choose between SQL and Windows authentication for the Data Server.</p>   |
| D-02983 | <p>The DEFAULT OUT, PAGE IN and PAGE OUT animations are now automatically cued up when the scene is loaded in Xplay to ensure frame accuracy. Note that this will increase scene load time if the animation contains asset-based channels (clips / audio, keyers). Also note that if loading the scene exceeds 5 seconds, Xplay will timeout and interpret the loading of the scene as having failed.</p> |
| D-03111 | <p>Exporting a large cel animation in Xplorer or Xstudio no longer results in an Export Asset Failure error message.</p> |


D-03137 The complete product names for the **XGEncode** and **XGEncodeforPlayout** licenses are once again displayed in the License Manager.



D-03141 As a service running in the Local Service account, the **Transcode Server** could not access any networked based drives that required the credentials of the user currently logged in. To address this limitation, the Miranda Transcode Server is now a tray application in the **Start Up** folder. All aspects of the Transcode Server remain the same as before.

Miranda Transcode Service



D-03199 The **SAVE STATION AS**  button in Xpanel's Station Manager once again allows you to create a create and save copy of the current loaded station configuration. Note that the newly saved station configuration is also automatically loaded in Xpanel.

D-03204 An error in the documentation incorrectly stated that the syntax for the **Reload Playlist** command was `PlayListCmd.Reload`, when it is actually `PlayListCmd.ReloadPlaylist`.

D-03206 The **AUTOMATION ID** column has been removed from Xpanel's Station Manager since its functionality has been deprecated.

| ID | Channel | Automation ID | Group | IS1 |
|----|---------------|---------------|---------|-----|
| 1 | Channel 1 (1) | | Default | |

Before

| ID | Channel | Group | IS1 |
|----|-----------|---------|-----|
| 1 | Channel 1 | Default | |

After

D-03210 To ensure backwards compatibility, a default value of 0 has been given to the **CUE ON PLAY** parameter belonging to the API interface's **PLAYANIMATION** command.

| | |
|---------|---|
| D-03247 | <p>A new <code>FontRenderer.ini</code> file is now available to assist the Font Render Engine in the rendering of particular Chinese fonts that are constructed with malformed outlines.</p> <p>The following is a list of fonts that may be problematic:</p> <ul style="list-style-type: none">• HuaTianKaiTi• HuaTianSongTi• MingLiU• PMingLiU• MingLi43• DFKai-SB• DFKaiSho-SB• DFKaiShu <p>When a Text object contains one of the Chinese fonts listed above and the object's BASICRENDERING property is set to FALSE (Xstudio), we recommend adding the <code>FontRenderer.ini</code> to the <code>%vxml%\Settings</code> folder on the machine that is hosting the Vertigo applications that are rendering the text (XG, Xstudio, Xplay, Xbuilder, Xpanel and Xnews).</p> <p>The <code>FontRenderer.ini</code> file contains a single section named <code>[FontLoading]</code> with one setting named <code>FontsWithMalformedOutlines</code>. The value of this setting is a comma-separated list of the font file names.</p> <pre>[FontLoading] FontsWithMalformedOutlines=kaiu.ttf, htkt2.ttf</pre> <p>Note that the <code>FontRenderer.ini</code> file is only required if the object's BASICRENDERING property is set to FALSE. If the object's BASICRENDERING property is set to TRUE, fonts with malformed outlines will actually render correctly and the <code>FontRenderer.ini</code> file is not required.</p> |
| D-03248 | <p>To prevent distortion when playing out rolling text containing Chinese characters in interlaced formats (i.e. NTSC), we recommend that you apply the following settings:</p> <ul style="list-style-type: none">• Set the ROLL UPDATE INTERVAL on the XG Dashboard to FRAME.• Set the roll's text FONT>SIZE setting to a value greater than 1 pixel.• Set the roll's text EDGE>EDGE SIZE setting to a value of 1 pixel.• Set the roll's text FACE>FACE BLUR setting to a value of 2.• Set the roll's TRANSFORMATIONS>Y position setting to a value of 0.5 pixels.• Set the roll's ROLL>RATE setting to a multiple of 30 or 60.• If the roll text contains Chinese fonts that are constructed with malformed outlines, set the text's BASICRENDERING setting to False and follow the instructions in page 3-3 for adding and setting the <code>FontRenderer.ini</code> file. |

| | |
|---------|--|
| D-03265 | An incorrect keyframe value was being retrieved when an .oxa/.oxi file was ingested. The valid keyframe number is now respected. |
| D-03273 | Despite Xbuilder's Verify playlist setting being set to MANUAL , the elements of an existing playlist were being automatically verified when the playlist was reloaded. The Verify playlist>Manual setting is now respected and no verification is performed when the playlist is reloaded. |
| D-03282 | Xbuilder now supports events sent with a target of Channel:Panel or Channel:All . When a panel is loaded, these events are sent to the panel. |
| D-03283 | When Xbuilder's VERIFY PLAYLIST setting is AUTO and a playlist is loaded, selecting a different device from the DEVICE FOR drop-down list once again launches a playlist verification and the status for each playlist element is automatically updated. |
| D-03291 | An internal timing issue was causing intermittent publishing errors when changes were saved to a page and the updated page was automatically published from the central Xmedia Server to the playout device's embedded Xmedia Server. |
| D-03293 | The Ingest dialog box now accepts non-ASCII characters in the Name, Author and Description fields. |
| D-03294 | Attempting to ingest a TGA Sequence as a cel animation would fail if the folder name and/or file name contained Chinese characters. The proxy generation and playback for VAF files has since been fixed when the path or filename contains non-ansi characters. |
| D-03315 | In Xstudio, if a mask object's USE AS MASK property is set to POSITIVE and its VISIBLE property is set to FALSE , a black area is now produced over the entire mask area rather than displaying the background. |

4 INSTALLATION AND UPGRADE PROCEDURES

This chapter contains information and instructions to help guide you through the process of installing or upgrading the Vertigo Suite software on a client workstation or hardware device.

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 4-2](#)
- [“Vertigo Suite network requirements” on page 4-4](#)
- [“Acquiring and validating licenses” on page 4-12](#)

There are three (3) scenarios in which you would want to install Vertigo Suite v.4.8:

- **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 most recent version of the Vertigo Suite v.4.8 software. See [“New installation of the Vertigo Suite on a client workstation” on page 4-5](#) for information and instructions.
- **Upgrade from previous Vertigo Suite release to v.4.8** - You want to upgrade your workstation or playout device from a previous Vertigo release (e.g. v.4.7) to the most recent version of the Vertigo Suite v.4.8 software. See [“Upgrading a workstation or hardware device from v.4.x to v.4.8” on page 4-9](#) for complete information and instructions.
- **Install the XG rendering software on an iTX playout server** - You want to integrate the XG graphics rendering capabilities into an iTX playout server. See [“Installing the XG rendering software on an iTX Playout Server” on page 4-11](#) for complete information and instructions.

An overview of the Vertigo Suite's Setup Wizard

The **VERTIGO XMEDIASUITE SETUP WIZARD** (figure 4-1) 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 4-1. 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 Miranda's License agreement
- Selecting the directory where Vertigo Suite v.4.8 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 4-7](#) 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 X MEDIASUITE 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 SUPPORT FILES** section of the Miranda Support Portal (<http://www.miranda.com/support/product.php?name=Vertigo>).
2. Select **Vertigo Suite v.4.8>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.4.8 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 and later • Windows Server 2003 SP2 and later • Windows 7 (32 bit) |
| Installer (64 bit) | The version of the Vertigo Suite v.4.8 is intended to be installed on computers running the Windows 7 (64 bit) operating systems. Note that this version does not provide 32-bit support. |

NOTE

Vertigo Suite v.4.8 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.4.8 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.4.8 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, iTX Playout Server | 4000 | Primary connection for Vertigo XG, Intuition XG and iTX Playout Server with integrated XG renderer | TCP |
| Vertigo XG & Intuition XG | 4001 | Second connection for dual channel Vertigo XG and Intuition XG devices | |
| 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 Miranda's Technical Support team (support@miranda.com).

New installation of the Vertigo Suite on a client workstation

Vertigo Suite v.4.8 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.4.8 cannot be installed on computers running **Microsoft Windows 2000**, **Microsoft Server 2003**, **Microsoft Server 2008** or **Microsoft Windows Vista**. Also, note that the Vertigo Suite v.4.8 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.4.8 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 4-6](#) 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 4-7](#) for information and instructions.

NOTE

If SQL 2008 is already installed on the computer, the **VERTIGO XMEIASUITE 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 XMEDIASUITE SETUP WIZARD**. If the Vertigo Suite software has already been installed on the computer and you would like to upgrade your system from a previous release, please refer to [“Upgrading a workstation or hardware device from v.4.x to v.4.8” on page 4-9](#).

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 4-5](#)).
- 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.4.8.
- All other applications running on the computer are closed.

To install Vertigo Suite v.4.8 for the first time on a client workstation:

1. Access the executable file to launch the **VERTIGO XMEDIASUITE SETUP WIZARD** (see [page 4-3](#)).
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 **XMEDIASERVER CONTROL PANEL** and complete the instruction for acquiring and validating a license key (see [page 4-12](#)).
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.4.6 or v.4.7) from the computer and you would now like to perform a new installation of the Vertigo Suite v.4.8 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 4-9](#) 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-4.8.186.0.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 SP1 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 | AnimationExportPluginOpt\PluginAECS3 |
| After Effects plugin for AE CS4 | AnimationExportPluginOpt\PluginAECS4 |
| After Effects plugin for AE CS5 | AnimationExportPluginOpt\PluginAECS5 |
| After Effects plugin for AE CS5.5 | AnimationExportPluginOpt\PluginAECS5_5 |
| After Effects plugin for AE CS6 | AnimationExportPluginOpt\PluginAECS6 |
| Clip and audio playback codecs | Codecs |
| Xpublish Agent | Drivers\XpublishAgent |
| Miranda 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.4.8

The **VERTIGO X MEDIASUITE SETUP WIZARD** (see [page 4-4](#)) guides you through the process of upgrading your workstation or Vertigo hardware device from a previous v.4.X release to Vertigo Suite v.4.8.

✓ NOTE

Please see [“Devices and Software Supported by this Release” on page 6-1](#) for a complete listing of the hardware devices and software application/services that are compatible with the Vertigo Suite v.4.8 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.4.8 to ensure compatibility of all components.

✓ NOTE

The Vertigo Suite v.4.8 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 Miranda’s Technical Support team for further upgrade and compatibility concerns.

✓ NOTE

The Vertigo Suite v.4.8 is backward compatible with SQL 2000, 2005, and 2008. The Vertigo Suite v.4.8 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 4-5](#)).
- 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.4.8.
- All other applications running on the computer are closed.

Before upgrading to v.4.8, you must:

- When upgrading Vertigo playout devices (i.e. Vertigo XG & Intuition XG), uninstall the current DSX Utils package from the following directory: `C:\Program Files\Matrox\DSX.utils\Uninstall.exe`. Then download and install the **DSX UTIL 8.0** package.
- 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 to v.4.5 or v.4.8, maintains the database intact. However, the standard for Vertigo Suite v.4.8 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 Miranda's Technical Support team for an appropriate solution.

To upgrade from a v.4.x release to Vertigo Suite v.4.8:

1. Access the executable file to launch the **VERTIGO XMEDIA SUITE SETUP WIZARD** (see [page 4-3](#)).
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 4-12](#)).
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 the XG rendering software on an iTX Payout Server

As described on [page 2-2](#), the Vertigo XG rendering software can now be integrated into the iTX payout server. This allows graphics scenes to be rendered directly on the iTX payout server, emulating a separate downstream Vertigo XG device.

The Vertigo XG rendering software must be installed separately on the iTX payout server by running the Vertigo Suite v.4.8 installer and selecting the Vertigo Suite's **ITXG XMEDIA SUITE INSTALL** preset configuration.

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

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

To install Vertigo Suite v.4.8:

1. Stop all services in the iTX Server Controller.
2. Access the executable file and launch the **VERTIGO XMEDIASUITE SETUP WIZARD** on the iTX payout server (see [page 4-3](#))
3. When the Setup Wizard asks you 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 payout server (e.g. when the SQL database is created). If so, restart the payout server and then resume the installation.
6. When the Setup Wizard is finished, it will prompt you to once again restart the payout server.
7. Once the payout 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.

Acquiring and validating licenses

To operate in their full capacities, most Vertigo Suite software applications and some 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 and upgrade instructions, after the installation is complete, you must contact Miranda Technical Support team (support@miranda.com) 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 Miranda Technical Support Services team (support@miranda.com).
Upon receipt of the email, a Miranda 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.

5 KNOWN ISSUES AND LIMITATIONS

- 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)
- 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.

- Before installing the Vertigo Suite v.4.8 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.
- 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 (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.
- 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.
- 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 on the Vertigo User Documentation web site (<http://www.miranda.com/support/product.php?name=Vertigo&sub=155>).

- 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.

6 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.4.8 software release.

NOTE

The information below reflects versioning at the time of the v.4.8 release. Please refer to the device/software compatibility chart on the **Vertigo Technical Support Portal** for the most updated information.

Miranda hardware devices

The following Miranda hardware devices are supported by Vertigo Suite v.4.8 for authoring, asset publishing, and on-air control.

- Miranda Vertigo XG v.4.8
- Miranda Imagestore v.3.1.1-002
- Miranda Intuition+ v. 1.13.8
- Miranda Intuition XG v.4.8
- Miranda iTX Payout Server v.2.3
- Miranda LGK-3901 v.3.1.1-002
- Miranda DSK v.3.1.1-002
- Miranda HMP v. 5.11
- Miranda RCP/BR v.4.8
- Miranda iMC panel v.7.2.3.0

Operating System, services and applications

The Vertigo Suite v.4.8 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

- 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.

- Avid DekoCast
- Avid Deko family
- Chyron HyperX
- Brainstorm
- Orad DVG
- Pixel Power Clarity
- Ventuz
- VizRT
- Other devices may be supported. Contact Miranda for details.

3rd party software

The following software applications and versions are supported by the Vertigo Suite v.4.8 release:

- ENPS 6.00.0046
- iNEWS 3.4.3
- 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 requires **Microsoft ODBC 2007** (or greater) drivers to be installed on the system. These drivers come with the Microsoft Office installer, but are also available for download from the Microsoft web site.

Important: The 32/64 bit versions of Adobe CS and Microsoft Office must match on a given system.

7 CONTACT US

Contact Miranda Technical Support

For technical assistance, please contact the Miranda Technical support centre nearest you:

Americas

Office hours: 9:00 a.m. - 9:00 p.m. (EST)
Telephone: +1-800-224-7882
Fax: +1-514-335-1614
e-mail: support@miranda.com

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Telephone: +852-2539-6987
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e-mail: asiatech@miranda.com

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