



VBrick EtherneTV Portal Server

EtherneTV v4.2.1 Portal Server
Release Notes



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About VBrick Systems

Founded in 1997, VBrick Systems, an ISO 9001 certified vendor, is a privately held company that has enjoyed rapid growth by helping our customers successfully introduce mission critical video applications across their enterprise networks. Since our founding, VBrick has been setting the standard for quality, performance and innovation in the delivery of live and stored video over IP networks—LANs, WANs and the Internet. With thousands of video appliances installed world-wide, VBrick is the recognized leader in reliable, high-performance, easy-to-use networked video solutions.

VBrick is an active participant in the development of industry standards and continues to play an influential role in the Internet Streaming Media Alliance (ISMA), the MPEG Industry Forum, and Internet2. In 1998 VBrick invented and shipped the world's first MPEG Video Network Appliance designed to provide affordable DVD-quality video across the network. Since then, VBrick's video solutions have grown to include Video on Demand, Management, Security and Access Control, Scheduling, and Rich Media Integration. VBrick solutions are successfully supporting a broad variety of applications including distance learning and training, conferencing and remote office communications, security, process monitoring, traffic monitoring, business and news feeds to the desktop, webcasting, corporate communications, collaboration, command and control, and telemedicine. VBrick serves customers in education, government, healthcare, and financial services markets among others.

Portal Server v4.2.1 Release Notes

These **Release Notes** have important information about v4.2 of the VBrick EtherneTV Portal Server. The ETV Portal Server is a video stream and source device management system accessed through Microsoft Internet Explorer 6.0 or higher (or Firefox 2.0 on a Mac) or through a VBrick EtherneTV-Set Top Box or IPR. More information can be found in the ETV Portal Server, STB, and IPR user documentation. The setup file installs the necessary ETV Portal Server components to a target ETV Portal Server machine. ETV Portal Server v4.2.1 requires the installation of a license file, normally supplied by e-mail or CD-ROM.

VBrick has tested ETV Portal Server on Windows 2003 Server Web Edition and Windows 2003 Server Standard Edition. These are the only supported platforms. **Note also that the ETV Portal Server will not operate correctly on a server that is configured as a primary domain controller.**

Note VBrick does not test or support ETV Portal Server on the Advanced, Enterprise, or Datacenter versions of Windows 2003 Server.

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What's New in 4.2.1

- WM-IPR Scheduling
- WM-IPR Priority Alerts
- EtherneTV Reporter
- EtherneTV Backup
- VOD-W 4.2 Enhancements
 - Configurable Web Services port for VOD-W
 - Secure VOD-W Web Services
- Purchased Content Expiration
- Content Ingestion Utility

System Prerequisites

Windows 2003 Server

- The Windows 2003 Server Web Edition or Standard Edition installation disks are required for the install.
- A minimum of 100 MB free disk space. Substantial additional disk space will likely be needed when ingesting or recording video.
- IIS Web Server and IIS FTP Server functionality must be enabled. The installer will determine if this needs to be installed.
- Latest Windows 2003 Server Service Pack.

Installing the Portal Server

If you ordered a Hardware/Software combination, the software will be pre-installed and your license will be activated on your server. The *Portal Server Admin Guide* will instruct you on how to configure the software. The *User Guide* will instruct you and your end users on how to access and view video from the Portal Server and how to schedule and view events with the Scheduler (if you purchased the Scheduler module).

For software only orders, it is strongly recommended that you read the *Release Notes*, which contain the installation instructions, and the *Admin Guide* prior to installing the software. The first step you should take is to Activate your software license. See the detailed instructions on the EtherneTV Product CD for more information.

When installing the Portal Server, the ETV Portal Server host name or IP address must match the host name or IP address of the computer on which it is installed. If the computer's host name or IP address is different, change these values in ETV Portal Server *after* you install the ETV Portal Server software. Go to **Add or Remove Programs > VBrick Media Control Server** and click **Change/Remove**. Then click **Modify ETV Portal Server Host Name or IP address** and modify these values as necessary. It is also good practice to check that the **Date & Time** and **Time Zone** are set accurately on the server. See "Synchronizing the Portal Server and the NVR" in the *Portal Server Admin Guide* for more information.

Note If you purchased a Network Video Recorder, see the *NVR Release Notes* for installation instructions.

Windows 2003 Server

Follow these steps if you are installing ETV Portal Server on Windows 2003 Server Web Edition or Standard Edition (these are the only supported platforms). The ETV Portal Server installation for Windows 2003 Server is a two-step process. First you install the ETV Portal Server program files; then you configure the IIS web site. *The Windows 2003 Server installation disk is required for this install.*

Installing the Portal Server

- ▼ To install the Portal Server:
 1. Note the server name or IP address where the ETV Portal Server server will be installed.
 2. Go to the "Software" page on the EtherneTV Product CD, find and run the [Setup_VBrick_Media_Control_Server_Suite_4_x_x.exe](#). The InstallShield Wizard will

extract the files, start Portal Server Setup, and verify the necessary pre-requisites are installed.

3. When prompted, click **Next** to continue.
4. When prompted, be sure **IIS** and **MySql** are checked for installation and click **Next** to continue. (If you choose not to install these pre-requisites, the install will end.)
5. If prompted, insert the original **Windows 2003 Server** installation disk and click **Next**.
6. A Welcome page is displayed after the pre-requisites are installed. Click **Next** to continue.
7. Read the End-User License Agreement (EULA) and click **Yes** to continue.
8. A dialog box shows the default Portal Server directory path: `c:\program files\vbriick`. Select **Next** to continue or **Browse** to select a different path.
9. Follow the directions in the License File dialog box. Click **Yes** to browse to a valid license file. Multiple license files may be shown if you purchased optional ETV Portal Server features. *Select all available license files in the folder.*
10. When the **InstallShield Wizard Complete** message is displayed, click **Finish** to exit.
11. The Portal Server installation will then run to completion without additional input. This may take several minutes.
12. When the installation is complete, press **Finish** to exit setup. This completes the ETV Portal Server installation. The ETV Portal Server runs in the background and will auto-start if you re-boot the server machine. If you experience problems or need to start or stop ETV Portal Server for any reason, you can or stop ETV Portal Server as explained in [Launching the Portal Server](#).

Note If you need to add or change a license file after initial installation, go to **Start > Control Panel > Add or Remove Programs > VBrick Media Control Server**. Then click **Change/Remove** and use the radio buttons to install or replace the required license.

Reinstalling the Portal Server

Use the following steps in the unlikely event that you need to reinstall the ETV Portal Server software.

- ▼ To re-install ETV Portal Server:
 1. Uninstall the software. Go to **Start > Control Panel > Add or Remove Programs**.
 2. Select **VBrick Media Control Server Suite** and click **Change/Remove**.
 3. When prompted, be sure to *keep* the database.
 4. When finished, restart the machine.
 5. Reinstall ETV Portal Server (see [Installing the Portal Server](#) above). You *do not* need to re-configure the web site.
 6. Restart the machine and you are done.

Launching the Portal Server

As noted, ETV Portal Server runs in the background and will auto-start if you re-boot the machine. If you experience problems or need to start or stop ETV Portal Server for any reason, you must start or stop the default web site. Note also that this is a web server installation that runs continuously. No desktop icons are present to show run status.

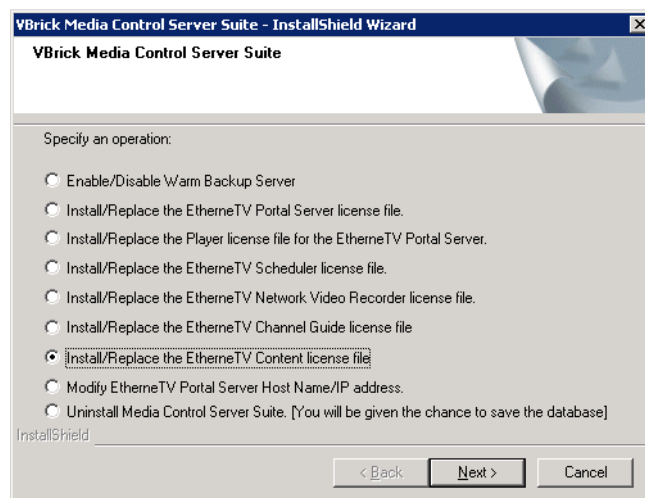
- ▼ To start or stop the ETV Portal Server Web Site
 1. Go to **Administrative Tools > Internet Information Services (IIS) Manager > <server_name>**
 2. Expand the tree under the **server_name** and click **Web Sites**.

-
3. Right-click **Default Web Site** and select **Start** or **Stop** as appropriate.
 - ▼ To launch ETV Portal Server from the server host machine:
 1. Open a web browser.
 2. Enter `http://localhost` to launch the client application.
 3. Enter `http://localhost/admin` to launch the admin application.
 - ▼ To launch ETV Portal Server from a client machine:
 1. Open a web browser.
 2. Enter `http://<ip_addr|server_name>` to launch the *client* application where `<ip_addr|server_name>` is the IP address or server name of the ETV Portal Server. (If using Integrated Windows Authentication, use the `server_name`.)
 3. Enter `http://<ip_addr|server_name>/admin` to launch the *admin* application where `<ip_addr|server_name>` is the IP address or server name of the ETV Portal Server. (If using Integrated Windows Authentication, use the `server_name`.)

Uninstalling the Portal Server

Use the following procedure to uninstall the Portal Server for any reason. (Do not uninstall the Portal Server before performing an upgrade. See [Upgrading the Portal Server](#) on page 5.) **Before uninstalling the Portal Server be sure to take it off the network and reboot the machine.** If you fail to do so it may be necessary to reinstall the application and *then* uninstall again as explained below.

- ▼ To uninstall the Portal Server:
 1. Go to **Start > Control Panel > Add or Remove Programs > VBrick Media Control Server Suite** and click **Change/Remove**.
 2. When the following window is displayed, select **Uninstall Media Control Server Suite** and click **Next**.



3. Respond appropriately when prompted to save the database.
4. After the uninstall, reboot the machine when prompted.

Upgrading the Portal Server

Upgrading from 3.1/3.2/4.x

Version 4.2.1 supports upgrades from all 4.x versions. The upgrade from ETV Portal Server v.3.1/3.2/4.x to ETV Portal Server v4.2.1 is highly automated with little user interaction.

- ▼ To upgrade from ETV Portal Server v3.1/3.2/4.x:
 1. Take the server off the network and reboot the machine first, before attempting the upgrade.
 2. After the reboot run [Setup_VBrick_Media_Control_Server_Suite_4_2_1.exe](#) and click **OK** when prompted. The installer will run automatically and prompt for a reboot when done. Then select any license(s) when prompted.

Note After upgrading to v4.2.1, previously customized streams may display the message "Program Unavailable" in place of the program name (or stream name). This message means there is no *programming data* associated with the stream. *It does not mean the stream itself is unavailable.* You can still launch the stream in the preview window. The message "Sign Off" means a network TV Station (for example ABC or CNN) does not have programming scheduled in that time slot. During "Sign Off" time, local stations air their local content.

		1:00 PM	1:30 PM	2:00 PM
3	Program Unavailable			
5	Jakers! The Adventure...	It's a Big Big World	SIGN OFF	
7	Program Unavailable			
8	Passport to Europe Wi...	Passport to Europe Wi...	Amazing Vacation Homes	

Post-Installation Steps – WM "Standard" Servers Only

Note These additional steps are required only if you are upgrading from v4.1 or lower. If you are upgrading from v.4.2, ignore this section.

If you have an existing WM *Standard* Server, an additional step is required to upgrade to v4.2.1 (this does not apply to WM *Advanced* servers). Several new fields have been added to the server description. After installing the upgrade, you must select the existing WM Standard Server name on **Global Settings > Servers** page and replace the default installation values for the following fields with values that are appropriate for your site. See "Adding WM Servers" in the *Portal Server Admin Guide* for more information about these fields.

Domain Name or Machine Name	When the ETV Portal Server and the VOD-WM server reside in the same domain, this is the name of that domain.
User Name	The name of a valid user that has administration privileges on the VOD-WM server or the network domain.
Password	The valid password of the user specified above.
Confirm Password	The valid password of the user specified above.

Upgrading from v3.0

The upgrade from MCS v3.0 to ETV Portal Server v4.2 is a two-step process. First you install a patch file ([SetupMCSS_3_0_0_Patch.exe](#)) and then you run the v4.2 setup program ([Setup_VBrick_Media_Control_Server_Suite_4_2_1.exe](#)).

- ▼ To upgrade from MCS v3.0:
 1. Before installing the upgrade, first take the server off the network and reboot the machine.
 2. Run the patch file [SetupMCSS_3_0_0_Patch.exe](#), follow the prompts, and reboot when done.
 3. After the reboot run [Setup_VBrick_Media_Control_Server_Suite_4_2_1.exe](#) and follow the prompts. The installation is highly automated and requires little interaction.
 4. Click **OK** when finished and the installer will prompt for a reboot.
 5. Reboot the machine and you are done.

Macintosh Configuration

If you use Safari as your web browser on any Macintosh computer, it will block pop-up windows by default. This prevents the Portal Server from creating an external player and also prevents full-screen mode from functioning properly.

- ▼ To configure Safari for Portal Server operation:
 1. From the **Safari** dropdown menu, deselect **Block Pop-Up Windows**:



2. Then configure incoming connections as explained below. In order to view certain types of networked video streams, you must configure your Macintosh firewall to allow inbound UDP connections. This is configured differently depending on whether you are using Leopard or Tiger.

Configuring for Leopard

- ▼ To configure Macintosh OS/X 10.5 (Leopard):
 1. Go to **System Preferences > Security**, then select the **Firewall** tab. You will see a window that looks like this:



- Set the Firewall either to **Allow all incoming connections** (not secure) or to **Set access for specific services and applications** (recommended). If you select the latter item, you must then click the **+** icon at the bottom of the window and add your web browser (Safari or Firefox) to the list. Note that the system will not work if you set the firewall to **Allow only essential services** because UDP packets will be blocked.

Configuring for Tiger

- ▼ To configure Macintosh OS/X 10.4 (Tiger):

- Go to **System Preferences > Sharing** and select the **Firewall** tab:



- Then click the **Advanced** button and make sure that **Block UDP Traffic** is off as shown below.



Installing Linux Components

Linux desktops only. The Portal Server must download Linux components to *each Linux end-user desktop* before any streams will play. This should only be performed by a system administrator. When you access the Portal Server for the first time, you will see a message indicating that the appropriate plugins are not installed. The following procedure explains how to install the Linux **MDS-xxx.rpm** and the **Nutcracker-plugin-xxx.rpm**. You must have **root** permission to perform this install.

- ▼ To install Linux components on one end-user desktop:
 1. Open the Portal Server user interface, click on **Download Components** in the embedded player area of the window, and copy the files to any folder.
 2. Click on **Download Player** in the same area of the window and copy the files to the same location.
 3. Type **rpm -i MDS-xxx.rpm** or double-click on the rpm package (it will prompt for the **root** password if you are not logged in as **root**).
 4. Type **rpm -i nutcracker-plugin-xxx.rpm** or double-click on the rpm package (it will prompt for **root** password if you are not logged in as **root**).
 5. For the plugin to load at startup, you must copy it to your local login **home**. For example:
 - a. Open a New Terminal window and navigate to the folder where the browser is installed, for example **cd .mozilla** or **cd firefox**
 - b. If it's a new user type **mkdir plugins**
 - c. Type **cd .plugins**
 - d. Type a symbolic link:
ln -s usr/local/nutcracker/lib/libnutcracker-plugin.so .
or cp /usr/local/nutcracker/lib/libnutcracker-plugin.so .

Upgrading Linux Components

Before you can upgrade a Linux desktop you must remove any existing Portal Server Linux components. Use the following procedure to uninstall existing Linux components from *each Linux end-user desktop* before you run the install procedure as explained above. The following procedure explains how to uninstall the Linux **MDS-xxx.rpm** and the **Nutcracker-plugin-xxx.rpm**. You must have **root** permission to perform this uninstall.

- ▼ To uninstall Linux components on one end-user desktop:
 1. Reboot the Linux PC.
 2. Open a New Terminal window and type the following commands:
rpm -qa | grep nutcracker

```

rpm -ef nutcracker-plugin-xxx
rpm -qa | grep MDS
rpm -ef MDS-xxx
cd .mozilla\plugins
rm libnutcracker-plugin.so

```

Linux/Macintosh Performance

The following tables show maximum throughput on Macintosh and Linux machines running only the embedded video player—and no other applications. It is important to note that the performance of all ETV Portal Server media/stream players depends on the power of the client machine. In general, performance limitations are more obvious on Macintosh or Linux clients than on Windows PCs. On PowerPC Macs and Linux machines for example, the video from WM encoders using the **Best Quality** and **LAN** templates may exceed the resources required to play those streams successfully. For best results, use a different template if you are using PowerPC or Linux devices to view WM encoder streams.

Table 1. Linux Performance using Firefox

Processor	Clock Speed	RAM	Max Throughput
Intel Celeron	400 MHz	256 MB	1/2 D1 at 3 Mbps
Intel Pentium 4	1 GHz	256 MB	Full D1 at 8 Mbps
Intel Pentium 4	2.6 GHz	256 MB	Full D1 at 15 Mbps

Table 2. Macintosh Performance using Safari

Processor	Clock Speed	RAM	Max Throughput
G4	1.2 GHz	256 MB	Full D1 at 5 Mbps
G4	800 MHz	256 MB	1/2 D1 at 3 Mbps
Single G5	2 GHz	1 GB	Full D1 at 10 Mbps
Dual G5	2 GHz	1 GB	Full D1 at 13 Mbps

Security Policy and Recommendations

VBrick has fully tested the all of its server-based software products on Windows Server 2003 (Web or Standard Edition with Service Pack 2) with all current Microsoft security updates installed. It is standard VBrick policy to configure and ship our servers with all current service packs and security updates as of the shipping date of the product. We also run limited regression tests when new service packs are released by Microsoft. Once VBrick software is installed at a customer site however, it becomes the customer's sole responsibility to install security updates and software patches as they become available. To protect against imminent threats, VBrick recommends you install and/or test all Microsoft security updates as soon as they become available.

▼ To see what security (and other) updates are installed:

1. Go to **Start > All Programs > Windows Update**.

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2. In the right navigation pane, click **Review your update history** to display the history of all installed updates.
 3. If necessary, go to **Start > Control Panel > Add or Remove Programs** to remove an unwanted update.

Microsoft IIS 6.0 Security

In addition to the standard security recommendations outlined above, there are additional Microsoft patches for IIS 6.0 you may wish to install.

- To hide the IIS internal IP address go to <http://support.microsoft.com/?id=834141>
- To remove the IIS "Server Information" banner go to <http://www.microsoft.com/technet/security/tools/urlscan.mspx>
- To remove the IIS "FTP Server" banner go to <http://support.microsoft.com/kb/q232068>

Caveats

This section addresses known issues, most of which have an easy workaround. For more information about any item, or help with an issue not listed here, contact your reseller or VBrick Support Services.

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- Standard VBrick Set Top Boxes do not support HTTP tunneling and will not play MPEG-4 content if the **HTTP Tunneling** option is selected in **Global Assignments**.
 - The Portal Server Access Logger does not log the viewing of live or stored presentations including those created with VBPresenter.
 - If two clients each try to record a stream at the same time, and the bandwidth required for both exceeds what is available on the VBrick (default = 20 mbps), the connection to the VBrick will be refused and one of the recording will fail with a message in the Status window. This is expected behavior.
 - Macintosh (Safari) and Linux (Firefox) clients may not play live or stored video after a Portal Server upgrade. Clearing the browser cache will usually resolve this issue.
 - Macintosh (Safari and Firefox) and Linux (Firefox). MPEG-4 content encoded using the 56K template will not display closed captions.
 - Macintosh only (Safari 3.0 or higher). If Apple QuickTime is enabled in Global Settings as the default Macintosh Player for MPEG-4 Content, the QuickTime player will freeze the first time you click on any item. Click again to unfreeze and continue.
 - Macintosh only. Safari 3.0 or higher. If Apple QuickTime is enabled in Global Settings as the default Macintosh Player for MPEG-4 Content, and the browser becomes unresponsive, click anywhere on the QuickTime player to recover.
 - Macintosh only. When multiple external windows are enabled, recording is disabled and you can only record the stream shown in the preview window. In some cases the **Record** button may be displayed on external windows even though it is non-functional.
 - NXG-1 VOD Servers only. Due to a limited staging area capacity, and depending on the number of streams being recorded and the size of the files, file transfers from an NVR to an NXG-1 may fail with the message: **Failure writing to local file**. This is known limitation of NXG-1 VOD servers.
 - Web page errors can occur in Internet Explorer 7 when running the Admin console and the Scheduler on separate tabs in the same browser instance. For example, if you modify

an Emergency Broadcast template on one tab and then try to modify a schedule on a different tab, Internet Explorer will report a web page error.

- When creating playlists, the popup Javascript window that lets you set Start and End times will not function unless the Portal Server has been added to the list of trusted websites. Go to **Tools > Internet Options > Security** and add the Portal Server host name or IP address to the list of **Trusted sites**.
- Firefox only. When viewing a playlist in an external player window, the external window does not stay on top when the clip changes. To change this behavior, Go to **Tools > Options > Content**. Click the **Advanced** button to the right of the **Enable JavaScript** checkbox, then check **Raise or lower windows**.
- Firefox only. When playing a stored WM stream on a Windows 2000 machine, the Pause control will black out the player window when you pause and then play. Do not use Pause. This is a known issue with no workaround.
- Windows Vista only. Live streams and stored streams will not work properly in fullscreen mode if you have the **Color scheme** set to **Windows Aero**. If this Vista option is selected, go to **Appearance and Personalization** and select a different color scheme.
- The Portal Server supports Flash (.swf) streams on Windows-compatible machines only. When adding URLs to live and stored Flash files, set the Type to WM and these files will play in the Portal Server. Flash URLs are not currently supported on Mac or Linux machines.
- When installing the VB-PC Remote universal remote controller on a Windows Vista machine, additional steps are required.
 1. Run **VBPCRemote_setup.exe** as explained in the *VB-PC Remote Quick Start* and follow the on-screen instructions. When prompted, plug in the USB infrared receiver.
 2. If Vista displays a "Found New Hardware" popup, click **Locate and install driver software**. If Vista displays a "Windows Security" popup, click **Install this driver software anyway**.
 3. When done, remove the Product CD and reboot the machine.
- When recording from a WM encoder to a Network Video Recorder (NVR) 40 machine, and using the **Best Quality** template, the NVR's maximum recording capacity is reduced to approximately 10 streams. Other WM templates are not affected.
- When scheduling a recording from a WM Appliance, RTSP and HTTP streams are both displayed in the Scheduler as RTSP.
- When recording a stream from the WM IPR in Portal Server mode, a rectangular red box is displayed in the lower-right area of the window to show that a recording is in progress. If you never leave the page, you can stop the recording by simply pressing the **Record** again. If you leave the page however (e.g. if you choose **MENU** and select another option), you must reselect the stream (and *then* press **Record**) to stop the recording and close the box.
- When using dual NICs on any Windows VOD server, communication between the NICs may fail if there is no path in the routing table from one NIC to the default gateway. To work around this issue, add a path to the default gateway as explained in the Windows Server documentation.
- If installing the Portal Server "Software Only" VBrick product on a machine with Windows 2003 Server Standard Edition, a "404 Page Not Found" may be displayed when you try to launch the Portal Server. To resolve this issue, you must add the Network Service permission to the Microsoft .NET directory as follows:
 1. Go to **C:\WINDOWS\Microsoft.NET\Framework**.

-
2. Right-click on **v2.0.50727**, then select **Security** and press the **Add** button.
 3. Press the **Advanced** button, press **Find Now**, and scroll to the **Network Service** user.
 4. Click on the **Network Service** user and press **OK**. Then click **OK** again and **Apply**.
- If the **Receive Address Mode** of an MPEG-2 decoder is configured for **Program Name**, and the Portal Server is scheduled to stream to this VBrick, the video will not play as scheduled. There is no workaround. This is a known bug and will be fixed in v4.2.
 - QuickTime (using Firefox or Safari) does not support Fast Forward or Rewind when playing a stored MPEG-4 stream. The FF and RW buttons on the QuickTime player simply pause the stream.
 - When ingesting content to a VOD-W Server, all content titles must begin with a forward slash (/) and apostrophes are not allowed.
 - When scheduling a live or a stored broadcast from a VBrick appliance that has multiple bit rate (MBR) enabled, the scheduled broadcast will use the VBrick's configured bit rate regardless of the template setting in the Scheduler. In this scenario, the Scheduler may generate error messages similar to the following on both the Portal Server's **Diagnostics** page and the VBrick's **System Log**. These messages can be safely ignored and the schedule will execute properly.

```
Failed to Set<vbrickSlot1EncoderNetwork TransmitEnable=1>  
Slot1EncoderTemplateApplySet set to applySet failed
```
 - When creating a stored broadcast schedule, the schedule will fail to create if the schedule **Start** date and **End** date are different (for example if it starts on one day and ends on the next). The end date and time in the schedule are adjusted to the duration of the stored file (except for Windows Media or Darwin files) but **Create Schedule** returns an error message. To work around this issue, simply click **Modify** and then click **Finish**.
 - When you schedule a multicast of stored MPEG-1 content files from an NXG VOD server, you will only see set top boxes as destination devices. MPEG-1 decoders cannot play these streams from an NXG server and consequently are not shown as available destination devices. Non-NXG servers, however, do not have this issue. All decoders and set top boxes are available as destination devices for non-NXG servers.
 - Manually-entered URLs for live streams cannot be used for scheduled recording from any VBricks. Manually entered URLs are not available in the live record list and will not work if entered manually. To work around this issue in the Scheduler, use multicast IP import (MPEG-1 and MPEG-2) or reenter the URL (MPEG4 and WM).
 - When playing a stored video on the external player, if you upload an image for a thumbnail, and then switch streams while the **Update Image** panel is still open, any subsequent thumbnail you upload will be applied to the first stream for which you originally uploaded a thumbnail.
 - When using a Macintosh with Safari, you cannot always launch a stored stream from the Scheduler page by clicking on the TV icon. To work around this issue, launch the stream from the **Live Broadcasts** page instead.
 - Macintosh only. The mute button is not "sticky" and works for the selected (live or stored) stream only . If you select a different stream, it will not be muted.
 - Batch recording to an NVR from a WM VBrick encoder is not supported; the **Batch** tab is greyed out on the **Scheduling** page. Batch recording is supported from all other VBrick encoders.
 - Windows Server 2003 only. The Portal Server typically runs behind a firewall and is installed by default with Windows Firewall set to **Off**. If necessary, you can use the following steps to configure the Portal Server to run with Windows Firewall set to **On**.

1. Go to **Start > Settings > Control Panel > Windows Firewall**. Check that the Firewall is **On** and **Don't allow exceptions** is not checked.
2. To allow client access to the web server, go to **Exceptions > Add Port** and add Port 80 (TCP) to the Exceptions list.
3. To enable FTP, go to **Exceptions > Add Port** and add Port 21 (TCP) to the Exceptions list.
4. To enable live streams, go to **Exceptions > Add Program** and navigate to **C:\Program Files\Common Files\VBrick\VBSapSrv**
5. To enable recording, go to **Exceptions > Add Program** and navigate to **C:\Program Files\VBrick\Asr\VBASR.exe**
6. To enable thumbnails, go to **Exceptions > Add Program** and navigate to **C:\Program Files\VBrick\MCS\ThumbNailCreator.exe**
 - Depending on the order in which they were originally installed, video streams may not run in the embedded player after you uninstall Internet Explorer ActiveX controls or Firefox plugins. To work around this issue in Internet Explorer, go to **Start > Control Panel > Internet Options > Settings > View Objects** and remove the following objects (if present) with Internet Explorer closed: **CVBUI**, **CFtpClientMgr Object**, **VBrick Streamplayer Components**, **VBrick MPEG4 Components**. Then go to MCS and re-install them when prompted. To work around this issue in Firefox, simply download and install the browser from [Mozilla](http://www.mozilla.com).
 - When switching between streams and/or switching between the integrated player and an external player, the embedded Windows Media Player will sometimes lose its ability to go fullscreen. This is a documented Microsoft problem with a patch available from: <http://support.microsoft.com/?kbid=912452&SD=tech>
 - If a Set Top Box will not play live MPEG-4 multicasts in **MCS** mode, verify that the VBrick SAP **Format** is **ISMA Compliant** and that **Session Information** has been configured. In IWS go to **Configuration: Encoder > Announce (SAP)** to configure these parameters.
 - With Windows 2003 Server (Web or Standard Edition with Service Pack 2 and Automatic Updates selected), warning messages can be generated by the Data Execution Prevention (DEP) software. To work around these messages go to **Start > Control Panel > System > Advanced > (Performance) Settings > Data Execution Prevention** and add the flagged VBrick module as an exception.
 - If you are FTPing non-English file names in IIS (for example when using the Portal Server SDK), there may be issues with Unicode support. If file names are not correctly displayed, go to **Control Panel > Regional and Language Options > Languages** and select **Install Files for East Asian Languages**. After rebooting go to **Control Panel > Regional and Language Options > Advanced** and select a language in the **Language for non-Unicode programs** control box. After a reboot the file names will display in the selected language on the FTP site using a command prompt window (on a Windows XP machine) or the Internet Explorer browser.
 - MPEG-1 encoder/decoder appliances with main board assembly numbers below 6100-0010-0114 and MPEG-1 decoder only appliances with main board assembly numbers below 6100-0010-1214 do not support closed captions. If these appliances are scheduled as decoders with **Closed Captioning** either **Enabled** or **Disabled** (and not to **As Configured**), the stream will not play and **<invalid parameter>** messages may be displayed in the Admin Console **Diagnostics** page.
 - When creating a Live Emergency Broadcast template from a WM appliance, if you set **Advanced Settings > Schedule Start Options > HTTP Push** to **Enabled** the existing Encoder Server settings will be used. Therefore, you also need to configure the WM

appliance for the push. In IWS, go to go to **Configuration: Encoder > Server** and configure the Server Name or IP Address and Publishing/Mount Point. See "Creating Publishing Points" in the *WM Appliance Admin Guide* for more information.

- If you configure an MPEG-4 appliance with Audio and Video disabled and Closed Captions *enabled* (in extremely low bandwidth applications, for example), you must have **CC ON** set in the embedded Portal Server player or no stream (from any appliance) will play. If this happens, set closed captions to **On**, then close the browser and restart.
- When configuring the Portal Server to use LDAP database for access control, be aware that an LDAP user for **Auto Ingest via XML** is not supported. You must create and select a VBrick user in **Global Assignments** or the Event Viewer will display: `Failed to update ingestion status: Input string was not in correct format.`
- When configuring a **Content Expiration Warning Recipient** under Global Assignments, the e-mail address for the recipient must be in the local domain.
- On Portal Server v3.2 or higher, an autoingest folder is not created until you record a program for the first time. If you want to autoingest before a recording, you must manually create the autoingest folder at `d:\inetput\ftproot\mcs\autoingest`. If you don't have a `d:` drive, use `c:\inetpub\ftproot\mcs\autoingest`.
- The VOD W server supports streaming of MPEG-4 closed captions; the NXG server does not. This means that if you have access to two servers (a VOD W and an NXG), and you perform a pushbutton recording of an MPEG-4 stream with closed captions, the closed captions track is stripped from the recording.
- Depending on user requirements, VOD users can be restricted to viewing RTSP streams at a specified bandwidth in Kbps. This feature is not currently supported for Darwin and VOD-WM video-on-demand servers.
- In some cases, because of a naming resolution issue, a LAN Network Video Recorder (NVR) does not record when the ETV Portal Server server is in a DMZ. As shown on the status page, the recording will either fail or run indefinitely (without actually recording). To work around this issue, modify (or create) a `hosts` file on the ETV Portal Server as shown below. Go to `c:\windows\system32\drivers\etc\hosts`. Open the `hosts` file in an editor and add the IP address and computer name of the NVR as shown below. (If the `hosts` file is not present, you must create one by saving a `txt` file with no extension.)

```
# Copyright (c) 1993-1999 Microsoft Corp.
# This is a sample HOSTS file addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space. Additionally, comments (such as these) may be inserted on
# individual lines or following the machine name denoted by a '#' symbol.
# For example:
# 102.54.94.97      rhino.acme.com # source server
# 38.25.63.10      x.acme.com    # x client host

127.0.0.1          localhost
nvr ip address    nvr computer name
```

- The duration of Darwin and WM video assets is not extracted in this release. As a result, the duration of a stored broadcast *schedule* for a Darwin or WM asset will not be automatically adjusted to the actual length of the clip. This means that the video asset plays until file end but the multicast continues until the end of the scheduled time.
- Multicast streaming from the VOD-D (Darwin) server is not supported.

- Not all Windows Media servers support multicast streaming. Only Windows Media Services 9 Series running on Windows Server 2003 Enterprise or Datacenter Edition support multicast.
- The VOD-D (Darwin) server does not support playback of H.264 content. If you try to play H.264 content, the audio track will play but the video will be blank.
- To avoid problems when recording content, the Windows Firewall must be set to **Off**. Go to **Start > All Programs > Windows Firewall** to turn it off.
- Use care when configuring virus scanning software. To avoid problems when recording on the ETV Portal Server, do not scan any folders into which recorded files are being saved. This is typically: `D:\Inetpub\ftproot\MCS\Record`.
- When creating an Emergency Broadcast template for a live broadcast and *manually selecting* **MPEG-4** and **Program Name**, the destinations available page shows only VBricks—it does not show STBs. Manual entry of Program Name does not apply to STBs.
- If an ingestion fails after a record and you wish to use the auto-ingest feature, be sure to purge the failed ingestion on the Status page before attempting the auto-ingestion.
- The ETV Portal Server and the Network Video Recorder (NVR) must be in the same time zone. Also, in order to record successfully, the system time on ETV Portal server and the NVR must be synchronized. You can synchronize the machines, for example, by running the Service for Windows Time on both machines.
- When scheduling a broadcast of MPEG-4 content from an InfoValue server to a VBrick decoder, v3.3 software must be installed on the VBrick or the video will not play. Also the MPEG-4 file must be "hinted" or it will not play properly on the VBrick decoder. Hinted files contain reorganized data that facilitates streaming, fast forward, rewind, etc.
- The online help pages are best viewed with **Internet Explorer 6.0** or higher (or **Firefox 1.5** or higher if using a Mac) at a minimum screen resolution of 1024x768 using Normal size (96 DPI) fonts. The pages may not display or function properly with earlier versions or other browsers, for example MAC OS X with Safari.
- When IIS installs the FTP service, a default FTP directory is created at `drive:\Inetpub\ftproot`. In MSC 4.2 or higher the **Record Path** must be in the FTP path of the Record server, for example: `C:\Inetpub\ftproot\MCS\Record`. To set **Record Path** in ETV Portal Server, go to **Global Settings > Recorders > Modify Recorders > Record Path**.
- You cannot create or upload thumbnails for Live Video streams that were added using the ETV Portal Server **Global Settings > URLs** functionality. Any attempt to create thumbnails for these URLs will fail.
- VOD Polling interval requires a restart before changes take effect. On Admin page, go to **Global Settings > Global Assignments > Assign VOD Polling Interval**. If you change the value, you must restart Vbrick Object Starter Service on the ETV Portal Server for this parameter to take effect.
- When using the Scheduler, be aware that all VBrick encoder/decoder resources must be available at the date and time of the scheduled event. When creating a schedule, ETV Portal Server verifies that the resources are currently present on the network but there is no way to determine if these resources will still be available at runtime. If there is a subsequent resource conflict, for example if a VBrick is disabled and not available (or the hard drive on a VBStar is full), the encoder/decoders will not connect for the scheduled event and there will be no video between the devices. Similar problems will occur if the

ETV Portal Server and VOD server clocks are not synchronized. See the VOD documentation for more information.

- With an NXG server, you can manually ingest video files to the server as documented. However you *cannot* use the **Add Video** command from the client application to add these same files. This feature is not available with Omnibase servers. Contact VBrick Support Services for more information.
- There is an issue with Admin settings for **Allow Access to Specific VOD Content** and **Allow Content Publishing**. If you check a parent directory, the sub-directories are also checked to indicate that the user has access to all sub-directories. However, at present there is no way to keep the user from unchecking a subdirectory. Regardless whether the user unchecks a sub-directory whose parent directory is checked, ETV Portal Server will still allow access to the sub-directory.
- There is an issue ingesting MPEG-4 content when closed captioning is enabled. Depending on the version of NXG software on the server, the ingestion may either fail or not playback. VBrick provides a utility to remove the closed captions track from an MPEG4 file if necessary. It is installed with ETV Portal Server in `c:\program files\vbrick\utils`. See the *ETV Portal Server Admin Guide* for details.
- The installer now changes the default root password for the MySQL database from no password to `vbrick_18`.
- For Macintosh when using IE, clicking on the scrollbar might cause a stream/video to play. Use the arrows to avoid this when viewing the playlist.
- For one-click login, if you type in the IP Address, rather than the name of the machine, you will be prompted for a username/password box. This is intended behavior as IE sees the IP Address and believes the user is in the Internet Zone. If you click on **Remember my password** you will not see the box again.
- The default FTP path in IIS is automatically set via the installer, but, depending on the particular machine's configuration, it may need to be changed. The installer sets the default FTP path to `d:\inetpub\ftproot` in IIS, if a D: drive is detected. Otherwise it sets the path to `c:\inetpub\ftproot`. If you have a machine with an E: drive and you want to set the FTP path to E:, you need to do the following: Go to IIS and use the right mouse button to select on the Default FTP Site, select **Properties** from the popup menu. The Default FTP Site Properties dialog box will appear. Select the **Home Directory** tab. In the **Local Path** edit box, change the value to `e:\inetpub\ftproot` and hit **OK**.
- If a user has defined a default STB channel, and then removes that particular customized channel in the **Customize Streams** page, that default STB channel is still listed as the current channel, even though it no longer exists.



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