



VBrick ETV Network Video Recorder

Network Video Recorder v4.0
Release Notes



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12 Beaumont Road

Wallingford, Connecticut 06492, USA

www.VBrick.com

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FCC Notice

This equipment carries the CE mark and is UL listed in the U.S. and Canada. This equipment has been tested and found to comply with the limits for Class A digital device, pursuant to Part 15 of the FCC rules, Class A for OC-3C Interface, Class A for the SDI Interface. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense. This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe A respecte toutes les exigences de règlement sur le matériel brouilleur du Canada.

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 over 20,000 video appliances installed across over 1,000 IP networks 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.

NVR v4.0 Release Notes

The Network Video Recorder (NVR) is a component of VBrick's Media Control Server Suite and provides a dedicated platform to perform multiple simultaneous recordings of live streams coming from VBrick encoders. The NVR lets you off-load all recording tasks from the ETV Portal Server machine to one or more separate "recorder server" machines. The NVR is available in two versions—one that supports 10 simultaneous records and one that supports 40—and is ideal for environments that require large scale recording on a robust and reliable platform. The NVR is tightly integrated with the Portal Server, the Scheduler, and VBrick's Video-on-Demand servers. See the *ETV Portal Server Administrator Guide* for related information.

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What's New in 4.0

- Recorded files can be saved to any available network drive.
- The total number of simultaneous recordings for all configured record servers is restricted by license file.
- Record server permissions can be set for end users.
- Ability to add external storage and load balance multiple record servers.
- Standalone NVR is available with limited access to "record" features.

Installing an NVR

The NVR is comprised of both hardware and software. Each platform comes fully loaded with pre-installed NVR software. In the unlikely event you ever need to re-install the NVR software, contact VBrick Customer Service for information and help.

Configuring an NVR

See "NVR Configuration" in the *Portal Server Admin Guide* for complete configuration instructions.

Synchronizing the Portal Server and the NVR

The internal clocks on the Portal Server and the NVR must be synchronized for recording functionality to work properly. You can use the `Net time` command as explained below or you can use an external time server. In order to run the `Net time` command on *either* server, the

server must be on the domain, and the user logged onto the server must have admin privileges *and* be part of the domain. To synchronize the Portal Server and the NVR use the command that corresponds to your operating system.

- Windows 2003 Server – Open a command prompt on the Portal Server and type:
`Net time \\{NVR IP Address} /SET`
- Windows 2000 Server – Open a command prompt window on the NVR and type:
`Net time \\{Portal Server IP Address} /SET`

Caveats

This section addresses known issues in this release, 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 Customer Service.

- 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.
- The Portal Server and the NVR are tightly linked. In order to avoid backward compatibility issues, always upgrade the NVR from the same package when you upgrade the Portal Server, and vice versa.
- 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 used by Microsoft TCP/IP for Windows.
# This file contains the mappings of IP 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 ETV Portal Server and the 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. See Synchronizing the Portal Server and the NVR on page 1.
- In order to record multiple streams, the Recorder path must be under FTP root. For example, if root is `C:\inetpub\ftproot` the Recorder path must be `C:\inetpub\ftproot\<your_folder>`
- If you try to uninstall the Microsoft .NET 1.1 framework prior to uninstalling the Network Video Recorder, the uninstall of the Microsoft .NET 1.1 framework will fail

because the Network Video Recorder uses this framework. If you need to uninstall the Microsoft .NET 1.1 Framework, you first need to uninstall the Network Video Recorder software.

- 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 two things. First, 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**. Second, you need to go to the **Admin Console > Global Settings > Global Assignments** and change **Select FTP root path** to `E:\inetpub\ftproot` and then change **Select a media storage path** to `E:\inetpub\ftproot\MCS\Record`.





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12 Beaumont Road
Wallingford, Connecticut 06492, USA