

VBrick StreamPlayer

StreamPlayer v4.3 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 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.

Contents

StreamPlayer v4.3 Release Notes	1
Topics in this chapter	1
Overview	1
Prerequisites	2
Upgrade.....	2
Installation.....	2
Features	2
What's New in StreamPlayer v4.3.....	2
Features from Previous Releases	2
Caveats.....	3



StreamPlayer v4.3 Release Notes

The purpose of this document is to provide release notes for the VBrick StreamPlayer Product Family of software applications, and includes the following. Any information contained within this document is to be considered VBrick Systems customer confidential and should not be reproduced nor distributed to non-VBrick Systems customers.

Topics in this chapter

- Overview
- Installation
- Features
- Caveats

Overview

The StreamPlayer Product Family empowers viewers to watch live high quality MPEG video and audio on PCs anywhere the network reaches. StreamPlayer automatically displays a “Program Guide” that lists live or stored videos that are available for viewing. Users simply click on the program name, and they are instantly watching television quality video on their PCs. StreamPlayer also allows Closed Captions to be displayed on screen for MPEG-1, MPEG-2, and MPEG-4 streams. StreamPlayer Family consists of the following products:

- **StreamPlayer WM** – plays MPEG-1 and Windows Media streams. Can also play MPEG-2 video if the user has a preexisting MPEG-2 decoder (a DVD player for example) on their machine.
- **StreamPlayer** – is a free desktop installed software program used either for viewing MPEG-1, MPEG-4, and Windows Media streams or files. MPEG-2 viewing is only available with this free program if an MPEG-2 decoder (e.g. a DVD player) is present on the computer.
- **StreamPlayer with MPEG-2 Playback** – includes all of the functionality of StreamPlayer as well as the ability to view MPEG-2 streams or files.
- **StreamPlayer Plus** – is a desktop install version that, in addition to viewing MPEG-1, MPEG-2, MPEG-4, and Windows Media streams, allows recording and basic editing of MPEG-1 and MPEG-2 video streams and recording of MPEG-4 and Windows Media streams. Additionally, as part of the StreamPlayer Plus package, a software component called the Capture Driver may be installed. Capture Driver provides the ability to accept an MPEG-1, MPEG-2, or MPEG-4 stream and convert it into uncompressed digital video. Capture Driver can be used with any software program which inputs video using PC capture cards. It allows the video to be more easily converted to .jpg images, edited, or reencoded into other non-MPEG video formats using third party software.
- **StreamPlayer License Server** – Manages concurrent MPEG-2 license usage.

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- **StreamPlayer Web Deployment Kit** – provides a free software component used for viewing within a Web Page. Administrators can use files installed by [SetupStreamPlayerWebDeploymentKit_4_3_0.exe](#) to setup web pages that automatically download the components necessary for viewing MPEG-1, MPEG-2, and MPEG-4 streams for easy distribution to viewers.
 - **StreamTracker** – Allows administrators to track MPEG-1, MPEG-2 and MPEG-4 video stream usage.

Prerequisites

StreamPlayer Plus software can be installed on the following operating systems.

- Windows XP (Home and Professional Editions)
- Windows 2000 Professional
- Windows 98 Second Edition
- Windows 98

Upgrade

If there is an earlier version of StreamPlayer or StreamPlayer Plus already present in the system this Setup automatically upgrades the old installation to the new version.

Installation

Detailed installation instructions are available in the *StreamPlayer Administrator Guide*. Please reference this document for instructions on how to install all of the StreamPlayer components. Capture driver is separately installed by rerunning the Setup after installing the StreamPlayer or StreamPlayer Plus software.

Note When installing StreamPlayer for the first time or re-installing a newer version, if requested, the computer should be restarted before launching the application in order to insure it uses updated files.

Features

What's New in StreamPlayer v4.3

- A separate Setup exe (Setup_WM_StreamPlayer_4_3_0.exe) now available that only installs those components required for windows media playback. This setup will not prompt for a license file.
- Ability to playback Windows Media streams
- Ability to record Windows Media streams.
- Supports Source Specific Multicast playback for the 232.x.x.x address space

Features from Previous Releases

- Playback of MPEG-1, MPEG-2, and MPEG-4 streams
- Support for MPEG-1, MPEG-2, and MPEG-4 Closed Captioning

- Recording and Hinting of MPEG-4 streams
- Recording of MPEG-1 and MPEG-2 streams
- Capture Driver support for MPEG-1, MPEG-2, and MPEG-4 streams
- StreamPlayer is provided in several different versions, each of which support playback of different video types.
- MPEG-4 stream playback uses the correct pixel aspect ratio
- StreamPlayer displays an **Upgrade Now** button in its **About** box and when the user clicks on the record button
- VBrick capture driver is not installed by default. User needs to go to the maintenance part of the Setup to install the capture driver.
- Supports silent (user interaction free) installation
- Playback of HTTP Tunneled and RTSP Interleaved MPEG-4 streams
- Events for Meta Data and Closed captioning during playback
- Support for recording MPEG-4 Meta Data to File
- Support for VBrick Metered Streams (using RTCP sender reports from VBrick Encoder for MPEG4 streams)
- VBrick MCS Player Control CAB included as part of StreamPlayer Family

Caveats

- If you are using StreamPlayer Plus on Windows 98, you cannot record Windows Media streams.
- If you are using Windows 2000 with the Microsoft Update Rollup 1 patch (see KB891861), the playback using Windows Media Player Version 6.4 does not work.
- Changing the encoder settings during playback will lead to playback freezing
- Windows 98 does not support closed caption overlay
- Display card drivers on XP machines should be up to date for the closed caption overlay to work properly
- If using a Tablet PC in Tablet mode, you may experience 100% CPU utilization. For best results, do not view video in Tablet mode.
- In some cases, users may receive this error message when attempting to play a video:

`0xC00D10B3: Windows Media Player cannot play this file. Connect to the Internet or insert the removable media on which the file is located, and then try to play the file again.`

This problem occurs because Microsoft Windows Media Player automatically tries to detect whether the player is connected to a network. If Windows Media Player cannot detect a network connection, and if you try to play online content, you receive the error that is mentioned in the "Symptoms" section. This problem may also occur if your browser is set to **Work Offline**. To force the player to always assume that the player is connected to a network, follow these steps:

1. Go to **Tools > Options**.
2. On the **Player** tab, under **Player settings**, check the **Connect to the Internet** (overrides other commands) check box. Please see the following URL for more information: <http://support.microsoft.com/default.aspx?scid=kb;EN-US;838101>

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- We do not recommend running StreamPlayer Plus on Tablet PCs while in Tablet Mode. Running Tablet PCs in laptop mode works fine.
 - When playing an HTTP tunneled or RTSP Interleaved stream, Windows Media Player may take several seconds to close after clicking on the “Close” button.
 - When using Windows 98 to record a multicast stream, occasionally, near completion of the recording, the CPU utilization may increase substantially. If this occurs, the PC must be rebooted.
 - The “Wrap” function in MPEG-4 recording is not supported. MPEG-4 files created in batch mode can be played back individually but multiple files cannot be selected and played as a group.
 - Do not change the encoded bit rate during the recording process. If the bit rate is changed on the encoder during recording, the resulting file will not be valid.
 - The recorder starts recording when it gets an “I” or Key frame. Therefore, long intervals between “I” frames (which is set on the VBrick MPEG-4 encoder) delays the recording process and might slightly reduce the length of the actual recording.
 - When playing an SDP file, a popup window might appear when using Windows Media Player, indicating that "The selected file has an extension that is not recognized by Windows Media Player, but the Player may still be able to play it." Selecting "Don't ask me again for this extension." and entering **Yes** plays the video.
 - When StreamPlayer or StreamPlayer Plus are used to access the EtherneTV-NXG VoD server in conjunction with the Cisco VPN client, users should install the VPN client version 4.0.2 or above. This is a limitation in previous versions of the Cisco VPN client.
 - Errors in file recording and local file playback can be caused by decoder conflicts. For example, other software players and StreamPlayer/StreamPlayer Plus use .mp4 file types. The last one to be installed is the one with which the file type is associated. If another software player is installed after StreamPlayer, it associates the .mp4 file extension with itself. File associations are set and changed in File Explorer, Tools >> Folder Options, under the File Types tab. To change the association, go to MP4 and associate it with Windows Media Player. If that doesn't work, uninstall the other software player and reinstall StreamPlayer Plus.
 - Editing options not currently available for MPEG-4 streams.
 - An application error occurs in XP installations if there are previous uninstalled versions on the desktop. The error is on installation only and does not affect operation. There appears to be incompatibility between the installation and Windows HotFix (SP2) Q328310. To avoid the error, do a fresh install (i.e., uninstall all old versions of the StreamPlayer before proceeding with the new installation).
 - Statistics within Windows Media Player will not display for live streams through Windows Media Player 7.1.
 - An error results if an attempt is made to edit or FTP multiple saved files that were not created in the same batch recording. Only files in the same batch recording can be FTP'd concurrently.
 - On rare occasions while un-installing StreamPlayer Plus, the uninstall program might complain that it is unable to remove the file 'VBExchange.exe' because it is locked. In this case, please wait for about a minute before proceeding with the uninstall.
 - Closed Caption data may lag slightly behind the video. The delay is not significantly different than what one would see with Closed Captioning on a television.
 - On XP, Closed Captioning Overlay works best when Service Pack 1 or higher is installed.

- On XP, if the latest Direct-X version is installed on the machine, it is recommended that the driver for the display adapter be updated.
- When Closed Captioning Overlay on video is selected, statistics will not display the selected and actual frame rate.
- Windows Media Player windows need to be closed before changes in the Closed Captioning settings on StreamPlayer or StreamPlayer Plus are registered.
- For PCs running XP, only one Windows Media Player window can provide Closed Captioning Overlay unless Service Pack 1 or higher is installed.
- On PCs running XP, when Closed Caption Overlay is enabled for MPEG-1 or MPEG-4, the video size is twice as normal.
- On MPEG-4 streams that contain only closed caption stream (no audio or video) playback will display Closed Caption only in the overlay mode.





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