

Verysoft, LLC

web: <http://very-soft.com>
e-mail: contact@very-soft.com
support: support@very-soft.com

WebVideoStreamer™

User's Manual

WebVideoStreamer v.1.0

Paper revision: 0.1



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I. Introduction

We appreciate your interest in WebVideoStreamer application.

Verysoft is pleased to announce new application from Verysoft's Video Software Department.

WebVideoStreamer designed to broadcast multimedia streams over Internet/Intranet networks. One of its major features is a capability to select audio/video hardware as a media sources.

WebVideoStreamer uses standard, simple and publicly available protocols and formats for media data streaming. Server and Client side modules are developed using standard web technologies and practices. It's never been so easy to integrate and improve your online streaming business.

Future releases of the WebVideoStreamer will be updated with new features. As usual we taking into consideration your critical reviews and ideas to make our software products better and suit your needs.

II. Application compatibility

Basic requirements for runtime environment is as follows:

- DirectX-compatible device;
- Output signal in IYUV format;
- Windows 2000/2003/XP/Vista;
- CPU: Intel Core or AMD K8 series or better;
- RAM: 1024 mb or more;

If you have any difficulties in determine which hardware you have and what characteristics it has, please refer to device users' manuals.

III. Installation and uninstallation of the program

You can download WebVideoStreamer from the official web-site: <http://very-soft.com/WebVideoStreamer> or from the third party web-resources.

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Attention

To avoid penetration of your PC by virus and other malicious software DO NOT COPY OR INSTALL applications hosted on UNTRUSTED web sites or sent to you by unknown identities. We recommend to download WebVideoStreamer and other Verysoft applications from the official web-site: <http://very-soft.com>

To install the application run “WebVideoStreamer_setup.exe” file. Answer to the questions of the installation dialog to complete setup process.

If you have any troubles or errors while installation, please, refer to an “Frequently asking questions and troubleshooting” section on the official web site (forum). Complete information about addresses and contacts you can find in “Support and Contacts” chapter.

Attention

Please read carefully text of “License Agreement” which is displayed on the screen of your PC while installation process.

If you are not agree with license conditions you must cancel the installation and delete all application copies and related materials from all available storages.

You can mail all your complaints and orders for special licensing conditions to: support@very-soft.com

Full text of the license can be found in the “License Agreement” chapter.

To uninstall the application open “Add / Remove Applications” item from the Administrative menu section, select WebVideoStreamer item and click remove button.

IV. Basic features

Major functionality description and competitive advantages of the WebVideoStreamer are:

- Capability to capture and broadcast media streams from a local hardware sources;
- Capability to broadcast media streams from a local files;

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- Support of several clients simultaneously;
- AVC/H.264 high definition video support;
- Independent configuration for broadcast sources;
- Support of several sources simultaneously;

WebVideoStreamer supports broadcasting in Adobe™ Flash format using so-called “HTTP streaming” approach.

V. General principles of the application management

After installation process is completed you can use all accessible WebVideoStreamer services.

WebVideoStreamer consists of several parts:

- WebVideo.exe – main application binary designed as service;
- ConfigTool.exe – Graphical application for service configuration;
- libx264.dll — video encoding library;
- log4cplusU.dll — library for diagnostic and debug output messages support;

Generally, to start broadcasting one must configure main service with appropriate parameters.

VI. Application setup and usage

This section contains description for program adjustment and management.



VI.I. Service customization

After basic service starts it indicates a path to a configuration file. This file contains description for all virtual streams.

Each virtual stream consist of media capture device description and specifications for video format resolution. Encoding module is configured according to mentioned information. Virtual stream is identified by alias and can be pointed as disabled.

Configuration file represents as plain text file in XML format as can be created manually or with special application from WebVideoStreamer package.

When executed main service initializes all active virtual streams to be ready for immediate broadcasting.

Main service could be logically separated to next modules:

- Capture module — it deals with hardware devices;
- Encoder module — it encodes streams in Adobe™ Flash format;
- Webserver — it promotes broadcasting to the net;
- Control module — customizes and controls over the streams.

Every network broadcasting request indicates type of the translation (live video or static content) and contains all necessary parameters to start http streaming.

VI.II. Config tool usage

Config tool allow to create and edit configuration files used be main server.

To create new configuration select: “File” menu then “New” item.

To edit configuration choose: “File” menu then “Open” item. Existing configuration file will be loaded for updating.

To save current configuration open: “File” menu then “Save” item. Indicate file name and press “Save” button.



To save current configuration with other name select: “File” menu then “Save as” item. Indicate new file name and press “Save” button.

To manage main service go to “Tools” menu and then “Control Service”. You can select configuration to run as well as start and stop WebVideoStreamer service.

To configure WebVideoStreamer built-in webservice one should open “Tools” menu then “Configure Webserver”. Available settings allow to indicate which IP address and TCP port will be used for translation.

To view debug and diagnostic output open “View Diagnostic” option located in the “Tools” menu.

VII. Configuration from the scratch

To add new streaming point one should follow next simple guideline:

1. Create new configuration file (“File” - “New”);
2. Add new virtual stream (“Streams list” - “Add stream”);
3. Indicate a virtual stream name;
4. Set a stream as “active”;
5. Adjust video source (Device, Resolution, Maximum Frame Rate);
6. Apply all settings (“OK”);
7. Test indicated device for compatibility issues. Check that selected device is free and is not occupied by another software;
8. It's required to save all changes;
9. Then go to “Configure Service” from “Tools” menu and select prepared configuration file;
10. Check broadcasting availability using demonstration sample.

Configuration steps must be repeated every time you create streaming point for WebVideoStreamer. Also you can create configuration files manually by editing XML fields in such files.



VIII. Demo sample

This section contains an example of folders and files location for demo movie streaming.

“Www” — local folder (www home, Server Root);

“www/demo” - files required for broadcasting;

“www/demo/st.html” - example of including HTML/JS code of an Adobe Flash (basic player component) and specification for the indicated stream (src).

“www/demo/AkamaiMultiPlayer.swf” - Adobe™ Flash Player with User Interface. It will be loaded by basic flash player component.

“www/demo/bbb.flv” - demo video with 256x144 resolution, 22 seconds length (H.264 video format, AAC sound format).

To check a functionality of described example one should visit url: http://webserver_ip/demo/st.html, where “webserver_ip” represents an accessible DNS name.

IX. Connecting to current broadcast

Appropriate name of a virtual stream should be indicated with **flvx** extension specified.

As an example: if configuration contains stream with “*myroomcamera*” name then “*myroomcamera.flvx*” should be use in network requests.

Attention

Please notice that network request for stream must not contains any additional symbols except domain address, path to root www folder and name of the stream with flvx extension. Stream request must be made from a root www folder.

In case you are using another FLV player than included in the installation package you may require to use different software configuration.

Trial version of the application can't stream live video.



X. WebVideoStreamer usage terms and conditions

According to the license agreement that is represented in the “License agreement” chapter, WebVideoStreamer application distributed with “as is” principle.

Verysoft persistently moves towards software products and services quality improvements as well as trying to develop and distribute maximum compatible applications but can't be reliable for all users' hardware and software configurations. We do not bear the responsibility for any damages and/or losses that usage or non-usage of any our software might cause, including WebVideoStreamer application.

To obtain additional information and detailed usage terms description please turn to “WebVideoStreamer End User License Agreement”. Text of the agreement can be found in the “License Agreement” chapter. Also it is displayed before WebVideoStreamer installation.

XI. Trial mode limitations

Trial version of the WebVideoStreamer application has couple of limitations that are applied only to unregistered copy of the application.

- Usage of AVC/H.264 codec is restricted;
- Live streams functionality is disabled;

Trial period is limited to 45 days. After it ends application becomes unusable.

XII. Support and Contacts

You can find all accessible information about current software products, their last



versions and updates on the official Verysoft web-site: <http://very-soft.com>

All questions and issues related to products ordering are welcomed on the e-mail: support@very-soft.com

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Verysoft Team is always happy to receive your feedbacks, ideas and suggestions. You can route them to: contact@very-soft.com or support@very-soft.com

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