USER MANUAL

Version 1.02 - April 2013

XFly.Streamer

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Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: http://www.evs.com/contacts

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage:

http://www.evs.com/downloadconter

Table of Contents

What's New?

The following table describes the sections updated to reflect the new and modified features on 1.02 (compared to 1.01).

In the user manual, the icon 

has been added on left margin to highlight information on new and updated features.

Click the section number (or the description) in the table to jump directly to the corresponding section.

Section	Description
3.1	XSquare support
6.3	XViewer integration

1. Product Overview

XFly Streamer is a software dedicated to the backup of streams from one or several EVS video servers (XT2, XT2+, XT3, XS, XTnano). XFly Streamer manages the backup and transfer of all streams selected by the operator.

This manual describes the configuration interface, which is easy to use and straightforward.

XFly Streamer acts as a user interface for the XSquare/XTAccess file transfer application running in the background. XFly Streamer sends its commands to XSquare using the SOAP jobs files.

Please refer to the XSquare Suite documentation for detailed instructions about this application.

1.1 Introduction

We recommend to install the XFly Streamer user interface on the same computer as the XSquare/XTAccess file transfer application, so that XSQ Suite is dedicated to XFly Streamer and is not used by any other application.

Important

XSquare/XTAccess is restricted to file transfer with wrapping when required, but cannot perform any format transcoding.

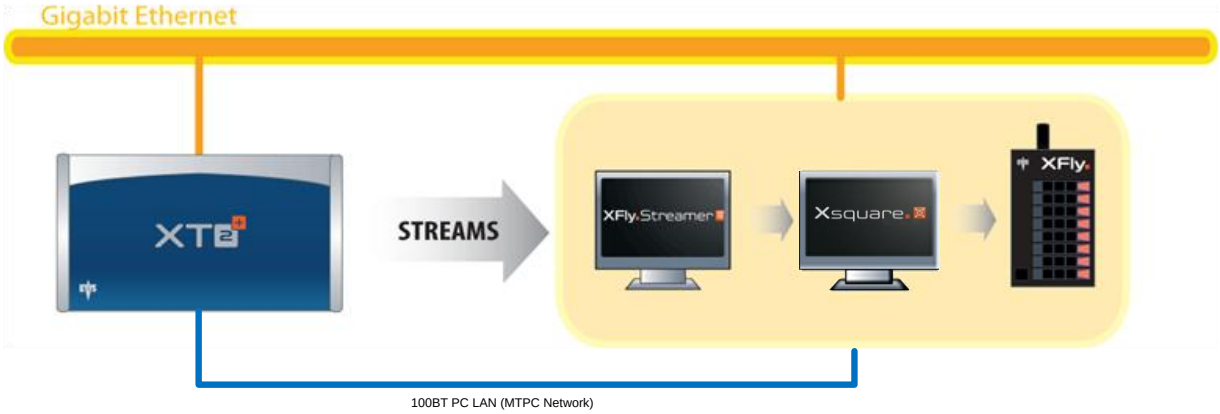
XFly Streamer is able to communicate only with one single XSquare application at a time, but it manages the backup of streams from multiple EVS servers.

XFly Streamer creates SOAP files corresponding to the backup of streams, grabs jobs requested by the operator, and sends these files to the local XSquare application.

1.2 Network Architecture Description

XFly Streamer must be installed on the same computer as the XSquare/XTAccess applications. The streams to be archived are located on one or several servers and storage units connected to the same network. Two networks are used for the various communications and the transfer of files, as illustrated below. Physically, these networks can be one and the same, or separate for the sake of performance:

- The **MTPC network** is used to detect EVS servers, to identify them, and to transfer the list of REC channels to be backed up.
- The **HCTX network** is used to transfer the streams data between the XFly Streamer and XTAccess computer, the EVS servers and the storage unit.



1.3 Hardware and Software Requirements

1.3.1 Minimal Requirements

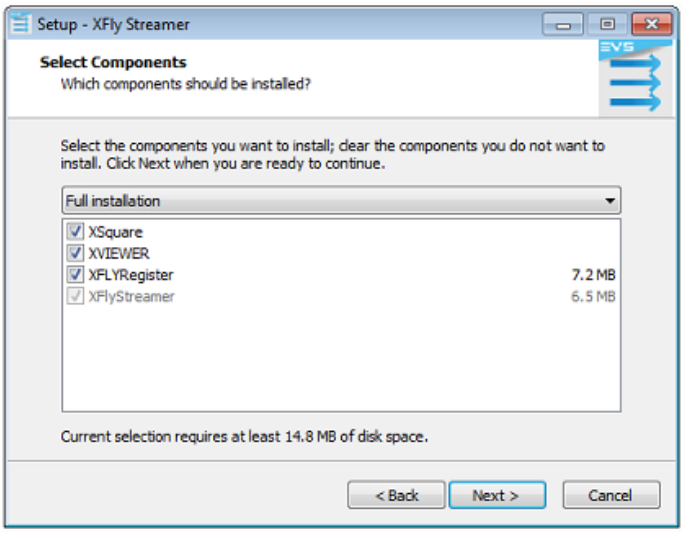
The guidelines for the minimum software and hardware requirements are:

- OS: Windows 7 Pro
- Software: Framework .NET 4.0
- Motherboard: I5 660 - 3.3 GHz dual core
- DRAM: 4 GB (1 GB shared with graphic card)
- Graphic: Chipset Intel G965 Express or equivalent dedicated graphic card (Nvidia/AMD)

2. Procedure

To install XFly Streamer, proceed as follows:

1. Double-click the XFly Streamer installer, and follow the steps of the setup wizard.
2. Click **Next** to continue.
3. Select **I accept the agreement** and click **Next**.
4. Browse to an installation folder destination and click **Next**.
5. Browse to a folder where to save the AV files and data (for instance, drive S: for XFLY device), and click **Next**.
6. Select the components to install, and click **Next**:
   - **XFLYRegister**: detection of XFly box via Bonjour protocol
   - **XSquare suite** (Recommended)
   - **XViewer** application for A/V preview



7. Select the Start Menu folder in which the application shortcuts will be saved, and click **Next.**
8. Check or not the desktop icon creation, and click **Next.**
9. All components and related tasks/options are ready to be installed. Click **Install** to start the installation.
10. All files are installed in **silent mode**.

    The installation process continues with the BONJOUR services installation, with the .NET Framework 4, the XFLY registration to Bonjour protocol, and then with XSquare suite installation.

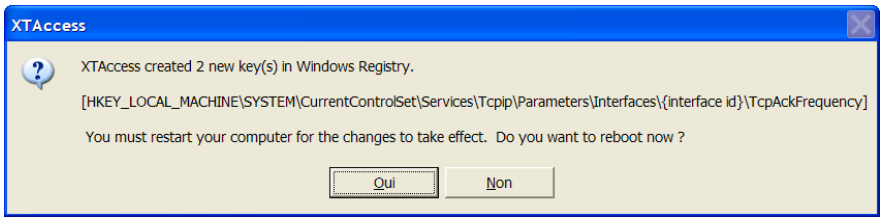
    Refer to XSquare suite documentation for detailed information of all its components.
11. To complete the XFly Streamer installation, the computer needs to be rebooted. Click **Finish**.

After the installation, the following shortcuts are added to your desktop:

XSquare and XTAccess are automatically associated and XTAccess is automatically launched at start-up and minimized in the task bar.

Important

When you first start XTAccess, the application modifies or adds the TcpAckFrequency key in the Windows registry. This key allows better backup performances. XTAccess needs then to be re-started.

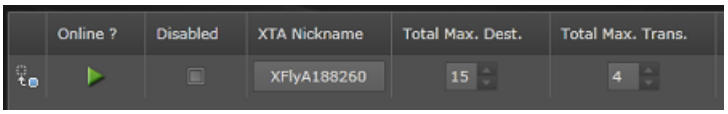


3. Configuration

3.1 New! Configuration of Local XSquare/XTAccess

The installer sets up automatically all software and components, therefore **no additional setting is required** prior to operate XFly Streamer.

The following parameters of the local XSquare have been modified during the installation process:



Total Max. Destinations is set to 15 in order to operate both Nano.Air and XFly.Streamer applications.

Total Max. Transcodings is set to 4 in order to allow Import facilities with Nano.Air application.

The following folders are automatically created and shared with full permissions:

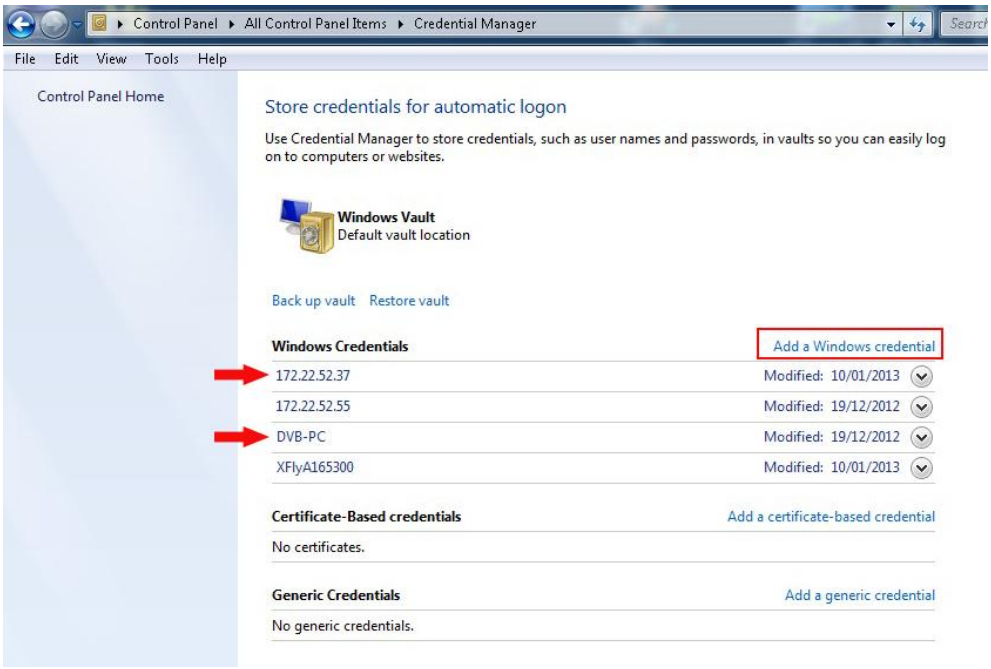
- **grab** and **ima** folders to collect the images needed to display the thumbnails. These folders are in hidden mode.
- **xfly_streamer****AV_files** folder to collect the audio/video files.

The local XTAccess software and its XFLY_Streamer_XML unit are automatically launched at start-up. Therefore, XFly Streamer is ready to operate.

3.2 Configuration of Remote XSquare/XTAccess

In order to work properly with an XTAccess installed on a remote system, you have first to set the XSQ parameters and to create the shared folders as described in section "**Configuration of Local XSquare/XTAccess**" on page 9.Then, you have to define Windows credentials, to log on automatically to the remote computer.

Select **Control Panel > User Accounts and Family Safety > User Accounts > Manage your credentials.**



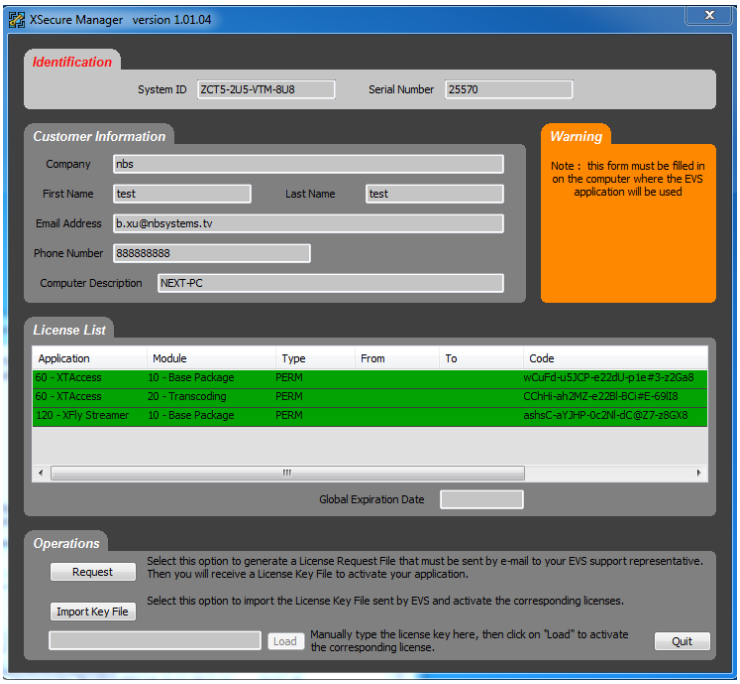
Click "Add a Windows credential", and fill the remote computer address, user name and password fields. For each remote system, two credentials must be added: one with the IP address, the other with the machine name.

4. Licensing

4.1 XSecure Manager

When you need to install a new license code, or extend the validity of a temporary license code, you must use the XSecure Manager application.Start the XSecure Manager application by double-clicking the XSecure Manager shortcut on your desktop.How to Get a License Key FileIn the XSecure Manager application, fill in the Customer Information area.

Click the **Request** button from the Operations area below. This will generate an XML file. Select the location where you want to save that file, and click **Save**.



Send this XML file to your EVS support contact, specifying which new license codes or license code extensions you need. In return, you will receive another XML file containing the license codes or code extensions that you have requested.

Copy that XML file in a directory visible by the XSecure Manager setup (using a USB key for instance, or your LAN network).

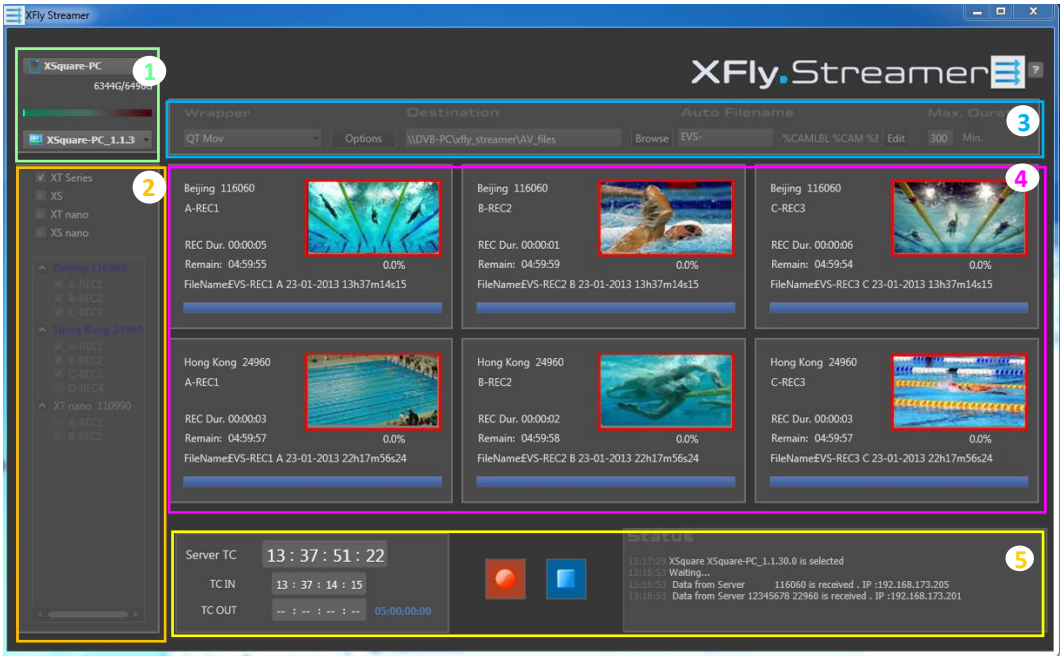
In the XSecure Manager application, click the Import Key File button from the Operations area. The license codes will be automatically imported, and a dialog box will confirm how many license codes have been successfully imported.

Note

Modifying NIC configuration (for example, Port teaming) will invalidate your software license. Please contact EVS support to generate a new key according to your new configuration.

5. User Interface

The XFly Streamer window contains the areas highlighted on the screenshot, and described in the table below:



Area		Description
1.	**Storage and Processing Devices Selection**	From this area, the operator can select the device to store the AV files, and the device (i.e. the XSQ/XTA) to process the different tasks for grabbing thumbnails and for recording streams.
2.	**Servers List**	This area displays the list of all servers detected on the network.
3.	**Settings**	This area allows to set the AV files format, destination folder, auto naming pattern, and the maximum duration for recording.
4.	**Channels Area**	This area shows the server recorder channels which are selected in the servers' list.
5.	**Commands and Status**	This area displays the Timecode reference and duration, the status and the 2 main commands to start and stop the recordings.

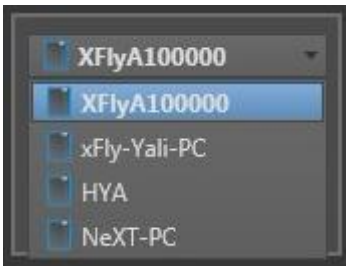
Note:

On the top left of the window, the caption bar mentions the Application name and the version number. There is no menu bar.

5.1 Storage and Processing Device Selection

Thanks to BONJOUR protocol, at start-up, XFLY systems are detected and listed in a drop-down list.

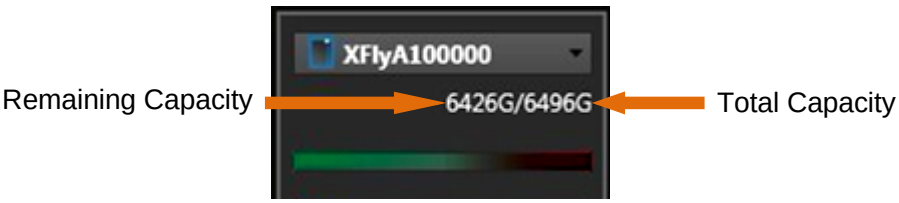
Clicking on the arrow on the right will display all systems detected. In the dropdown list, XFly is identified as Machine_Name + EVS_SN.



Note

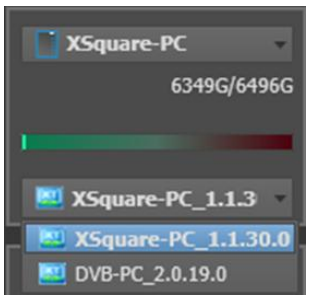
The **local** device is displayed on the top of the list with bold letters.

Once a system is selected its capacity information and a related diagram are updated:



The second drop-down list lists all XTAccess detected on the local network via BONJOUR protocol.

Clicking on the arrow on the right will display all processing devices detected. In the drop-down list, XTAccess is identified as Machine_Name+EVS_SN+version number.

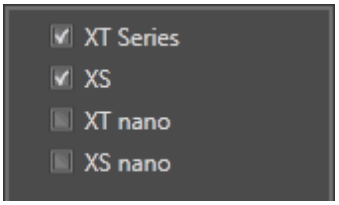


Note

The **local** XSquare is always displayed on the top of the list with bold letters.

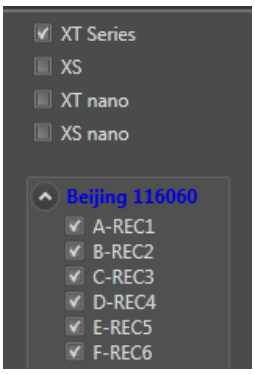
5.2 Server List

Filters



This pane displays the four families of EVS video servers which can be seen by Xfly Streamer: XT series, XS, XTnano and XSnano. Select one or several server types you want to display in the servers' list.

Select servers and then channels



This pane displays a list of all available servers found on the network after a discovery process. This list is based on the selection made in the Filters pane.

This list is updated regularly and automatically by new discovery processes.

Once the list is displayed, select all servers by clicking on the left arrow, then check the boxes of the channel on which you want to perform a backup.

CAM Label information, if defined, will be refreshed every two minutes to get the latest information from the server.

Note

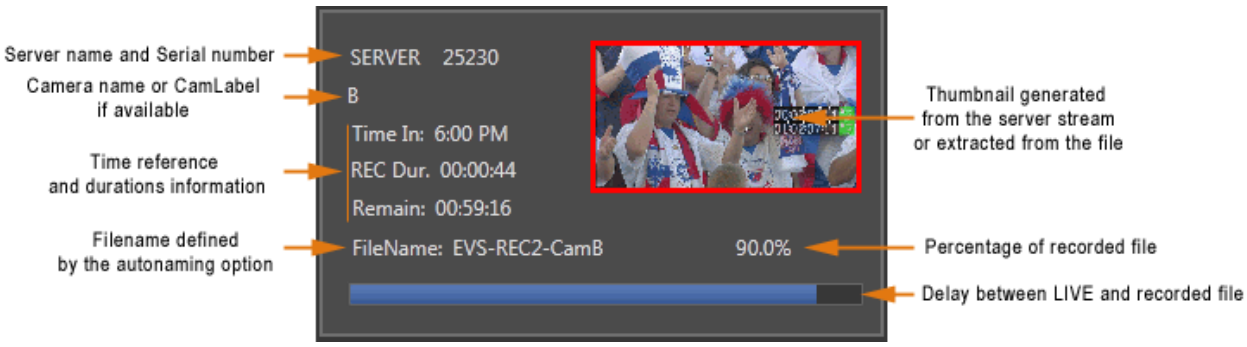
The server list displays only the servers configured with record channels, and will only display the record channels.

5.3 Channels Area

The channels area is filled with all selected channels (Max 6 channels)into the server list.

Each channels' field displays the same information:

The Channels area is divided into 6 panels. Each panel is dedicated to one channel. The screenshot below features a single panel, as all fields have the same meaning in all panels.



5.4 Commands and Status

5.4.1 Area Description

This area contains the following buttons and fields:

Button/Field	Description
Server TC	This field displays the timecode reference of the first server selected in the servers list. This field is not editable.
TC IN	The TC IN field is editable. Click into the TC IN field and enter a value. Press **ENTER** to validate. The TC IN value must exist in the material of the selected server. This means that only TC “in the past” can be entered in the TC IN field.
TC OUT	The TC OUT field is editable. Click into the TC OUT field and enter a value. Press **ENTER** to validate. The TC OUT value must be higher than the TC IN value.
E/E 	This button appears only when the TC IN field is manually edited. It allows to clear the TC IN and TC OUT fields.It is disabled when a recording is in progress. See section….

Button/Field	Description
Duration 	This field displays the duration computed from the TC IN and TC OUT values, or, if TC OUT is not defined, according to the maximum duration defined in the Settings area.
Record button 	The **Record** button allows to start the backup of the recoding trains on all selected channels. The backup record starts instantly. The **Record** button lights red when the recording is in progress. See section "How to Record Streams" on page 22.
Stop button 	The **Stop** button allows to stop the backup of the record trains on all selected channels. As the backup files need to close properly, it can however take some time before the job is finalized. During this time, the message "Finalizing..." will be displayed in the status area. The Stop button lights blue when the stop command has been enabled but the recording is still finalizing. See section "How to Record Streams" on page 22.
Status	This field displays information and error messages related to the current operations.

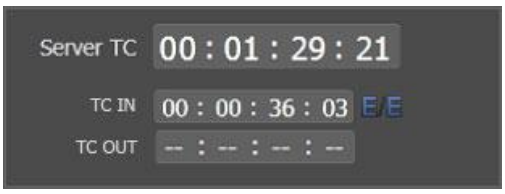
5.4.2 Timecode Edition Rules

Note

XFly. Streamer checks the validity of timecode values manually entered by user. If a wrong value is entered, the TC field is cleared.

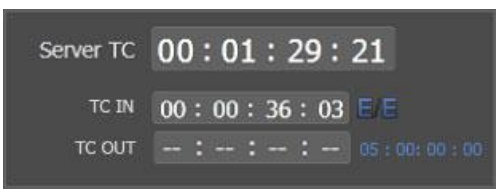
Click in the TC IN field and enter manually a TC value.

The E/E button (to return to current TC) appears



Clicking the **Record** button starts all recordings from this TC IN value.

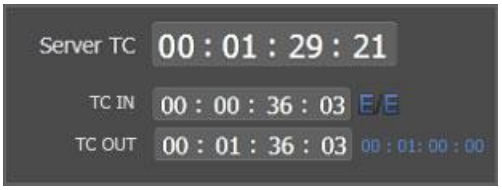
The Duration field is updated according to the maximum duration defined in the Settings area.



The maximum duration is still up to 300 minutes. When entering a TC OUT value, XFly Streamer checks if the maximum duration is not reached.

At any time, the user can edit the TC OUT value. The Duration field is updated with the exact duration.

Clicking the **Stop** button updates the TC OUT and Duration fields accordingly:



The TC IN, TC OUT and Duration information remain on the screen until the jobs are all finalized. Then the Timecode area is cleared.

5.5 Settings

The settings defined in this area are memorized, and will be restored at next start of the application.

5.5.1 Wrapper Selection

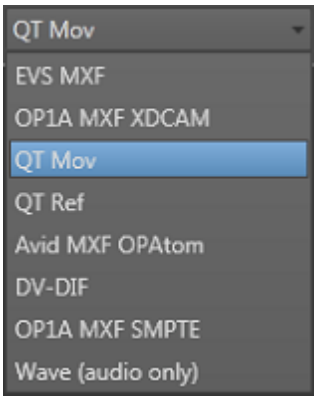
Important

XTAccess is restricted to file transfer with wrapping when required, but cannot perform any format transcoding.

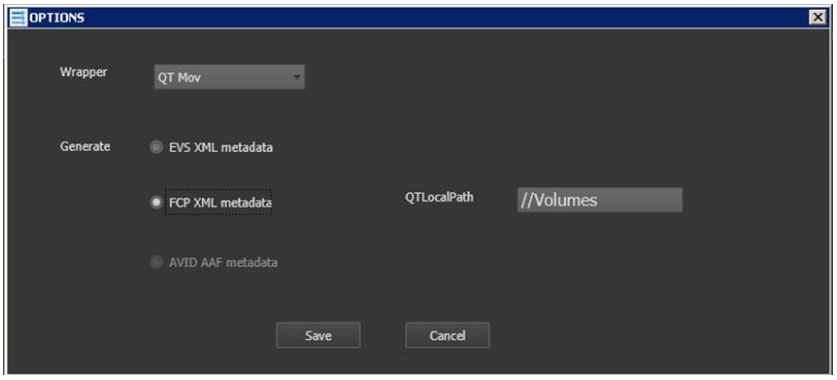
The available wrappers are:

- EVS MXF
- OP1a MXFXDCAM
- QuickTime Movie
- QuickTime Reference
- Avid MXF OPAtom
- DV-DIF
- OP1a MXF SMPTE
- Wave (audio only)

Clicking on the arrow on the right will display the list of available wrappers:



Click the Options button for more parameters:



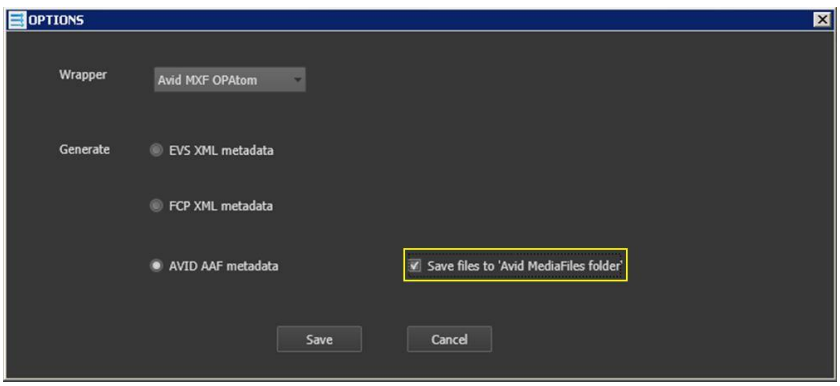
For generating **EVS XML metadata**, select the first option. This EVS metadata file can be generated with all wrappers.

For generating **FCP XML metadata** select the second option. This FCP metadata file can be generated only when **QT Movie** and **QT Reference** wrappers are selected and is set by default.

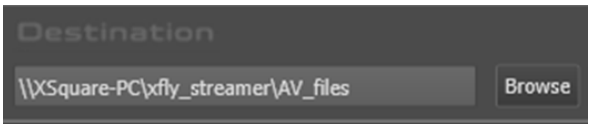
An additional parameter: <QTLocalPath>**\\\Volumes**</Local Path> is required to be compatible with MAC OS. This information will be embedded in the resulting XML file.

For generating **AVID AAF metadata** select the second option. This AAF metadata file can be generated only when **AVID MXF OPAtom** wrapper is selected.

An additional parameter is available to create the structure of Avid Media Files folders. Selecting this parameter will create (and share) **/Avid MediaFiles/MXF/1** folders on your local drive (drive S: for XFLY device). All new Avid MXF OPAtom files will be saved to these folders/sub-folders.



5.5.2 Destination Selection

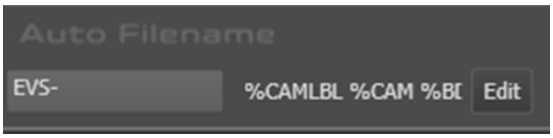


The Destination field specifies the path where the AV files will be saved, for all channels.

Note

The files can be saved to **shared** folders only.

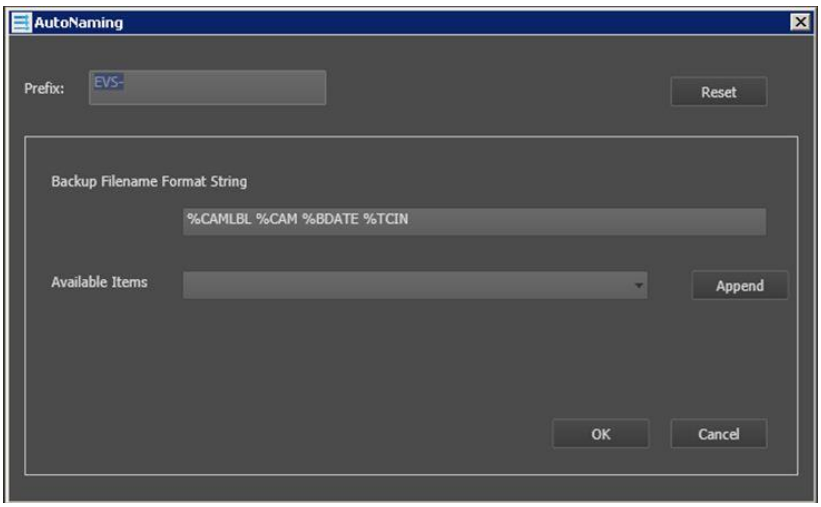
5.5.3 Auto Filename Definition



The filename is user-defined and can be modified as desired.

A direct access to the **Prefix** field allows the user to set a different name to each recording, for example: Take01, Take02…

Click the **Edit** button to change the autonaming pattern:



Click the **Reset** button to restore the default filename.

Modify the Backup Filename Format String

In the Backup Filename Format String field, delete/modify the default items,

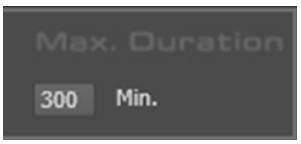
To add information, select an item from the **Available Items** drop-down list:

Click the Append button to add the selected item at the end of the field.

If necessary, modify the position of the items in the field with the cut/paste commands **(CTRL + X, CTRL + V).**

Finally, click **OK** to validate.

5.5.4 Maximum Duration Setting



In case a stream is a backup with endless command, the application will stop the backup when the maximum duration defined in this field has been reached.

The default value is 300 minutes and the value can be set from 1 to 300 minutes.

5.6 The About Window

Clicking on the icon  opens the About window:

This window displays the following items:

- The XFly Streamer application version.
- A link to this User Manual in digital format.
- A list of EVS technical support emails and phones if you need further assistance with this product.


EVS About Window
XFlyStreamer
v01.02.03
User Manual
ASIA & PACIFIC
TechLine Support:
support@evs.tv
Tech. Line
Hong Kong
+852 94 01 23 95
China
+86 139 1028 9860
NORTH AMERICA & LATIN AMERICA
TechLine Support:
USAsupport@evs.tv
Tech. Line
USA
+1 973 575 7813
CANADA
+1 514 400 9369
MEXICO
+52 55 46 31 22 09
EUROPE, MIDDLE EAST & AFRICA
TechLine Support:
support@evs.tv
Tech. Line
Belgium
+32 495 284 000
France
+33 1 46 99 9000
Italy
+39 334 63 11 493
UK
+32 495 284 000
Middle East
+32 495 284 000
Iberica
+34 91 490 39 34
Deutschland
+49 89 4111 949 77

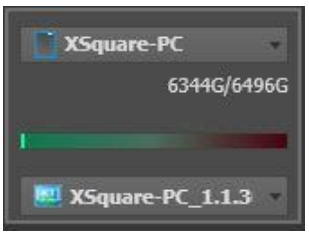
6. Operation

6.1 How to Record Streams

To start the recording, proceed as follows:

1. Click this shortcut to launch the XFly. Streamer software. The following screen appears:

2. Select the XFly hardware (storing device) and the processing device (i.e. XTAccess) from the two drop-down lists in the upper left corner. The local system and software if present always appear in bold at the top of the list.



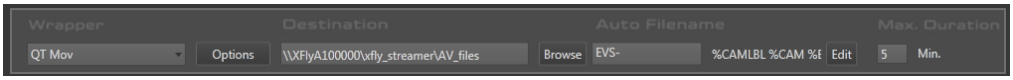
3. Then check a server family to filter the servers list:

4. Into the server list, click the server drop-down list to display the list of available channels:

The selected channel is now displayed in the channel area with thumbnails generation to preview the channel:

5. Repeat step 4 to select all channels desired.

6. Check and, if necessary, modify the wrapper selected, the destination path to save the file, the format string for automatic file naming, and/or the maximum recording duration.



7. Then click the **Record** button to start the recording:

The **Record** button lights red, and a red frame is displayed around each channel. All selections and settings are disabled during the recording.

8. Click the **Stop** button to stop the recording:

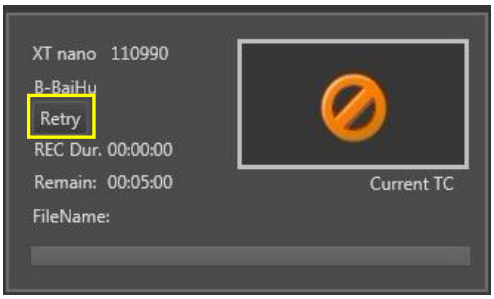
Note

As the backup files need to close properly, it can however take some time before all jobs are finalized.

6.2 How to Retry Streaming Jobs One by One

When a job has failed, a retry command is available in the Channel pane.

The user has the possibility to retry the job without stopping or re-starting the other jobs in progress.



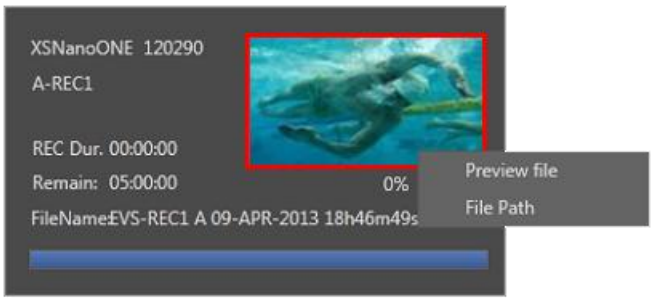
The **Retry** button is only available for the job(s) failed in the same channel pane.

And the **Retry** command is only available for streaming jobs.

6.3 New! How to Preview Files?

While recording files, you can control the quality of the file with the **XViewer** application. This application is installed with the XFLY.Streamer package.

Right-Click in the thumbnail to open the following menu:



Preview file: selecting this item launches the XViewer app with the selected file opened in E/E mode

File Path: selecting this item opens the Windows explorer window with the selected path