USER MANUAL

Version 2.20 – December 2013

XFile

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Improvement Requests

Your comments will help us improve the quality of the user documentation. Do not hesitate to send improvement requests, or report any error or inaccuracy on this user manual by e-mail to doc@evs.com.

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 on the EVS website on the following page: 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/downloadcenter.

Table of Contents

What's New?

The following table describes the sections updated to reflect the new and modified features on XFile 2.20.

In the user manual, the icon NEW ! has been added on the left margin to highlight information on new and updated features. The changes linked to new features in version 2.20 are listed below.

LinX mode available in addition to SDTI mode to be used with EVS servers working in 3GbE SDTI.

- See section 3.1.1 "Network Setup", on page 7.

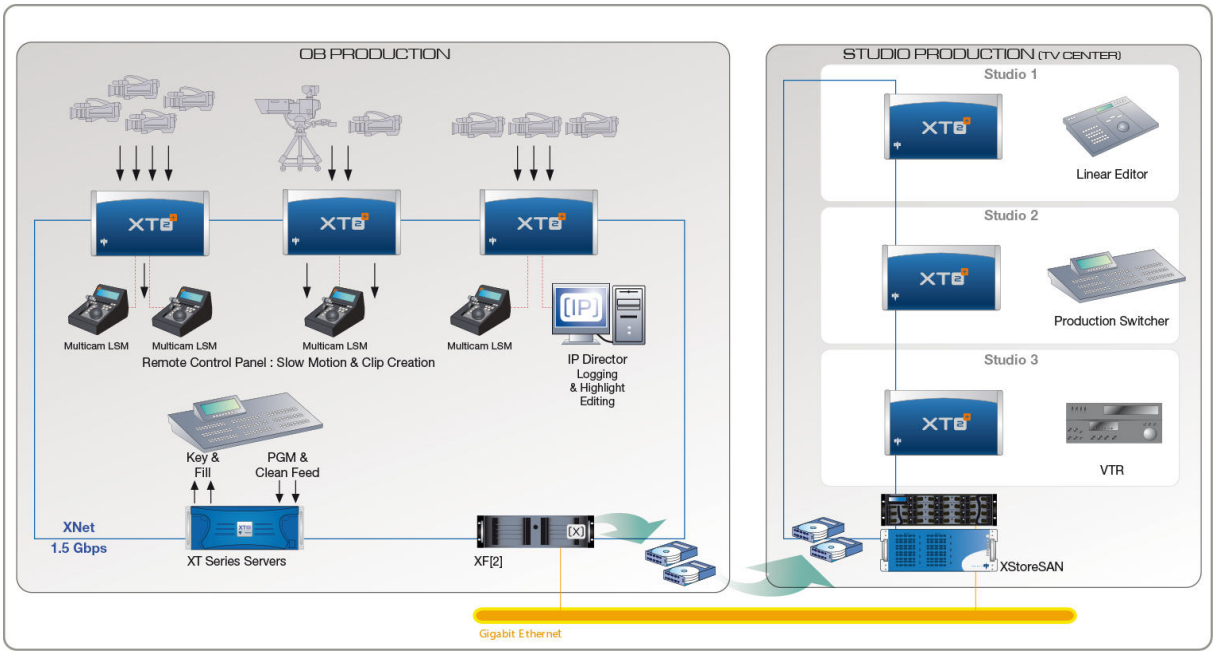
Publish and AutoPublish modes not available in LinX mode

- See section 3.3.4 "Tab 4 – Scan Folder", on page 30.
- See section 3.8 "Publish Mode", on page 79.

1. Introduction

Digital Archiving on Removable Media

The XFile has access to all footage recorded on EVS video servers through the SDTI or the Gigabit network. When a clip is created on one of the servers, a copy is automatically transferred to XFile in the file format selected in the setup.



This copy is a background process, and has a lower priority on the network compared to real-time transfers between servers for remote playback, in order not to disturb the live production in any way. If the network is not very busy, the transfer to the removable media can be performed several times faster than real-time. As soon as real-time transfers are required on the network, the backup process is slowed down to make enough bandwidth available to guarantee these new requests.

Each clip is saved as a separate file on the removable media, including not only video, audio and time code information, but also all metadata associated with that clip: name, descriptors, creation date, original location (server s/n, register), etc. The transfer between an EVS video server to the XFile is a data transfer, i.e. no decoding/encoding process takes place at any point, preserving the original quality of the footage, including super-motion character if applicable.

The XFile is installed on a XF2 which is equipped with 2 removable media. They can work as mirrored drives: each clip is automatically saved as 2 separate files on these drives. This provides a security copy in case of drive failure, and also gives the possibility to send these 2 drives to 2 different locations/studios after the show. Each removable media has a capacity of 1 TB or 2TB, 85 or 170 hours of footage at standard bit-rate. More XFile stations can be inserted on the network if more archive copies are required.

The XFile can also be used as a security backup of the network: should one server lose its footage for any reason (accidental delete for instance), clips can be restored from the XFile to any other EVS video server on the network.

All Super-motion clips, created on any networked EVS video server, are stored by XFile amongst the normal files. The 75 fps nature of such material is maintained during archiving and is restored in a single pass without alteration. Therefore, restored Super-motion clips can be re-used as Super-motion footage (playback at 33%) or as a standard material (variable speed) just as if they were captured from the super-motion camera just now.

Note

The Appendix 1, on page 179, provides more technical information related to the XF2 hardware and is intended to administrators.

2. Software Installation

Warning

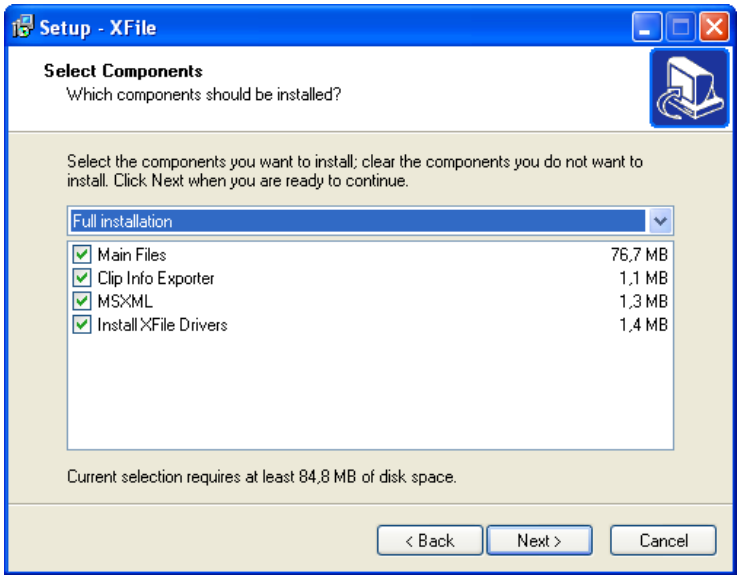
The XFILE 2.19 installers include the XFILE and XSTREAM installers, the Clip Info Exporter installer, the PCX2 drivers and the EVS Logs collector installer. **Prior to install XFILE 2.19 uninstall the previous versions of XFILE and XSTREAM.**

1. Run XFILE INSTALLER and follow the steps of the Setup Wizard:

   The installer includes a registry key that disables the autorun function on USB keys to avoid virus intrusion.

2. Accept the software license agreement.

3. Select the items to install in the Selection Components window:

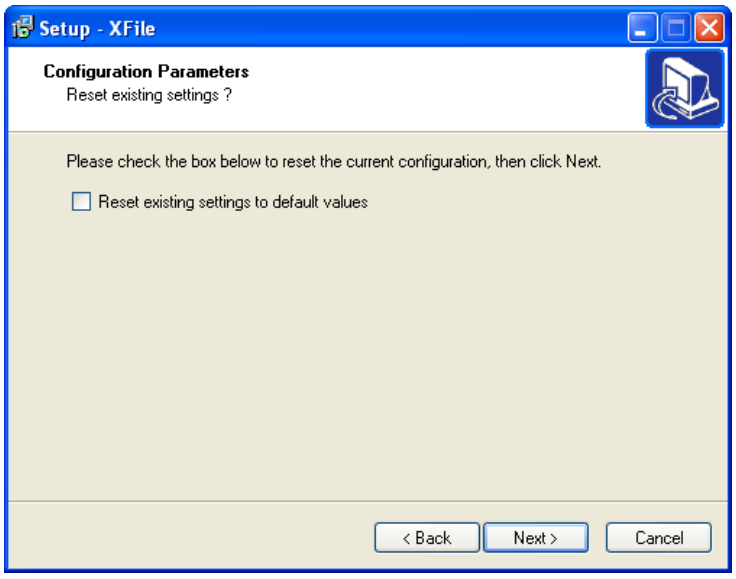


- Main files which include XFILE and XSTREAM installers
- Clip Info Exporter
- MSXML
- Drivers of PCX2 board

Click **Next**.

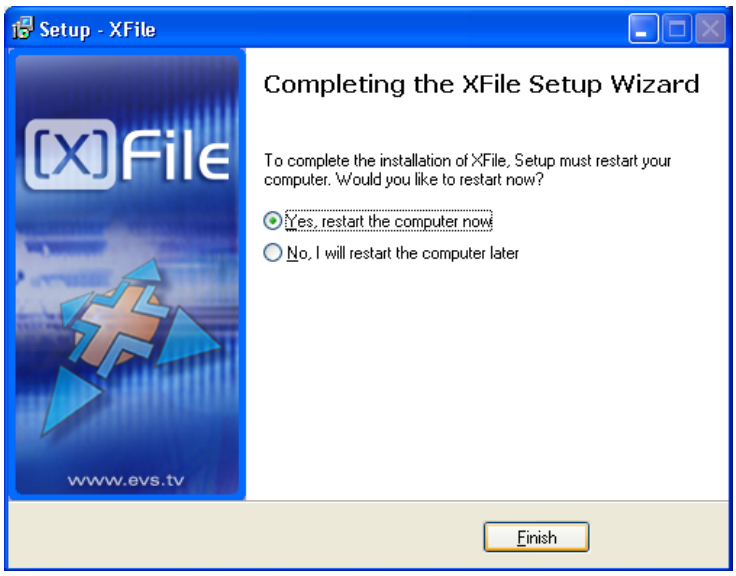
4. In the next window, select the destination directory to install the new software and click **Next**.
5. In the Configuration Parameters window, select the **RESET EXISTING SETTINGS** option, if required, and click **Next** to continue.

   This will reset all operational parameters (like SDTI speed, Video Standard, database size, net name and net number, etc.) to default parameters.



6. In the Ready to Install window, select **INSTALL** to start the installation of the main files. A progress bar shows the activity of files transfer.

7. The Setup wizard needs to restart the computer to complete the installation: select one of the two options and then click **Finish** to quit the installation process.



After re-start, the XFile installation is successfully completed and an XFile shortcut is saved to your desktop.

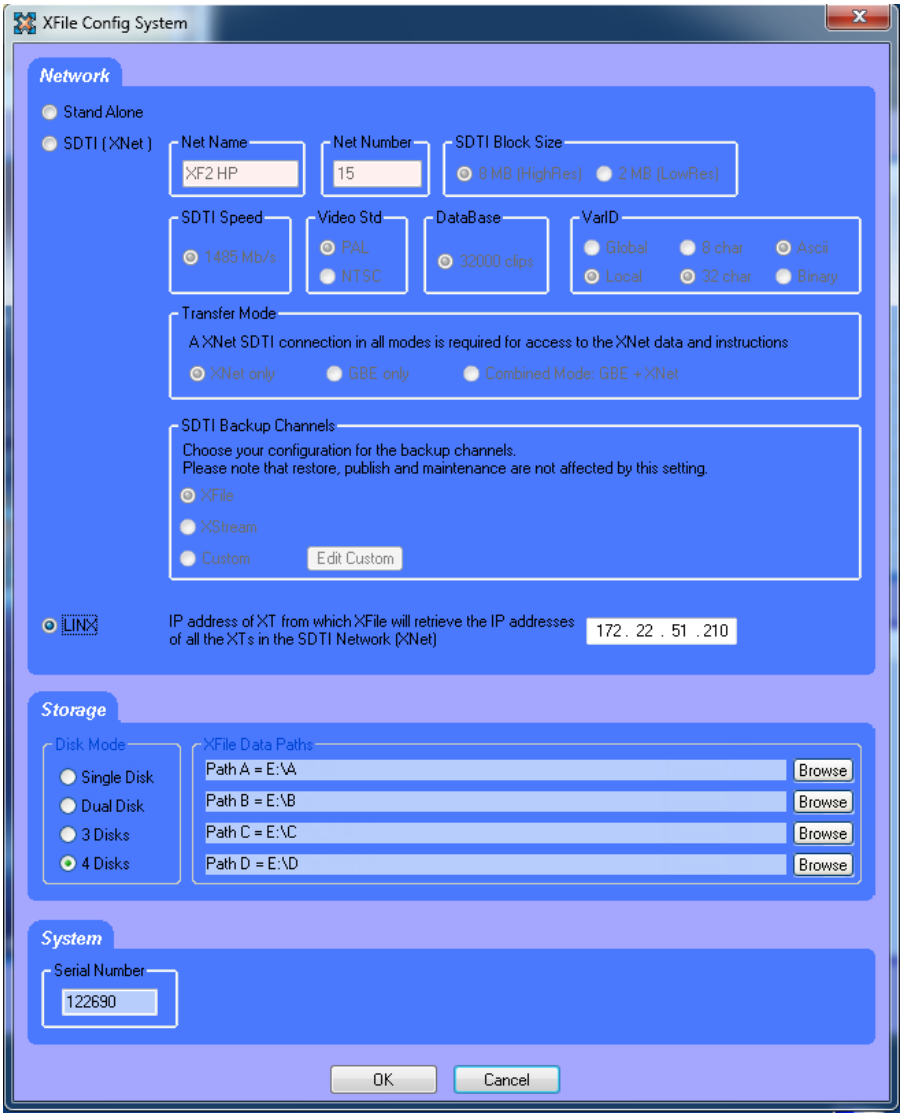
3. XFile Module

Note

XFile and XStream applications work simultaneously into 2 separate windows but share the same bandwidth for all operations. To access to the XFile or XStream window select the item from the taskbar.

3.1 System Configuration

The system configuration window is only available for modifications from the Start page before startup: system parameters are required to complete the boot sequence and to connect to the XNet. During operations, this window will be displayed in read-only mode for information.



3.1.1 Network Setup

Network Connection Mode

XFile can work in three modes as far as the connection to the network is concerned. In the XFile Config System window, you first select the requested mode by means of the corresponding radio button:

- **Standalone Mode**

  The standalone mode allows the operator to start the XFile without being connected to the XNet. In this mode only the maintenance mode is active.

- **SDTI Mode**

  The SDTI mode uses the SDTI and/or Gigabit network to transfer metadata and A/V material. In this mode, the SDTI connection is always necessary for data transfer. It is used when the EVS servers work in 1.5 GbE SDTI.

NEW !

- **LinX Mode**

  The LinX mode uses only the Gigabit network to transfer metadata and A/V material. It must be used when the EVS servers work in 3GbE SDTI.

  When XFile runs in LinX mode, this is specified in the title bar of the open window.

Warning

The bandwidth, the video standard and the Database Size must be identical on all machines connected to the XNet. If one system is configured with a different bandwidth, video standard or database size, it will block the entire network.

XFile Identification on the Network

Net Name

The Net name defines the machine name on the network. This name is user-defined and can exceed 8 characters, but only 8 characters will be visible from the XNet views. Entering a Network Name is not mandatory because a network number is automatically given to the system, but it is recommended to name the machines in order to easily identify all systems connected to XNet.

Net Number

Range: [1 … 29]

The Net number defines the machine number on the network. This number is user-defined.

Common Parameters on the XNet Network

The values defined for the following parameters need to be the same on all EVS video servers on the XNet network.

SDTI Block Size (8MB HighRes/2MB LowRes)

This parameter specifies the size of the media blocks recorded on the EVS video servers of the XNet network.

In hi-res, the block size will be 8MB from Multicam V9.00.

In lo-res, the block size will be 2 MB on EVS video servers dedicated to lo-res content.

SDTI Speed (1485Mbps)

This parameter specifies the bandwidth of the network.

Video Standard (PAL/NTSC)

This parameter specifies the video standard. NTSC format is also applicable for HD formats.

Database Size (32000 clips)

This parameter specifies the maximum number of clips saved to the LSM database.

VarID Uniqueness (Global / Local)

This parameter specifies at which level the VarID is unique:

- **Global**: the VarID is unique at the XNet network level
- **Local**: the VarID is unique at the EVS video server level.

VarID Length (8 char / 32 char)

This parameter specifies the VarID length:

- Fixed length of 8 bytes
- Variable length of 32 bytes

VarID Format (ASCII / Binary)

This parameter specifies the VarID format:

- ASCII
- Binary

Note

The **VarID** will only be displayed in the XFile application if this has the ASCII format. Otherwise, the string **<Unicode>** will be displayed in the VarID column of the XFile lists in the various XFile modes.

3.1.2 Transfer Mode

Three different operational modes are available: XNet only, GBE only and a combined mode GBE + XNet.

Note

An SDTI connection is still required in all modes to access the data.

XNet Only

All the transfers are processed through the XNet.

GBE Only

Transfers for backup, i.e. backup clip, backup train (XStream), and restore operations are processed through the Ethernet network. However, the following operations are still performed through the XNet: Publish, Grab, Render Playlist, and data access. That is the reason why an SDTI connection is still required in GBE Only mode.

Combined Mode GBE + XNet

This combined mode permits the transfers through the XNet when the Gigabit network is not available, e.g. in case of disconnection of one server from the Gigabit network.

3.1.3 Backup Channel Assignment

Seven backup channels are available. You will assign them according to your backup needs.

Two predefined configurations are available and are described below. If the predefined configurations do not meet your requirements, you can define a customized configuration.

The backup channel assignment will only affect the XFile and XStream backup modes. They will not impact on the Restore, Publish and Maintenance modes.

Predefined Configurations

The following predefined configurations are available:

XFile Configuration

The XFile configuration provides the following backup functions:

- 1 channel for clip backups (XFile)
- 1 channel for playlist backups (XFile)
- 1 channel for thumbnail and image grabs (XFile)
- 3 channels for train backup (XStream)

- 1 channel for browsing in XStream

XStream Configuration

The XStream configuration provides the following backup functions:

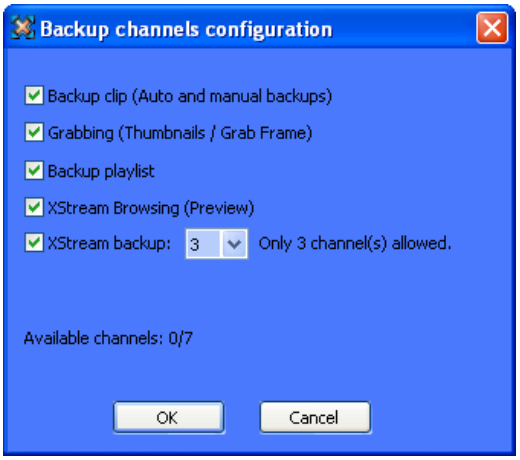
- 6 channels for train backup (XStream)
- 1 channel for browsing in XStream

Warning

As this configuration does not provide clip and playlist backups, or grabs, no thumbnails will be available for clips in the IPDirector application.

Custom Configuration

When you select the **Custom** radio button in the Network area and click the **Edit Custom** button, the Channels Configuration dialog box opens. It allows the users to define how they want to assign the XFile backup channels:



The following fields are available in the Backup Channels Configuration dialog box:

Backup Clip

Selecting this check will enable the clip backup (auto backup or manual backup) and assign one backup channel to the clip backup.

Grab

Selecting this check box will enable the thumbnail and image grabs and assign one backup channel the grab function.

Backup Playlist

Selecting this check box will enable the playlist rendering and assign one backup channel to this function.

XStream Browsing

Selecting this check box will allow the users to browse in the backed up trains in XStream and will assign one backup channel to this function.

XStream Backup

Selecting this check box will enable the backup of record trains by XStream.

You also need to select the number of channels to assign to this function with the drop-down list on the right of the check box. Possible values are 1, 2, 3, 4 and 6.

Taking into account the backup functions selected above in the dialog box, the application displays the maximum number of channels which can be assigned to the XStream backup on the right of the drop-down list.

This information is highlighted in red when the number of channels assigned is higher than the maximum supported number.

If you assign more channels than supported in the defined configuration, the system will automatically adapt the number of assigned channels when the configuration is saved.

Available Channels

Read-only display of the available channels depending on the backup functions selected in the dialog box.

OK

Clicking the **OK** button will confirm and save the defined configuration.

Cancel

Clicking the **Cancel** button will cancel the changes and brings the users back to the XFile Config System window.

3.1.4 Storage Area

Disk Mode

The Disk Mode defines the maximum number of disks, or paths, which can be used to save the backup files. One to 4 disks can be selected.

Refer to section ‘Disk Writing Mode’ on page 29 for additional information.

Path A / B / C / D

This specifies the destinations to save the backup files. Depending on the Disk mode selection, up to 4 paths are active for modifications.

Warning

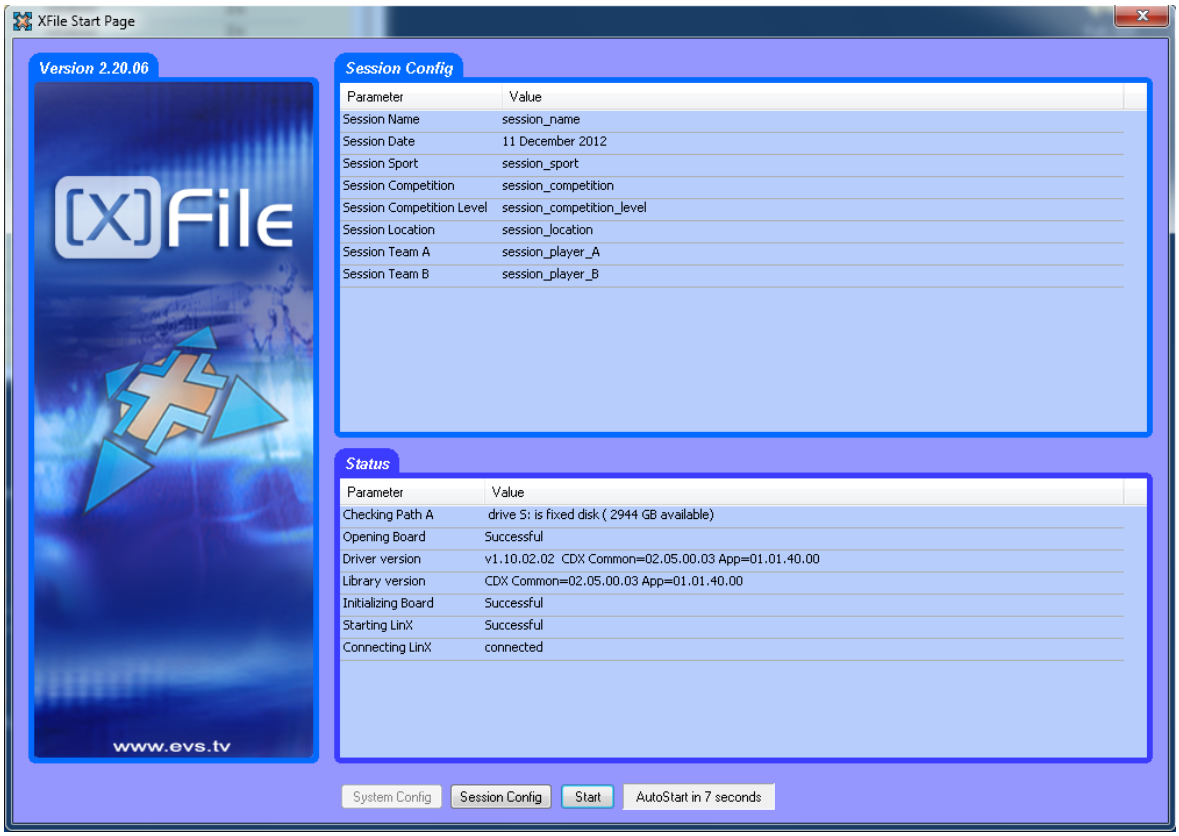
At startup, only the clips saved into the Path(s) are scanned. This means only those clips, data included, will be accessible and display in the XFile list.

3.1.5 System Area

Serial Number

The serial number of the system is defined during the first installshield process and cannot be modified afterwards. The S/N is also written on the back plate of the mainframe.

3.2 Startup

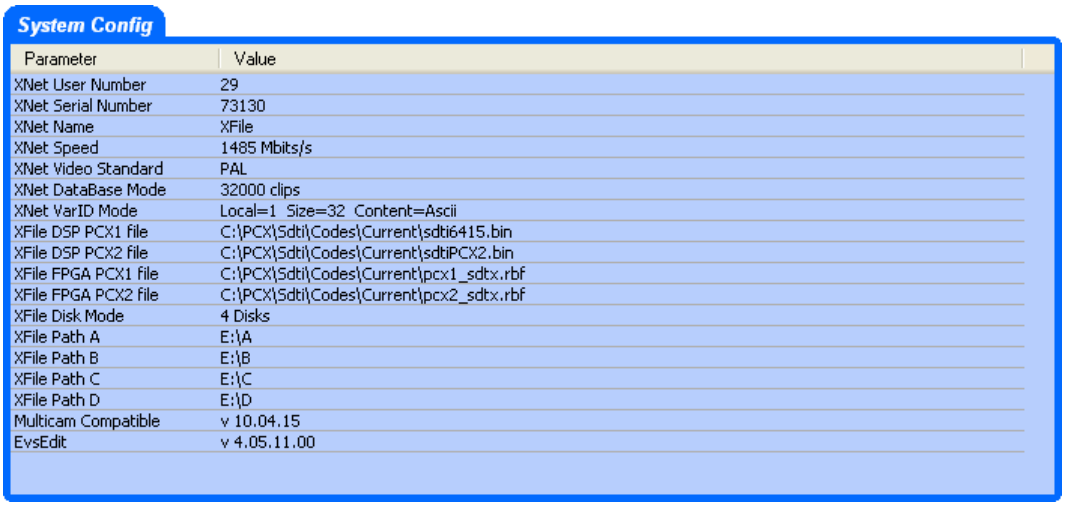


At first start the upper part of the window displays the System Configuration area.

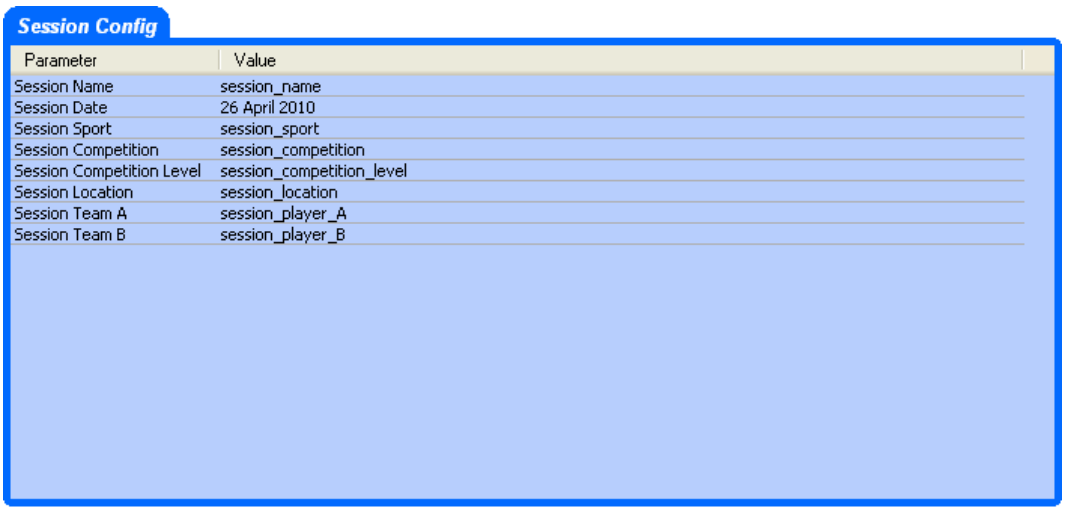
3.2.1 System Configuration Area

This field displays the current parameters of the system. Some relevant parameters are required to connect to the XNet.

If an error message is displayed facing one of the parameters, click on the **System Config** button to enter the System configuration window.



If the values are coherent, click **START**: the **System Config** area is replaced by the **Session Config** area:



3.2.2 Status Area

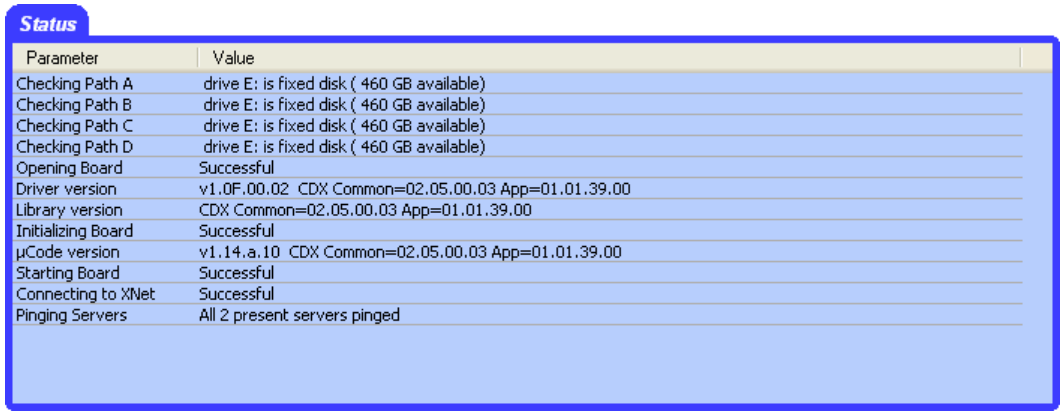
The aim of this area is to check the hardware validity, the remaining capacity of disks and to verify the compatibility between the software, the drivers and the data recorded.

The system automatically starts the test processing. One after the other, the different stages of the boot sequence are displayed in the Status window.

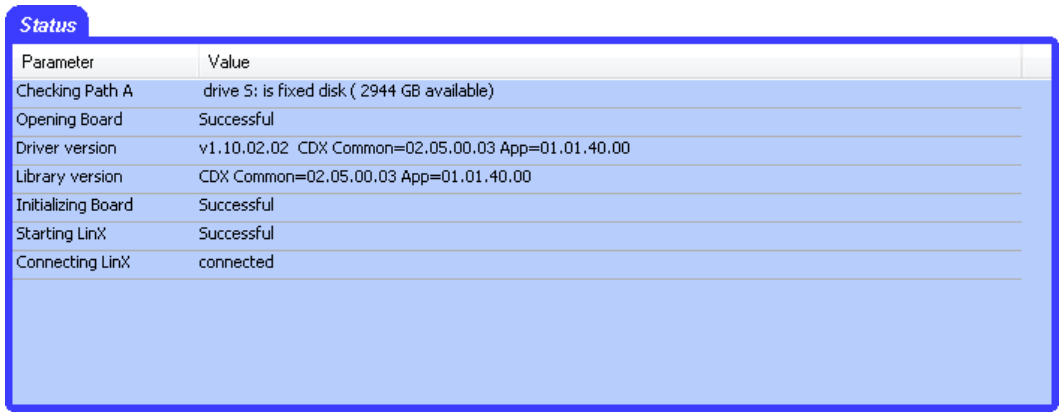
If an error occurs during one stage, write the message down and contact EVS staff for support.

The last test is the connection to the XNet.

The screenshot below shows the status area when you connect to the network in SDTI mode:

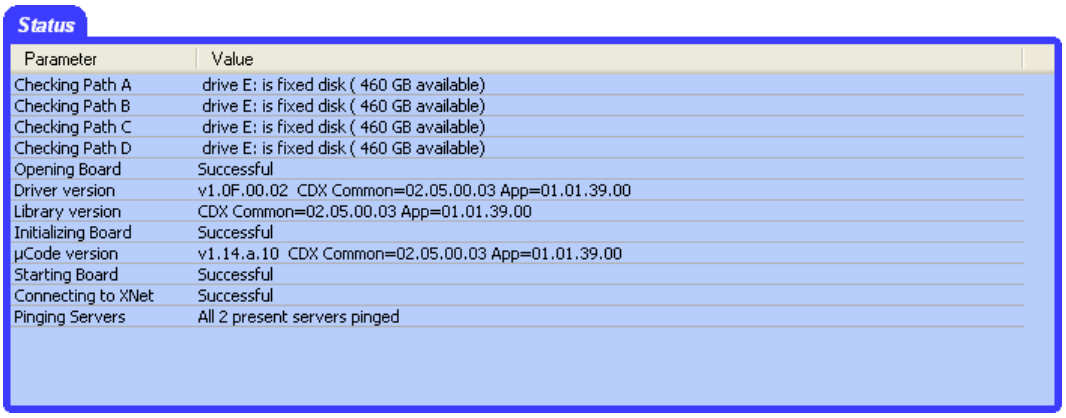


The screenshot below shows the status area when you connect to the network in LinX mode:



Note

In GBE Only mode, a longer starting sequence is needed to ping all the servers.

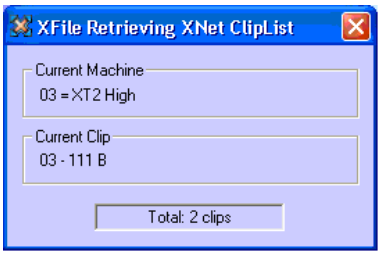


If all these stages are successful, the XFile is ready to operate.

Click the **Start** button again to enter the application.

3.2.3 Automatic Processes at Startup

After the startup, the system automatically starts two operations: the Scanning Disk process and the Scanning Network process.



Those operations might last a few seconds depending on the number of clips present on disk and the number of clips present on the XNet.

3.3 Session Configuration

Once the XFile application is started, the users can define the session configuration by selecting **Configuration > Config Session** from the main menu.

The session configuration window is divided into 8 tabs:

Tab 1 – Autobackup

Tab 2 – MXF Metadata

Tab 3 – Manual Backup

Tab 4 – Scan Folder

Tab 5 – Grab

Tab 6 – Export

Tab 7 – XML

Tab 8 – User Parameters

3.3.1 Tab 1 – Autobackup

XFile allows the users to define three different selections of servers, cameras and pages from which backing clips up in Autobackup mode.

For the three selections, the output files can be saved with different formats, and to different paths.

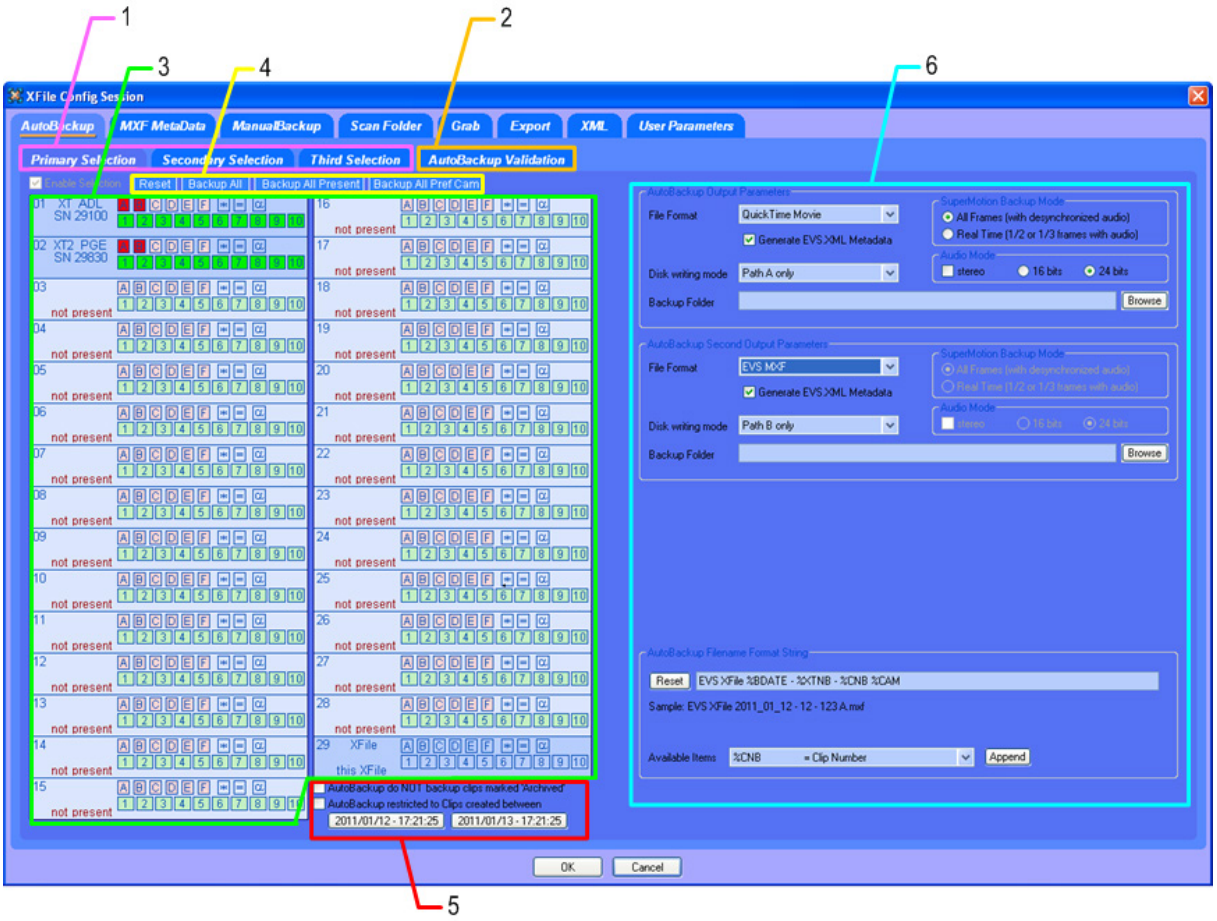
In addition, each selection can be saved to a second output as soon as 2 disks are available.

The Autobackup tab contains 4 sub-tabs highlighted in the next screenshot:

- Primary Selection (1)
- Secondary Selection (1)
- Third Selection (1)
- Autobackup Validation (2), displaying the current selection of Autobackup

Each of the three Selection tabs includes several areas:

- Selection list (3)
- Selection shortcuts (4)
- Additional autobackup criteria (5)
- Output parameters (6)



Selection Tabs

To allow a secondary selection and a third selection to be backed up, you need to select the Enable Selection checkbox in the respective tabs.

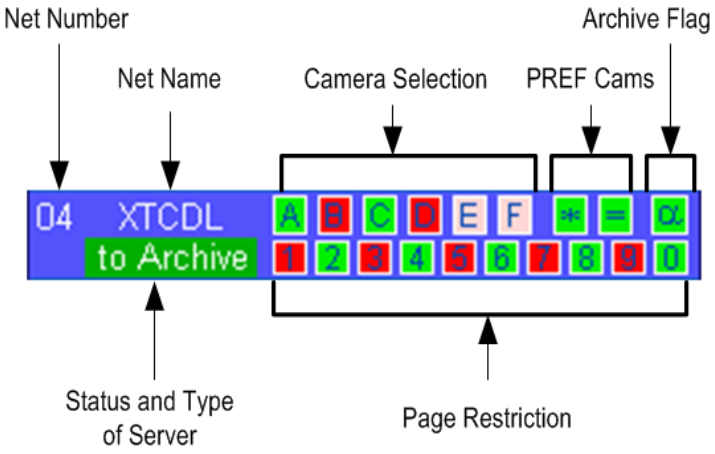
Selection List

This selection list is only active while the Autobackup mode is disabled.

In the Autobackup Selection list, all systems connected to the XNet are listed by net numbers.

Server Selection

When a server is selected, it is displayed on a bright blue background, as shown in the following screenshot.



For each system selected for the autobackup, you can combine several criteria to select the video material to be included in the autobackup.

Camera Selection

The camera selection criterion makes it possible to select the cameras to be included in the autobackup. By default, the cameras are not selected.

The color code used for camera selection is the following:

Background color	Meaning
Bright red	Camera available and not selected
Bright green	Camera available and selected
Pale red	Camera not available and not selected
Pale green	Camera not available and selected

PREF Cams

The **Pref Cams** criterion makes it possible to include in the autobackup the clips that were recorded on any camera defined as the first preferential camera (*) or on the second preferential camera (=).

The color code used for the **PREF Cams** flag, as well as for the **Archive** flag, is the following:

Background color	Meaning
Green	Flag selected
Blue	Flag not selected

Archive Flag

The **Archive Flag** criterion (α) makes it possible to include in the autobackup the clips for which a backup request has been sent from a Remote panel controlling an EVS video server of the XNet network. The backup request is sent via the **> Archive** option available in the secondary menu of the Remote panel in clip mode.

The XFile will backup such clips even if the **Default XFile** parameter on that Remote Panel has not been selected. In this case, the archive flag (set to ‘1’ when the clip is backed up on the default XFile) will not be set to ‘1’ after the backup process.

Page Restriction

By default, all pages are included in the autobackup process. The user should click the page(s) to be excluded from the autobackup.

The page restriction will apply to any of the other selection criteria defined, i.e. camera, PREF cams and Archive flag.

The color code used for page restriction is the following:

Background color	Meaning
Green	Selected page
Red	Deselected page

Criteria Combination

The criteria **Camera selection**, **PREF Cams** and **Archive Flag** will be taken into account individually. Refer to example 1.

The criteria **Page Restriction** will restrict the selection on any of the other criteria selected. Refer to example 2.

Example 1

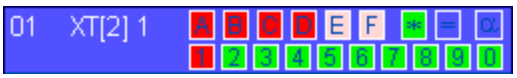
If you select CAM A and * (first preferential camera), the following clips will be included in the autobackup:

- all the clips recorded on CAM A

AND

- all the clips created on any other camera defined as the first preferential camera

Example 2



If you select the first preferential camera criterion (*) and exclude page 1, the clips will be selected as follows:

- The clips stored on a page 1 of the selected server **and** created on a CAM defined as the first preferential camera will be excluded from the autobackup.
- All other clips created on a CAM defined as the first preferential camera will be included in the autobackup.

How to Select the Material to Autobackup

To select the material to autobackup, proceed as follows:

1. First select the server to backup. The selected line changes to dark blue.
2. Select the camera angles desired to be part of the autobackup process. Selected cameras appear on a bright green background.
3. Select the PREF cams or Archive Flag criteria if desired.
4. Select the pages that you want to exclude from the autobackup process. Excluded pages appear on a bright red background.
5. Click **OK** to confirm the selection and to close the XFile Config Session window.
6. Click the **Autobackup** button in the main XFile window.

Note

For the AirBox and SpotBox servers, all cameras must be selected.

Selection Shortcuts

Different shortcuts are available to select cameras or systems with ease:

Shortcut button	Description
Reset	It clears all selections

Backup all	It selects all cameras and all pages of all systems. New systems being connected will also be backed up.
Backup all Present	It selects all cameras and all pages of all systems currently connected to the network.
Backup all PREF cam	It selects all preferential cameras and all pages of all systems currently connected to the network.

Additional Autobackup Criteria

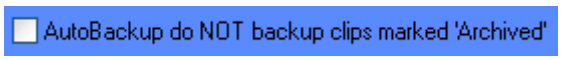
Archive Status

The basic working of the XFile is to compare the content of its disks with the clips present on the XNet. According to the result, the missing clips on disk will be automatically backed up.

If several disks are required to back a complete session up, the Archive status must be kept to avoid a second backup of same clips while changing the disks.

Three conditions are required to validate the Archive status:

1. Before the Autobackup session, place a checkmark in the following box:

2. Set the 'DEFAULT XFILE' parameter in the Setup menu of your EVS video server. (See Multicam documentation for complete information).

   The 

   label appears on the line of the EVS video server if the 'DEFAULT XFILE' has been correctly defined.

3. Activate the AUTOBACKUP by clicking the 

   button in the XFile main window.

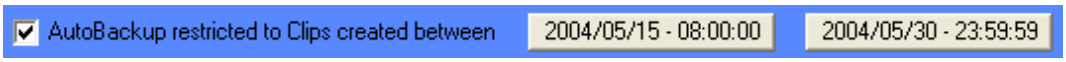
Note

The **Default XFile** setting allows the user to initiate the backup of a clip from the EVS video server via the **>ARCHIVE** command (see Multicam documentation for details).

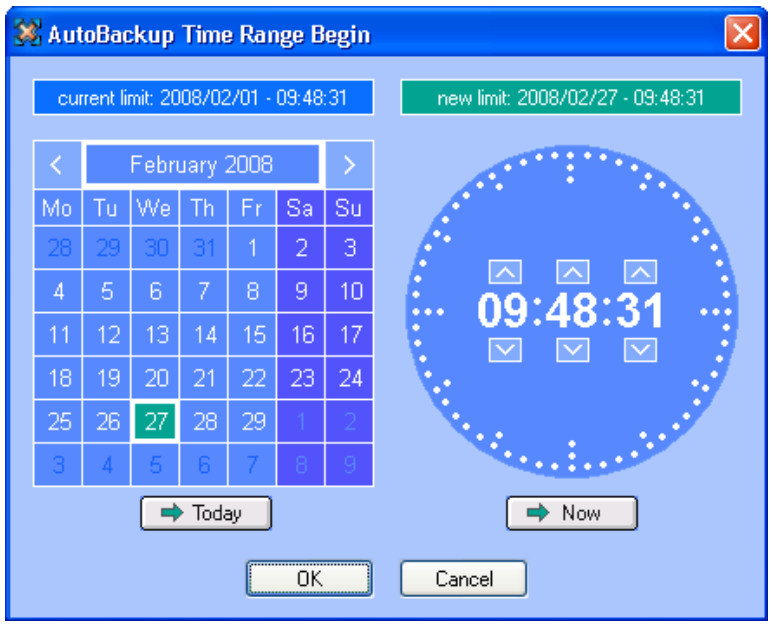
The **Archive Flag**  also initiates the backup of a clip as requested by the **>ARCHIVE** command even if the **Default XFile** is not set, but the Archive status on the EVS video server is not updated.

Time Range

The autobackup session can be defined for a specific duration.



Select the check-box to activate the time range filter and click one of the **Time Range Selection** button to access this window:



The Time Range filter requires a start date and time, as well as an end date and time, to be valid:

1. In the calendar, select the month with the left and right arrows, then the day of the month.
2. In the **Time** field, select the hour using the up and down arrows to change the value displayed or directly type the value when the field lights green.
3. Click **OK** to confirm your selection.
4. Enter the second selection window to enter the values for the end limit.

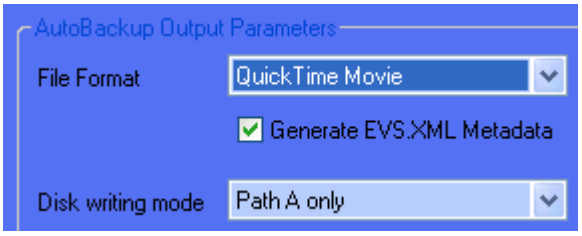
The Autobackup criterion is now active and only the clips created into the time range will be backed up.

Output Parameters

Note

A warning message is displayed in case the same path and the same file format are selected in the three selection tabs.

Output File Format



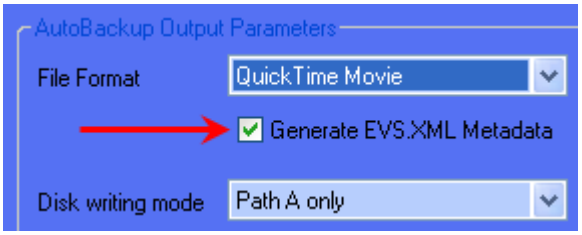
The following setting makes it possible to choose the format in which the backup files from the selection will be automatically generated.

The **AutoBackup Output Parameters > File Format** drop-down list allows the user to select the default file format for the clips backed up with the autobackup process.

The following formats are available:

- EVS MXF
- MXF OP1a (SD IMX only)
- Quick Time Movie
- Quick Time Reference
- Avid Ingest Device
- CleanEdit Reference
- Avid MXF OPAtom
- MXF OP1a (Std SMPTE)

Generating an XML Metadata File



When the **AutoBackup Output Parameters > Generate EVS XML Metadata** check-box is selected, an XML file with the metadata of the clips backed up in the autobackup process is generated. This file is created at the same time as the backup file for all media file formats.

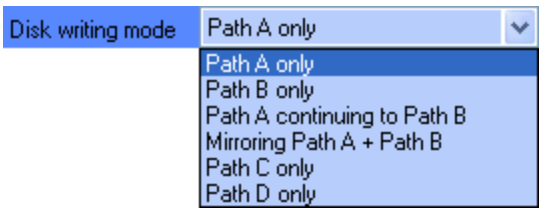
The XML file is saved in the same folder as the backup file. It has the same name as the backup file, followed by the <.evs.xml> extension.

With the **EVS MXF** file format, the metadata is included in the header of the media file itself. As some systems cannot read the MXF header, it is possible to generate an XML metadata file for an EVS MXF file to gain access to the metadata. When changes are made to the metadata, the EVS MXF header and the EVS XML files are updated simultaneously but priority is given to the XML file to read the metadata.

Warning

Always activate this parameter if your backup files include other formats than EVS MXF. Otherwise, you will not be able to view and manipulate these files in XFile.

Disk Writing Mode



The available options in the **Disk Writing Mode** field depend on the Disk Mode selected in the Storage area of the XFile Config System window:

In **Single Disk mode**, only one path (Path A) will be available in the list.

In **Dual Disk mode**, the system can

- write on a single disk, Path A only or Path B only
- write on the first disk and then automatically switch to the second disk when the first one is full, or
- write on both disks simultaneously (mirroring).

In **3 disks mode**, all the options available in Dual Disk Mode are available, in addition to the **Path C only** option.

In **4 disks mode**, all the options available in 3 Disks Mode are available, in addition to the **Path D only** option.

Warning

Prior to modify the Disk Writing Mode, it is strongly recommended to check the synchronization between the paths, especially when clips have already been backed up in the involved paths. Otherwise, this could results in data inconsistencies.

Backup Folder

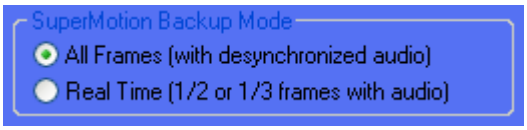
The **Backup Folder** field specifies the folder destination to save the backup files. It must be located in an XFile path. Enter a folder name directly in the **Backup Folder** field or click the **Browse** button to select a folder. If you enter the name for a new folder in the **Backup Folder** field, the folder will be created at first backup.

The system checks the clips present into the session folder and its sub-folders. If a clip is not present and fulfills the criteria defined in the Autobackup selection tab, this clip is automatically backed up.

Note

In dual disk mode, when the first disk is full, the system automatically switches to the same folder of the second disk.

Super Motion Backup Mode



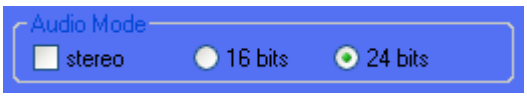
Super Slow Motion (SSLM) clips can be obtained by generating a single flow from 2 or 3 cameras. So, 2 or 3 pictures have the same timecode and, when a SSLM clip is played with all frames in the Edit Clip module, the duration is twice (with 2 cameras) or three times longer and audio is no more synchronized. A clip played at 100% seems to be played at 50 or 33%.

The **SuperMotion Backup Mode > All Frames with Desynchronized Audio** option enables the backup of all the frames of the SSLM clips with the audio. In this case, timecode reference is not consistent.

The **SuperMotion Backup Mode > Ream Time (1/2 or 1/3 frames with audio)** option backs up 1 frame over 2 or 3 (depending on the Super Motion Rec mode) and keeps the audio. Audio and timecode are consistent.

The selected option will be reflected in the Media Info tab of the Maintenance Mode window. Nb Videos = 1 (Real Time) or 3 (All Frames). Refer to section 3.10.2 ‘Media Info Area’ on page 86.

Audio Mode



Selecting the **Stereo** option results in grouping EVS server mono channels in stereo channels.

24 bits samples can be down converted to 16 bits by selecting the **16 bits** option or kept as it is by selecting the **24 bits** option.

Second Output Parameters

This field group can only be used if at least 2 disks are available.

In Mirroring mode, fields are filled automatically with the same information as for the primary output.

In other modes, the selection can be saved in a second file format and to a second path.

Filename Format String

The default filename automatically given to the backup file is

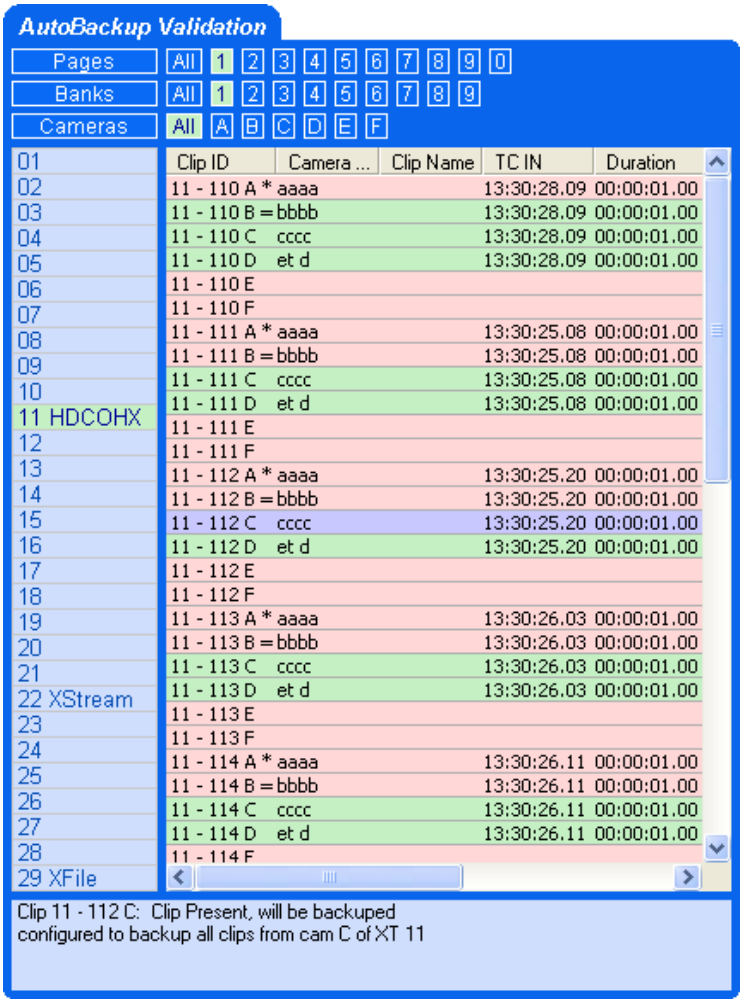
EVS XFILE <backup date>-<server user number>-<clip number><camera name>

The filename is user-defined and can be modified as described in section ‘How to Modify the Default Filename Format String’, on page 29.

The user can reset the default filename by clicking the **RESET** button.

Autobackup Validation Tab

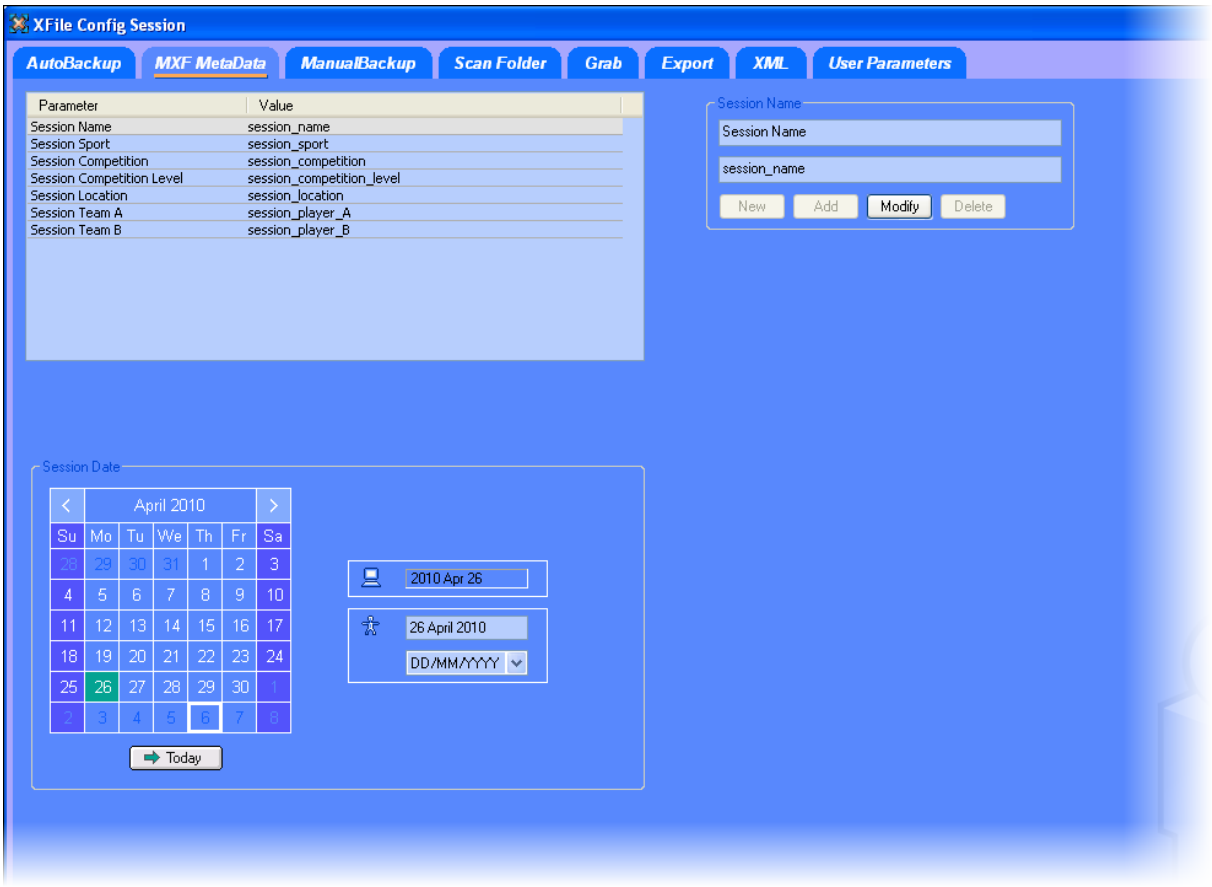
In the Autobackup Validation Tab, the Autobackup Validation list displays the current selection of Autobackup.



The clips displayed in a red line will not be taken into account by the Autobackup criteria and the clips displayed in a green line will be backed up when starting the Autobackup mode. The selected record will be displayed on a blue background.

The message box in the lower part of the screen displays the details of the clip selected.

3.3.2 Tab 2 – MXF Metadata



This area displays the current parameters and values saved to the descriptive metadata of the MXF file for the open session.

How to Modify the Values for MXF Metadata for the Session

To modify the values assigned to a given parameter for the open session, proceed as follows:

1. Click the value to modify in the left table.

   The value appears in the text field edition in the **Select a Parameter** group box.
2. Modify the value in the second field of the group box.
3. Click the **Modify** button to confirm the changes.

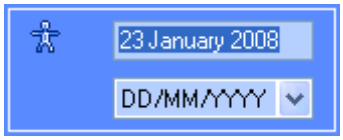
How to Define a User Session Date

Two session date fields are defined in the metadata of the backup file:

- The PC session date comes from the PC time. This field is not editable and it is defined in the PC settings.
- The user session date can be freely defined as explained in the following procedure.

To assign a user session date, proceed as follows:

1. Select the **User Session Date** field:

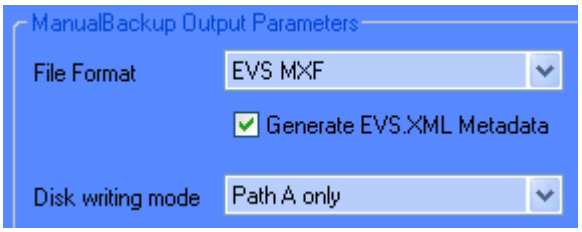


2. If you want to define a date as user session date, select the date in the calendar and select the date format in the drop-down list below the **User Session Date** field.
3. If you want to assign a name as user sessions date, type the requested name in the **User Session Date** field.

The user session date defined will be added as value for the second session date field in the metadata of the backup file.

3.3.3 Tab 3 – Manual Backup

Output File Format



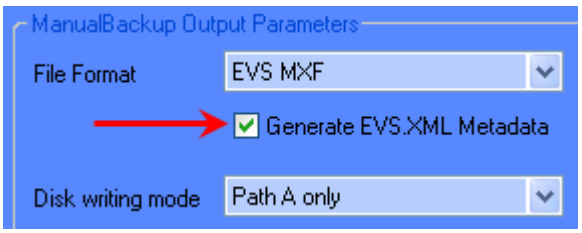
The following setting makes it possible, in a Single Disk configuration, to choose the format in which the backup file will be manually generated.

The **Manual Backup Output Parameters > File Format** drop-down list allows the user to select the default file format for the clips backed up with the manual backup process.

The following formats are available:

- EVS MXF 2 MB
- MXF OP1a (SD IMX only)
- Quick Time Movie
- Quick Time Reference
- Avid Ingest Device
- CleanEdit Reference
- Avid MXF OPAtom
- MXF OP1a (Std SMPTE)

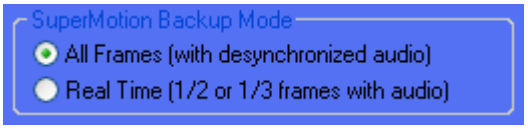
Generating an XML Metadata File



When the **Manual Backup Output Parameters > Generate EVS XML Metadata** check-box is selected, an XML file with the metadata of the clips backed up with the manual backup process is generated. This file is created at the same time as the backup file for all media file formats.

Refer to section ‘Generating an XML Metadata File’ on page 22 for more details.

Super Motion Backup Mode

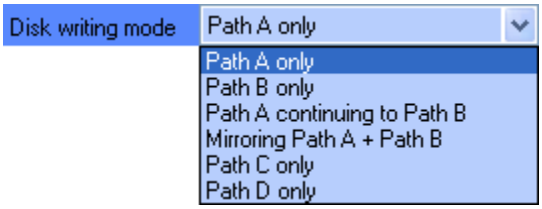


Refer to section ‘Super Motion Backup Mode’ on page 24 for more details.

Audio Mode

Refer to section ‘Audio Mode’ on page 24 for more details and for a summary of the summary of the availability of the SuperMotion Mode and Audio Mode according to the selected file format.

Disk Writing Mode

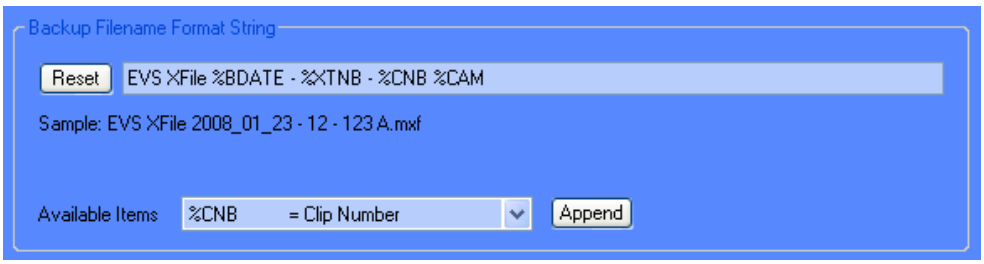


Refer to section ‘Disk Writing Mode’ on page 23 for more details

Backup Folder

Refer to section ‘Backup Folder’ on page 23 for more details

Backup Filename Format String



The default filename automatically given to the backup file is

EVS XFILE <backup date>-<server user number>-<clip number> <camera name>

The filename is user-defined and can be modified as described in section ‘How to Modify the Default Filename Format String’, on page 29.

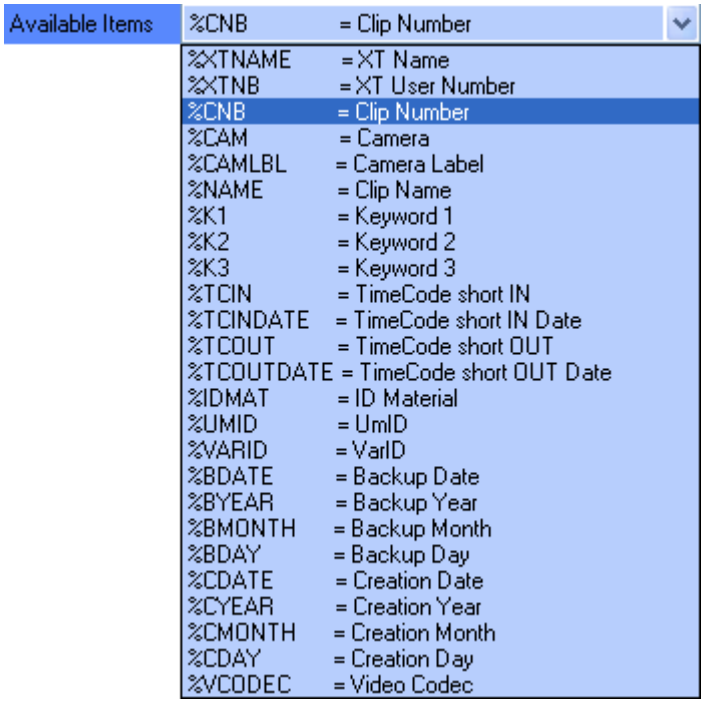
The user can reset the default filename by clicking the **RESET** button.

How to Modify the Default Filename Format String

To modify this default format string, proceed as follows:

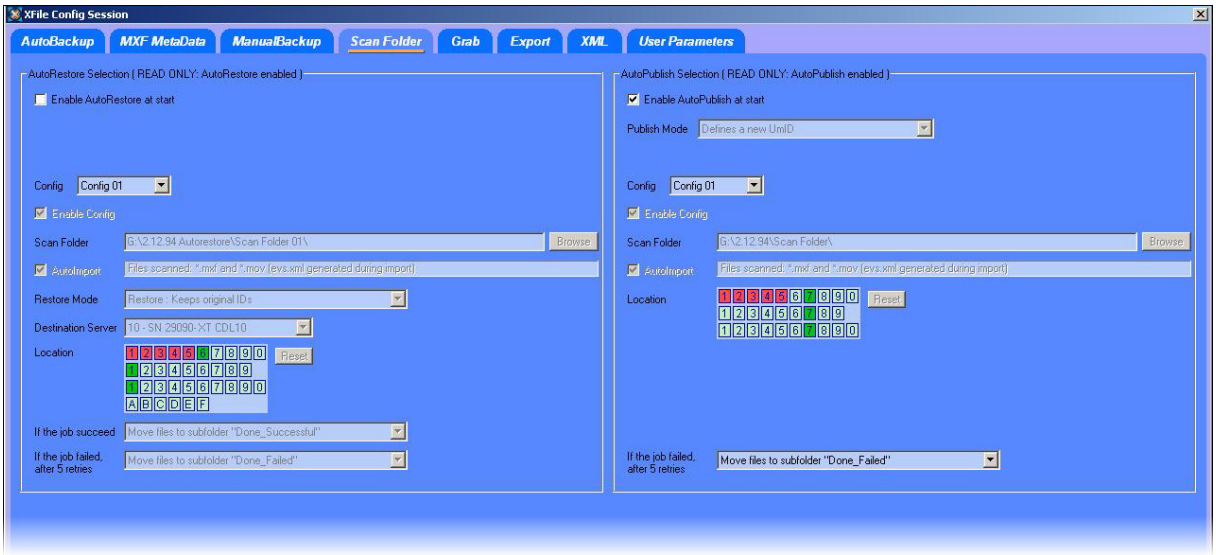
1. Select the format for which the filename string should be modified in the **File Format** field.
2. In the **Filename** field, delete the part of the string you do not want to keep in the filename, if any.
3. To add a generic text (i.e.: WC2006_Match03…) in the **Filename** string, simply type the text in the field.

4. To add an information type specified in the **Available Items** drop-down list, select the item in the drop-down list:



5. Click the **APPEND** button to add the selected item at the end of the Filename string.
6. Reposition the available item as desired with the cut (**CTRL-C**) and paste (**CTRL-V**) commands.
7. Repeat step 4 to 6 for any new information type you want to add in the **Filename** string.

3.3.4 Tab 4 – Scan Folder



Auto Restore

The Auto Restore function enables the automatic restore or copy of files from a folder to a defined location on an EVS video server. This is done through the GBE or the SDTI network.

The AutoRestore Mode can be activated from the main XFile window by clicking the **AutoRestore** button.

Enable AutoRestore at Start

If the **Enable AutoRestore at Start** box is selected, the AutoRestore Mode will be active as soon as XFile is started.

Enabling Configuration

Up to 5 different configurations can be pre-defined. To do so, select a configuration number in the **Config** field, fill in all the other fields and click **OK**.

To enable one of these configurations, select it the **Config** field, select the **Enable Config** box and click **OK**. Some or all of the predefined configurations can be enabled.

Scan Folder

This field defines the folder to scan for backup files to be restored. It must differ from the XFile data path.

AutoImport

MXF and MOV Files

When working with .mxf or .mov files, not associated with a separate XML file, select the **AutoImport** box. This parameter allows the extraction of metadata information and the creation of XML files.

When the import of files into the scan folder is done manually, XML files which could have been created must not be imported.

Video Files with XML files

When working with file formats associated with a separate XML file, do not select the **AutoImport** box.

When the import of files into the scan folder is done manually, XML files must not be copied before the video files, otherwise the job will start before the video file is present and the job will be set as Failed in the Job Status pane. In this case, the folder will automatically be rescanned and a second job line will appear in the Job Status pane with the Successful status.

Parameters for Restore

Restore Mode

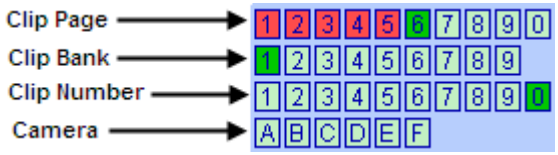
Two Restore Modes are available:

- Restore: keeps original IDs. In case the ID already exists, the job will fail.
- Copy: generates new UmID

Destination Server

Select the server name where you want to restore the files.

Location

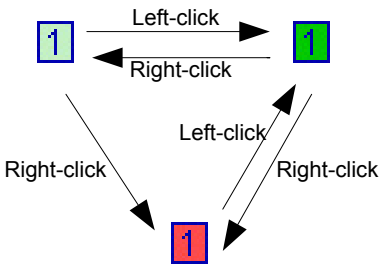


The Location area indicates in which locations the files will be restored.

The following color code is used:

Background color	Meaning
Bright red	Unauthorized location
Bright green	First location which will be used when publishing
Pale green	Authorized location

To switch one color for another, proceed as follows:



Files Move

If the job succeeds, the files will be moved to the 'Done_Successful' subfolder.

If the job failed after 5 tries, the files will be moved to the 'Done_Failed' subfolder.

NEW!

AutoPublish

Note

The AutoPublish Mode is not available in LinX mode.

The AutoPublish function enables the automatic publication of files from a folder to a defined location on the XNet. This is done through the SDTI network.

The AutoPublish Mode can be activated from the main XFile window by clicking the **AutoPublish** button.

Enable AutoPublish at Start

If the **Enable AutoPublish at Start** box is selected, the AutoPublish Mode will be active as soon as XFile is started.

Enabling Configuration

Up to 2 different configurations can be pre-defined. To do so, select a configuration number in the **Config** field, fill in all the other fields and click **OK**.

To enable one of these configurations, select it the **Config** field, select the **Enable Config** box and click **OK**. Some or all of the predefined configurations can be enabled.

Scan Folder

This field defines the folder to scan for backup files to be published.

AutoImport

This parameter allows the extraction of metadata information and the creation of XML files when working with files not associated to XML files, such as .mxf and .mov.

Refer to section ‘AutoImport’ on page 31 for a detailed description.

Parameters for Publish

NEW !

Publish Mode

Note

The Publish Mode is not available in LinX mode.

Three Publish Modes are available:

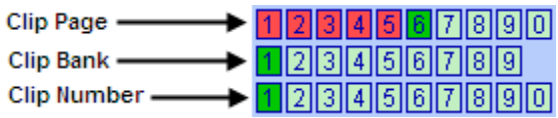
- Keeps original UmID
- Defines a new UmID
- Defines a new UmID and VarID

You can choose to keep the original file UmID or to generate a new one.

As this parameter must be the same for manual Publish Mode and AutoPublish Mode, the selection made in the Scan Folder tab will impact the one made in the User Parameters tab:

- The **Keeps original UmID** option automatically selects the **Publish Clips with Original UmID** box and the **Publish Clips with Original VarID** box, and vice versa.
- The **Defines a New UmID** option automatically deselects the **Publish Clips with Original UmID** box and selects the **Publish Clips with Original VarID** box, and vice versa.
- The **Defines a New UmID and VarID** option automatically deselects the **Publish Clips with Original UmID** box and the **Publish Clips with Original VarID** box, and vice versa.

Location



The Location area indicates in which locations the files will be published.

Refer to section ‘Location’ on page 32 for a description of the color code.

Note

In the Publish process, the XML metadata file must be published prior to the backup file.

Files Move

If the job failed after 5 tries, the files will be moved to ‘Done_Failed’.

3.3.5 Tab 5 – Grab

The Multicam operators, from their remote control panel, are able to select a video frame/field and to grab a picture. A Default XFile must be defined in the Setup menu of the Multicam - See Multicam documentation for more details. Those pictures are created by the XFile and stored on the disks of this XFile.

Grab Folder

Select the destination folder to save the JPG/BMP files.

Stretch Field to Frame Size

Enabling this option will automatically stretch the ‘field image’ to the original ‘frame size’.

Output Format

The automatic selection of the output format depends on the previous option. If the images are not modified by stretching, the JPG format is defined and if the images are modified by stretching, the BMP format is selected. The user can force the selection of one format.

Note

No compression artifact is added to this file creation process, so the original quality of the image is kept.

Grab XT/XFILE Filename Format String

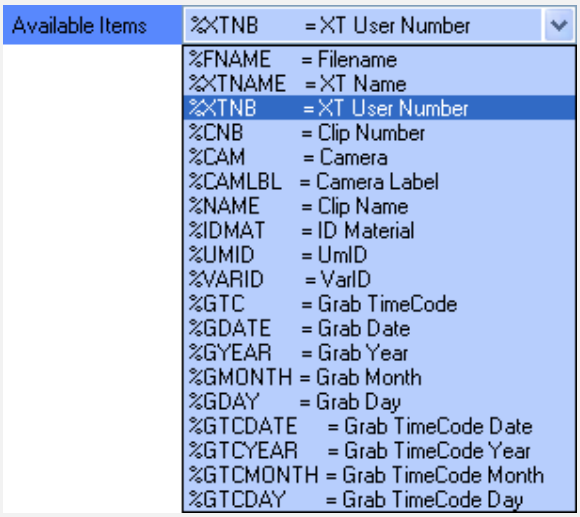
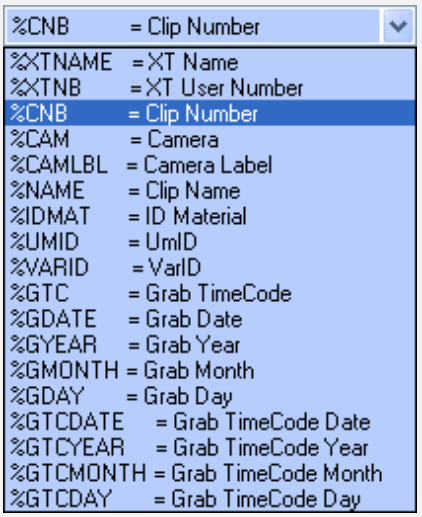
The default filename automatically given to the JPG/BMP file is

- EVSGRAB_<date> - <_server user number> - <_clip number> - <_camera name> - <_time code>. jpg/bmp, when grabbed on EVS video server
- <filename> - <time code>. jpg/bmp, when grabbed on XFile, from the Edit Clip module.

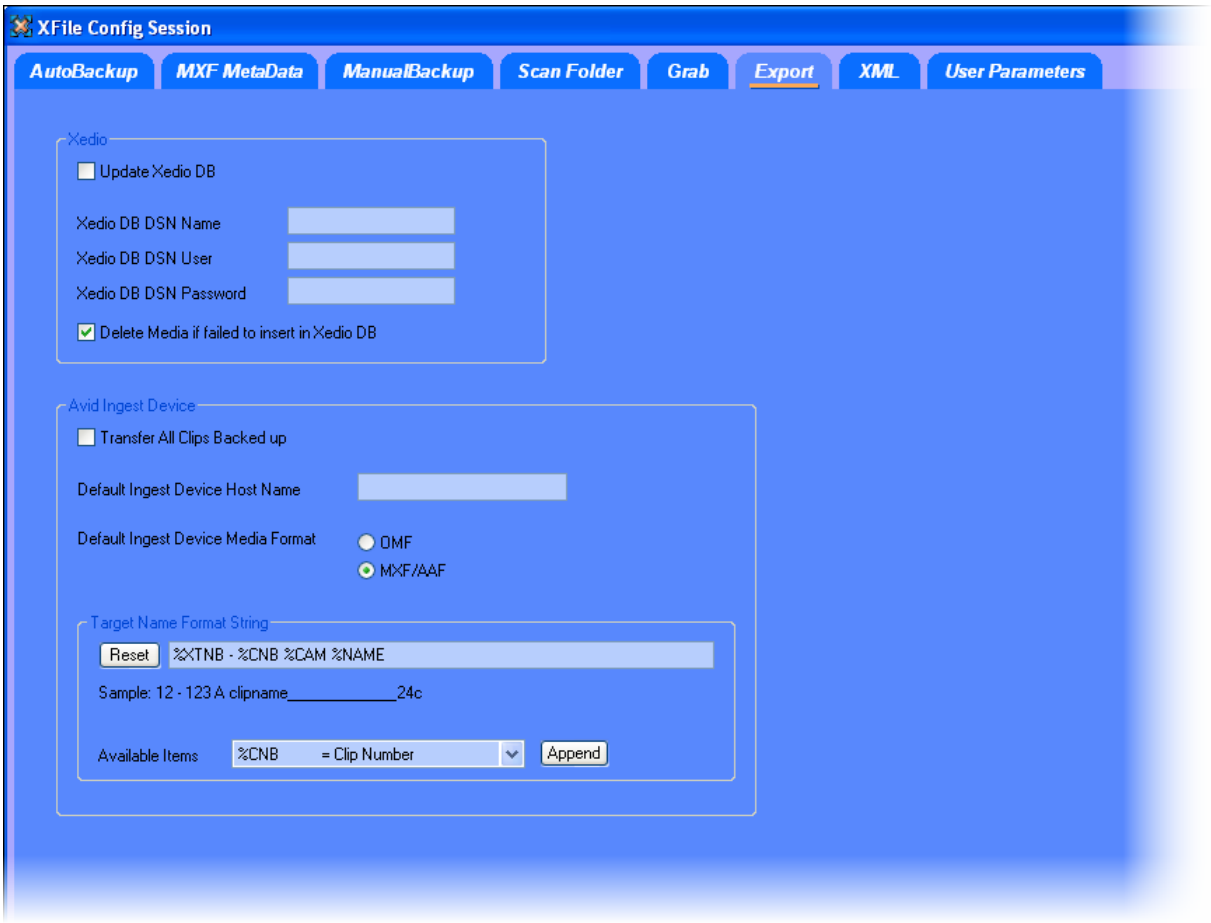
This filename is user-defined and can be modified by typing a generic term (i.e.: WC2006_Match03…) and/or by adding one or many available items (See screenshot below). See also section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **RESET** button.

Available Items

XFile	XT
	

3.3.6 Tab 6 – Export



All clips backed up by the XFile can be exported to other systems for different purposes:

Xedio (CleanEdit)

The clips backed up can be automatically inserted into the Xedio Database. Place a checkmark in the 'Update Xedio DB' box and enter the DSN name, user and password for the defined Xedio database.

Please refer to the Xedio documentation for more details.

Avid Ingest Device

The clips backed up can be automatically transferred to the AVID Ingest Device for conversion process to AVID file format.

Transfer All Clips Backed up

To transfer all clips that are backed up in XFile and XStream, select the **Transfer All Clips Backed up** check box.

Default Ingest Device Host Name

Enter the host name of the default Avid Ingest Device in this field.

Please contact EVS support for details regarding the configuration of AVID Ingest Device.

Default Ingest Device Media Format

The **Default Ingest Device Media Format** field makes it possible to specify the media format to which the Avid Ingest Device will convert the backup file received from the XFile application. This information is transferred as a setting to the Avid Ingest Device that will perform the conversion.

The following formats are available:

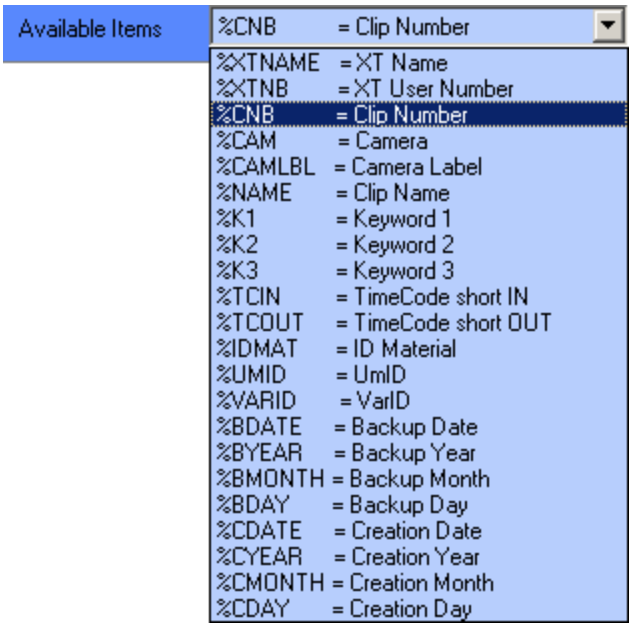
- OMF
- MXF/AAF

Target Name Format String

A default filename is automatically given to the target file.

This filename is user-defined and can be modified by typing a generic term (i.e.: WC2006_Match03…) and/or by adding one or many available items (See screenshot below). See also section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **RESET** button.



3.3.7 Tab 7 – XML

A few operations made by XFile as backup, restore, delete, copy,… are remotely controlled via XML file by a source application (IPDirector, Automation system, …).

Two modes are available:

- XML files are put in a folder located on the same hardware than XFile and XFile scans this folder
- XML files are put in a folder on the network. Several XFile scan this folder and the jobs are distributed among them.

XML Jobs Root Folder

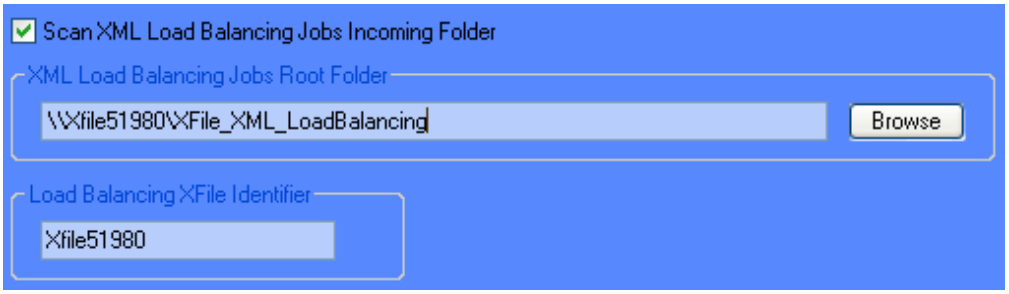
When using the **XML Jobs Root Folder** option, the XFile only scans its local folder.

To use this option, proceed as follows:

1. Select the **Scan XML Jobs Incoming Folder** option above the XML Jobs Root Folder field.
2. Specify the local folder that will receive XML files. The default local folder is `C:\XFile_XML`.

XFile will handle all XML files stored in this folder.

XML Load Balancing Jobs Root Folder



The load balancing process allows spreading the XML jobs over several XFile applications. In this case, all XML files are stored in a single folder on the network. All XFile applications scan this folder and the jobs are distributed among the various XFile applications, depending on their availability.

When using the **XML Load Balancing Jobs Root Folder** option, all XFile applications will scan the same folder on the network.

To use the load balancing option, proceed as follows:

1. Select the Scan XML Load Balancing Jobs Incoming Folder check box.
2. In the **XML Load Balancing Jobs Root Folder** field, specify the folder on the network that will receive all XML job files.
3. In the **Load Balancing XFile Identifier** field, type an identifier for the XFile. This will be used in the XML files to specify which XFile has handled the job.

When it is available, XFile will handle the XML files in this folder.

Note

The load balancing function filters the jobs based on the prefix of the XML file. It will only process the XML files with the same prefix as the one defined in a dedicated registry setting. Contact your administrator to set up this function.

Subfolders Created

Four subfolders are automatically created at start up when one of the XML modes is selected:

Subfolder Name	Content
Jobs_Incoming	The source application posts XML files to request jobs.
Jobs_Scheduled	The XFile stores the XML jobs scheduled.
Jobs_In_Progress	The XFile stores the XML jobs in progress.
Jobs_Done	The XFile posts the XML files containing the final result of the jobs.

Example of XML File for Backup Command

Backup Clip 112 A from EVS server n°11 to the “F:\ext_folder\clip_11_112A.mxf”

```
<?xml version = "1.0" ?>
<EVS_XFile_Job_List>
   <EVS_XFile_Job>
      <Job_Id>4942648367704751</Job_Id>
      <Job_Creation_Time>1132235747</Job_Creation_Time>
      <Job_Type>0</Job_Type>
      <Job_Src_Clip_Nb>112</Job_Src_Clip_Nb>
      <Job_Src_Cam>A</Job_Src_Cam>
      <Job_Dest_File>F:\ext_folder\clip_11_112A.mxf</Job_Dest_File>
   </EVS_XFile_Job>
</EVS_XFile_Job_List>
```

Example of XML File for Restore Command

Restore Clip I:\HD\backup133A.mxf to EVS server n°11 at 111A

```
<?xml version = "1.0" ?>
<EVS_XFile_Job_List>
   <EVS_XFile_Job>
      <Job_Id>1238431548774395</Job_Id>
      <Job_Creation_Time>1129799945</Job_Creation_Time>
      <Job_Type>1</Job_Type>
      <Job_Src_File>I:\HD \backup133A.mxf</Job_Src_File>
      <Job_Src_Id>9YYabjA0</Job_Src_Id>
      <Job_Src_Id_Material>9YYabjA0</Job_Src_Id_Material>
      <Job_Dest_User_Nb>11</Job_Dest_User_Nb>
      <Job_Dest_Clip_Nb>112</Job_Dest_Clip_Nb>
      <Job_Dest_Cam>A</Job_Dest_Cam>
      <Job_Src_App_Data>Job generated by XGateway</Job_Src_App_Data>
   </EVS_XFile_Job>
</EVS_XFile_Job_List>
```

See XFile XML jobs documentation for complete description of XML files.

XML Default Parameters

It can occur that some XML parameters are not defined by the source application. In this case, XML Default Parameters mentioned in the XML Tab are taken into account for the missing XML parameters.

XML Backup Output Parameters

The **File Format** drop-down list allows the user to select the default file format.

The following formats are available:

- EVS MXF
- MXF OP1a (SD IMX only)
- Quick Time Movie
- Quick Time Reference
- Avid Ingest Device
- CleanEdit Reference
- Avid MXF OPAtom
- MXF OP1a (Std SMPTE)

When the **Generate EVS XML Metadata** check-box is selected, an XML file with the metadata is generated. This file is created at the same time as the backup file for all media file formats.

The **SuperMotion Backup Mode** allows the user to select the backup mode for SSLM clips. Refer to section 'Super Motion Backup Mode' on page 28 for more information.

The **Audio Mode** allows the user to group EVS server mono channels in stereo channels and to down convert samples from 24 bits to 16 bits.

XML Backup Filename Format String

The default filename automatically given to the backup file is:

```
EVS XFILE <backup date>-<server user number>-<clip number><camera name>
```

It can be modified by typing a generic term and/or by adding one or many available items. See also section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **RESET** button.

XML Grab Filename Format String

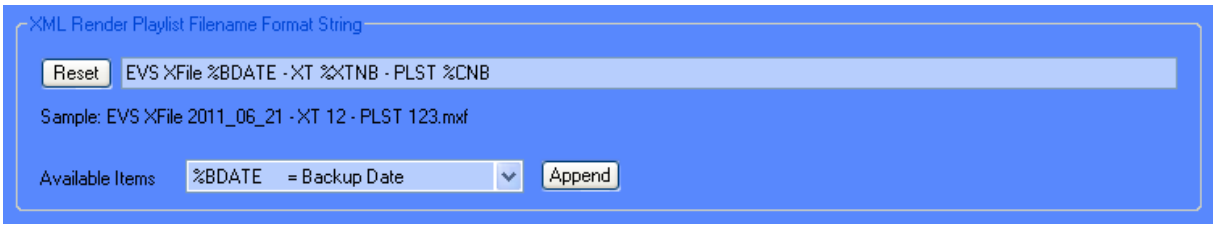
The default filename automatically given to the JPG/BMP file is:

```
EVSGRAB_<date> - <_server user number> - <_clip number> - <_camera name> - <_time code>. jpg/bmp
```

It can be modified by typing a generic term and/or by adding one or many available items (See screenshot in section 'Grab XT/XFILE Filename Format String' on page 36). See also section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **RESET** button.

XML Render Playlist Filename Format String



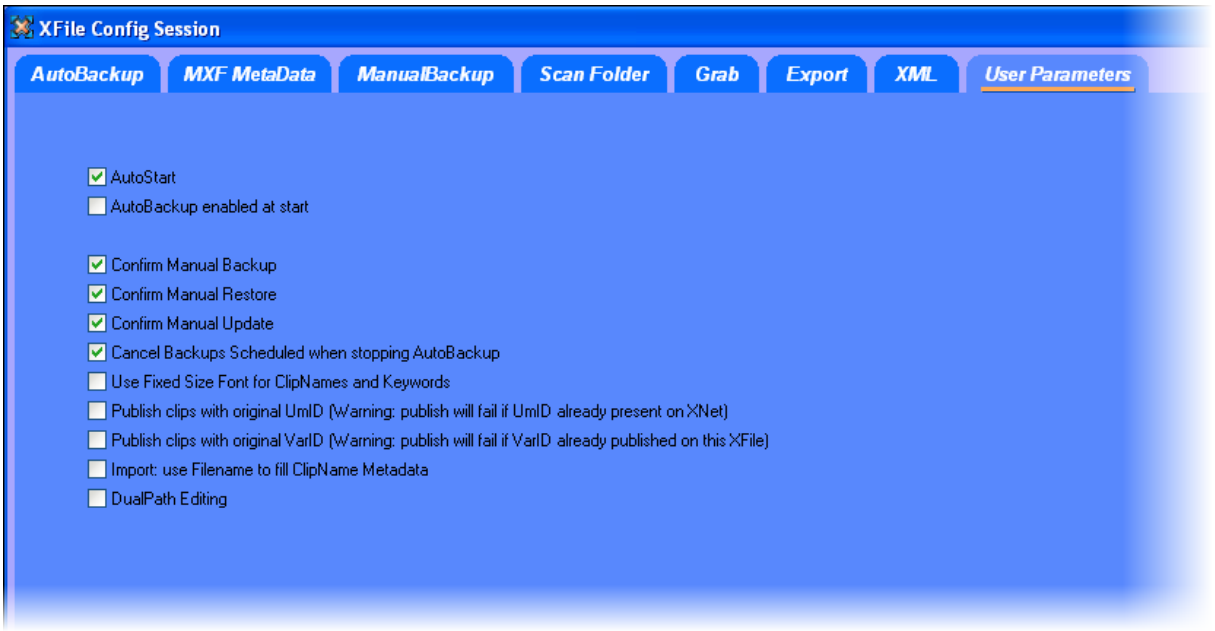
The default filename automatically given to the rendered playlist is:

EVS XFILE <backup date>-<server user number>-PLST-<clip number>

It can be modified by typing a generic term and/or by adding one or many available items. See also section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **RESET** button.

3.3.8 Tab 8 – User Parameters



Autostart

This option automatically starts the XFILE software.

Autobackup at Startup

This option automatically starts the autobackup mode at startup.

Confirm Manual Backup

Enables or disables the confirmation message while initiating a Backup command.

Confirm Manual Restore

Enables or disables the confirmation message while initiating a Restore command.

Confirm Manual Update

Enables or disables the confirmation message while updating a clip previously backed up. This command is only available in Manual backup mode.

Cancel Backups Scheduled when Stopping Autobackup

If this option is selected, all the scheduled backup jobs will be cancelled when the autobackup mode is stopped.

Use Fixed Size Font for Clipnames and Keywords

Enabling this option will display the content of clipnames and keywords columns with fixed size font in all modes.

Publish Clips with Original UmID (Warning publish will failed if UmID already present on XNet)

Selecting this option will preserve the clips UmID in Publish mode.

Publish Clips with Original VarID (Warning publish will failed if VarID already published on XFile)

Selecting this option will preserve the clips VarID in Publish mode.

Import: Use Filename to fill Clipname Metadata

When this option is selected, the filename is assigned as clipname to imported files that do not have a clipname. So, if a file has a clipname, it is not replaced by the filename. This rule applies to all file formats.

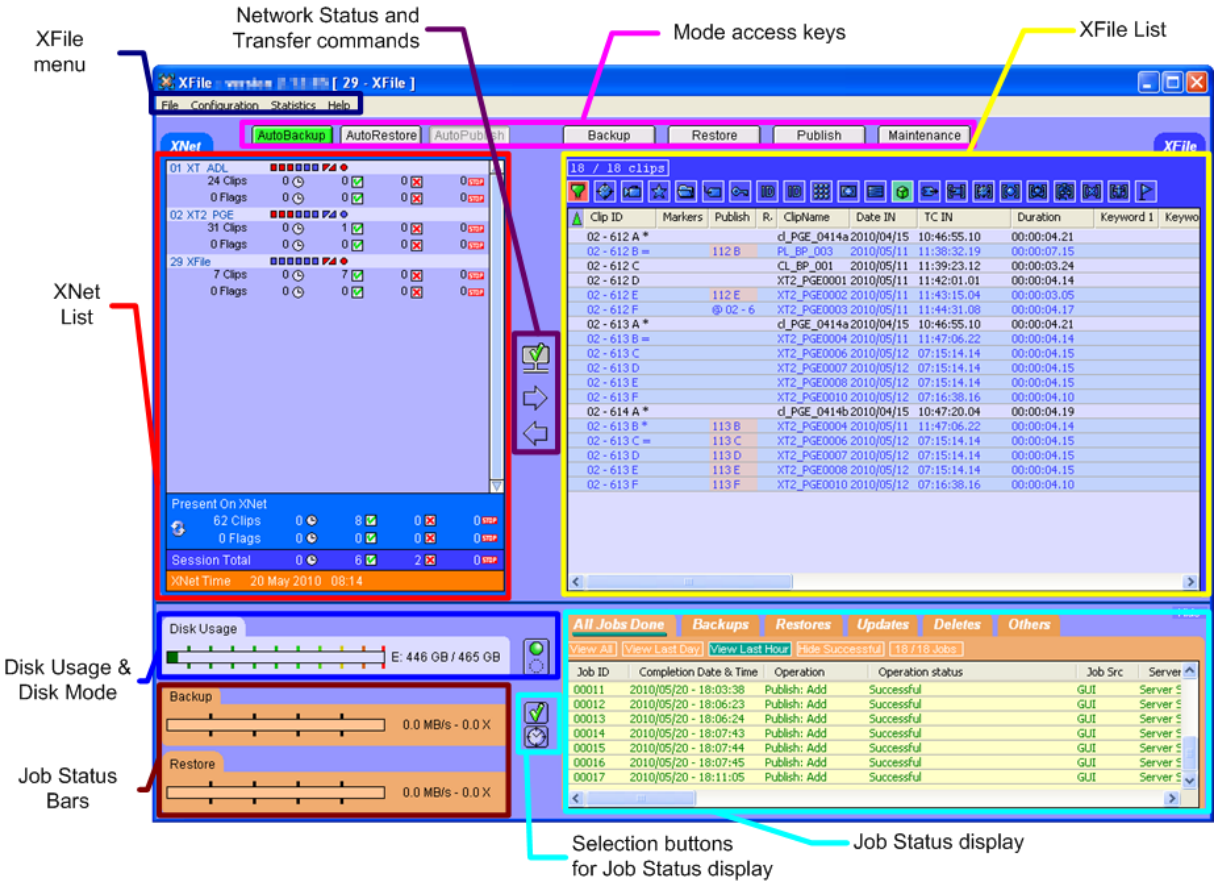
Dual Path Editing

When this option is selected, any keyword of one file edited through the Edit Clip module is automatically edited for the other files with the same IDmaterial and file format, e.g. files backed up in mirroring mode (paths A + B). Changes are made in the EVS.XML metadata file, as well as in the header of the EVS MXF file, if any.

3.4 User Interface

3.4.1 Overview of the Main Window

The screenshot below shows the various areas of the XFile main window.



Note

The AutoRestore and the AutoPublish modes can be activated from this main window.

Most of the user interface elements are common to the different modes of XFile use: Network Status, XFile List, Disk Usage, Disk Mode, Job Status Bars, Job Status Display and Selection Buttons. They are described in the current section.

User interface elements specific to each mode are described in the corresponding sections: Transfer commands, XNet List.

3.4.2 XFile List

The XFile List area includes the following elements:

- At the top left of the area, the number of clips retrieved on the XFile is specified.
- At the top right of the area, one or more buttons give access to commands or options specific to the XFile List.
- In the upper part of the area, the filter buttons make it possible to filter the list of clips displayed in the XFile List.
- Below the filter buttons, the list of clips backed up provides information on each clip.

XFile List Information

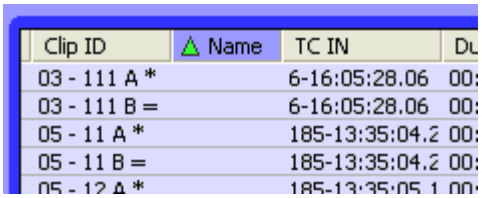
Each record of a clip displayed in the XFile List includes clip information. The main fields displayed in the XFile List are explained in the table below:

Clip Information	Description
UmID	Displays the 8-bytes ID with fixed length assigned to the clip and used for the unique clip identification on the SDTI network.
VarID	Displays the 32-bytes ID with variable length assigned to the clip.
Clip ID	Displays ID assigned to the clip using its page, bank, clip and camera number.
Markers	Displays the markers defined for the clip.
Publish	Displays the EVS video server location where the given clip is published for the XFile session opened.
Rating	Displays the interest level assigned to the clip.
ClipName	Displays the name assigned to the clip
Date IN	Displays the date of the clip IN point. This information is provided with clips created from Multicam v. 9.00, whatever the time code used.
TC IN	Displays the TC IN of the clip for the time code defined as primary time code in Multicam. The other time code data are specified in the clip Media Info available in the Maintenance tab.
Duration	Displays the duration of the clip without guardbands.

Clip Information	Description
File Format	Displays the format of the backup file that includes the clip, i.e. EVS MXF 2 MB, MXF OP1a, QuickTime Movie, QuickTime Reference, and AVID MXF OPAtom *With EVS MXF 8MB, this field will be displayed on an orange background. This draws the attention to the fact that the Restore is not possible on these files without a manual file conversion.*
Keyword 1	Displays the first keyword assigned to the clip.
Keyword 2	Displays the second keyword assigned to the clip.
Keyword 3	Displays the third keyword assigned to the clip.
Creation Date and Time	Displays the creation date and time of the EVS video server where the clip has been created
Backup Date and Time	Displays the date and time of the XFile when the clip backup file has been created.
Filename	Displays the name of the backup file that includes the clip.
Media Full Path	Displays the full path where the backup file is located on the XFile disks.
Metadata Full Path	Displays the full path where the metadata XML file of the backup file is located on the XFile disks.

Sorting Clips in the XFile List

To sort a column in alphabetical or numerical order, click on the column label to display the arrow button ▲ ▼ and click again to invert the sorting.



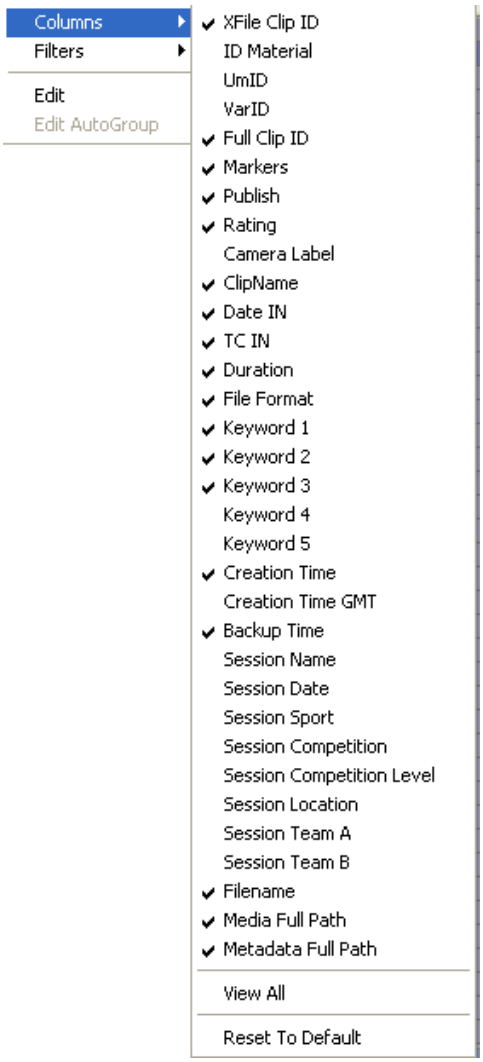
Selecting Columns in the XFile List

Use the right-click button of the mouse (into the list) to access this selection menu.

All columns available are listed here.

Select or unselect the item to be displayed or to be hidden.

The Reset to Default option allows you to restore the standard display.



Filters

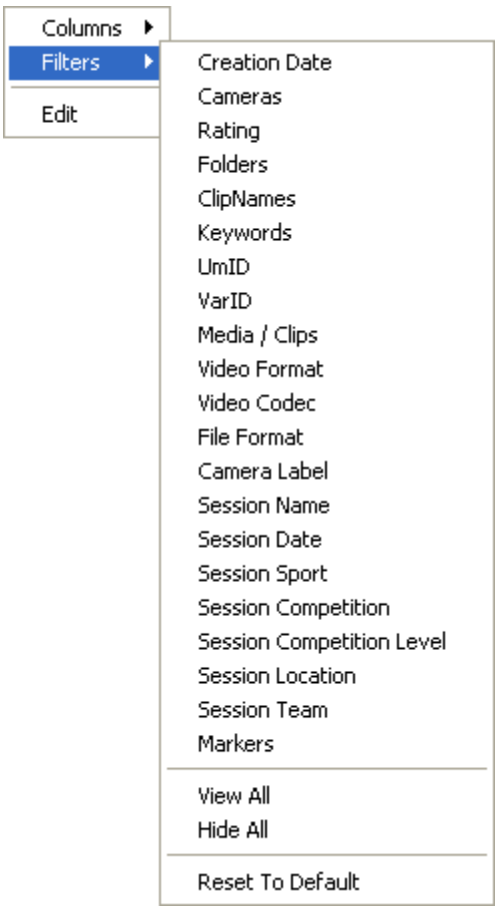
The upper part of the XFile list displays a list of buttons. These buttons give access to the different filters to be applied to the XFile list.

The filters are available in the five modes: Autobackup, Manual Backup, Restore, Publish and Maintenance modes.

	Filter inactive and hidden
	Filter is visible but inactive
	Filter is active

 : the **RESET** button is present in all modes and resets all filters to default values (= ALL for most filters)

Click on the button to display/hide the filter or use the right-click button of the mouse to access this selection menu.



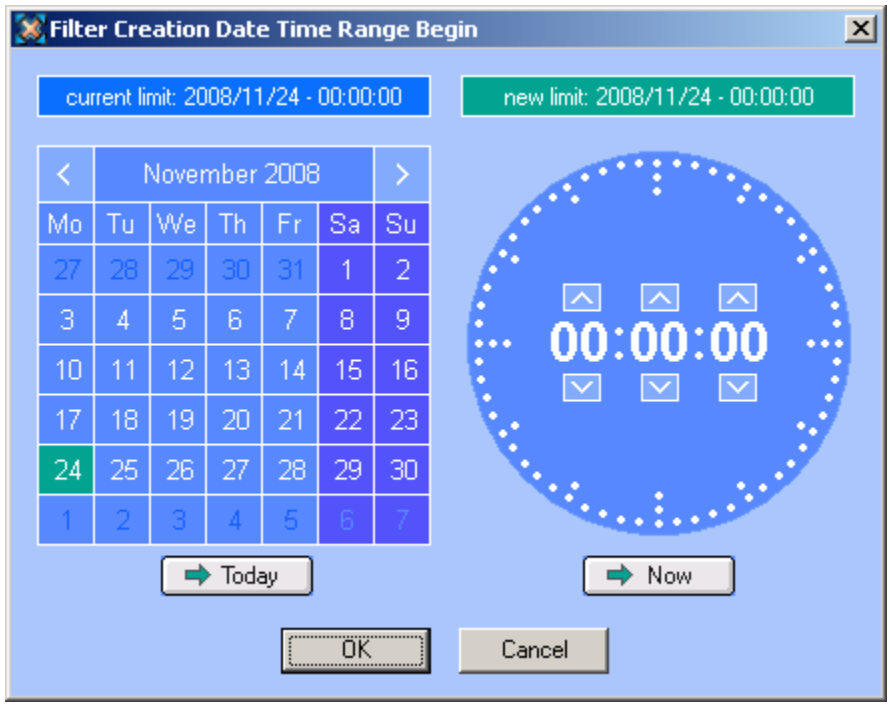
Creation Date

Note

The Creation date and the backup time are different values. The creation date depends on the date and time defined on your EVS video server. Please check the date-time of your system before operating.

'Last Hour' and 'Last 24h' are both quick shortcuts to display the clips created during the last hour or during the last 24 hours.

A range of date & time can be defined to sort the clips created during that period. Click on the 'Range' button to open the following dialog box:



The 'Creation date' filter requires a start date and time, as well as an end date and time to be valid.

1. For date selection, do one of the following:
   - In the calendar, select the month with the left and right arrows, then the day of the month.

   OR

   - Click the **Today** button.

2. For time selection, do one of the following:
   - In the **Time** field, select the hour using the up and down arrows to change the value displayed or directly type the value when the field lights green.

   OR

   - Click the **Now** button.
3. Press **ENTER** to confirm your selection.
4. Enter the second selection window to enter the values for the end limit.

The filter is now active and the clips created in between the time range defined are displayed in the XFile list.

Camera selection

Select the boxes representing the cameras and/or the PREF cameras of the clips to be displayed in the XFile list. Selected cameras appear in a green box.

Rating

Select the boxes representing the four levels of Rating. Selected items appear in a green box and the XFile list is refreshed to display the new selection of clips.

Folders

Autobackup Mode

In Autobackup mode, the Folders filter displays this selection:

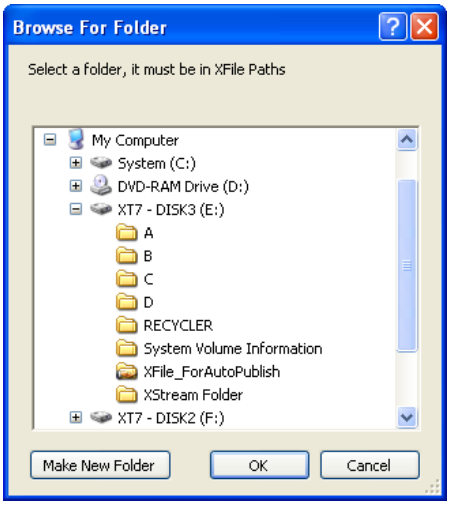
Option	Description
All	Displays all the clips included in the current(s) PATH(s) defined in the system configuration at startup.
PATH A/B/C/D	Displays the content of the selected path only.

Backup Mode

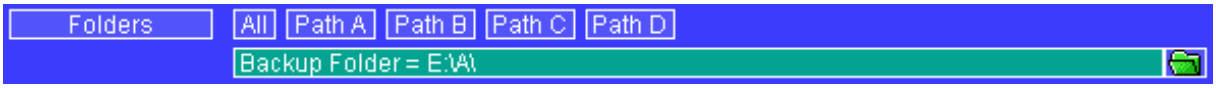
In Backup mode, the Folders filter displays this selection:

A backup folder can be defined for saving the clips manually backed up. In this case only one backup folder is selected and its current content is displayed in the XFile list.

Clicking on the **Folder** button on the right side opens the following dialog box:



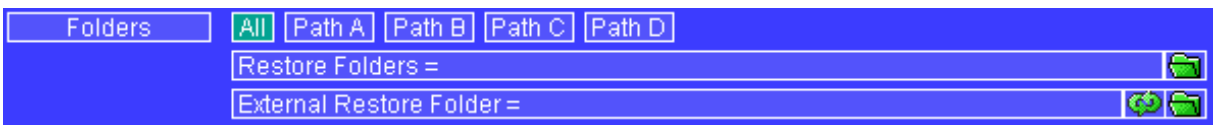
The user must select a folder for use in the filter. This folder will appear in the Name bar:



A Backup folder is assigned temporarily for a particular operation. As all operations are successive and therefore entered in a queue, the system will keep in memory the folder defined at the time of the backup's request.

Restore Mode

In Restore mode, the Folders filter displays this selection:



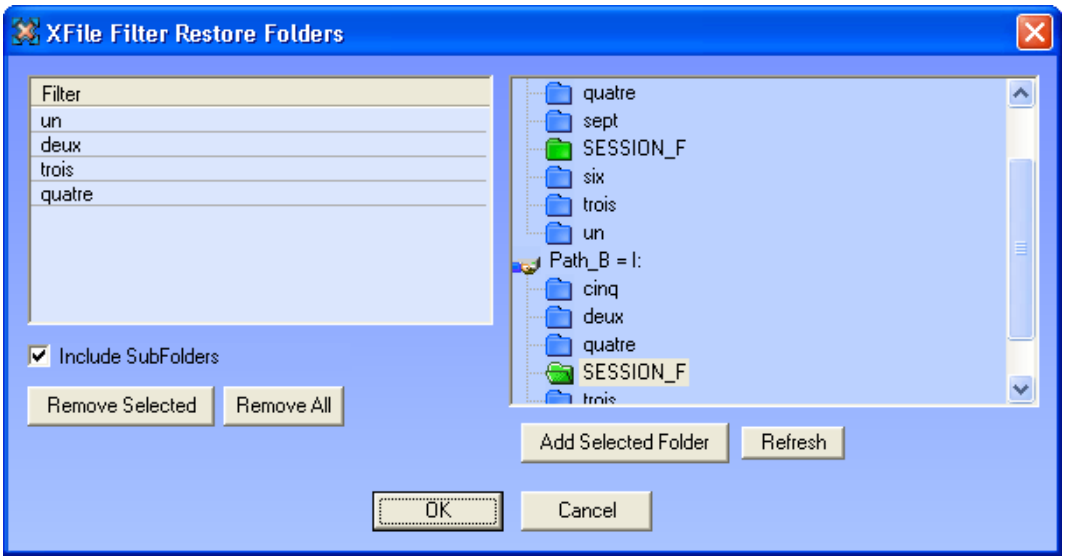
Restore folders can be defined for displaying the clips to be restored on the XNet.

The difference between 'Restore Folders and 'External Restore Folder' depends on the folders and sub-folders included in the PATH.

The selection of the ‘Restore folders’ does not require a scanning process because the clips have already been scanned at startup.

The 'External Restore Folder' must be a folder not included in the PATH, therefore the content of this external folder (or external disk) needs to be scanned for extracting the data and making them available from the XFile list.

In the **Restore Folders** field, clicking on the **Folder** button on the right opens the following dialog box:



The following principles are applicable in this dialog box:

- Several folders are selectable at a time.
- The sub-folders of the selected folder are selectable as well.
- The current Session Folder always lights green in the list.

You will find below explanations on how to perform the most important actions in this dialog box, i.e. including and/or removing one or more folders from the filter selection:

- To add a folder to the Filter list, select the folder from the list and click the **Add Selected Folder** button.
- To include subfolders of the selected folders displayed in the Filter list, select the **Include SubFolders** check-box.
- To remove a folder from the Filter list, click the **Remove Selected** button.
- To remove all folders from the Filter list, click the **Remove All** button.
- Click **OK** to confirm your selection and quit the dialog box. The folders appear in the **Filter** field, in the main XFile window.

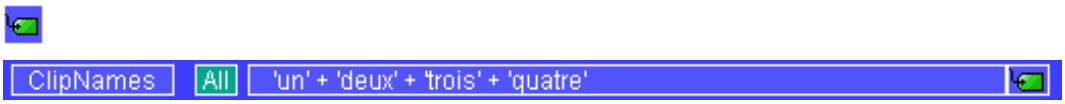
In the **External Restore Folder** field, clicking on the **Folder** button on the right side opens the following dialog box:

Only one folder is available for selection. This folder cannot be included into the XFile paths.

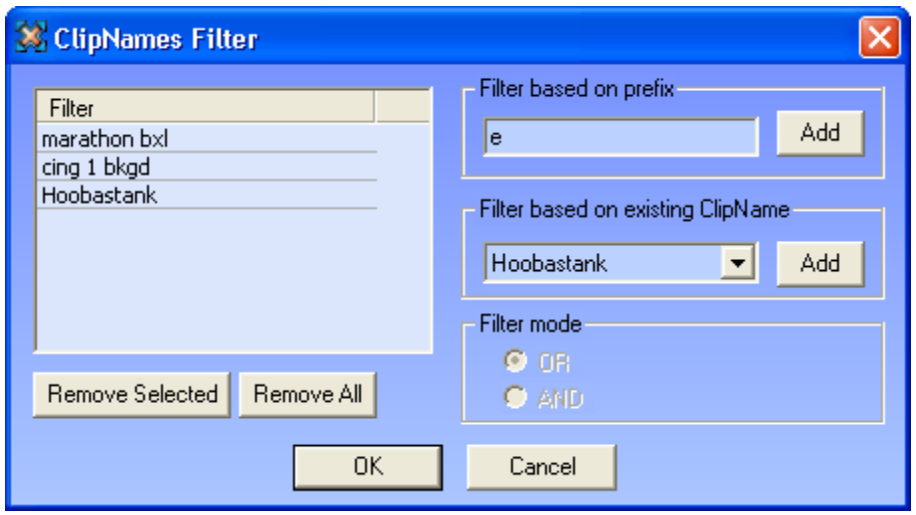
Click on one folder, click **OK** to confirm your selection and to quit the dialog box. The label of the selected folder appears in the **Filter** field.

The new folder is scanned and its content appears in the XFile list.

Clip Names



Clicking on the icon on the right side opens the following dialog box:



Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a clip name.

When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix. This helps the user distinct the prefixes and the full clip names in the Filter list.

Filter Based on Existing ClipName

At startup, all clip names assigned to the clips are extracted from the MXF files and are listed in the **Filter Based on Existing ClipName** field.

Select a clip name from the list and click **Add** to fill out the filter list.

Note

The number of clip names/prefix in the list is restricted to 5 items.

The filter mode is not selectable.

Remove Selected

In the Filter list, select an item and click **Remove Selected** to cancel the selection of this clip name.

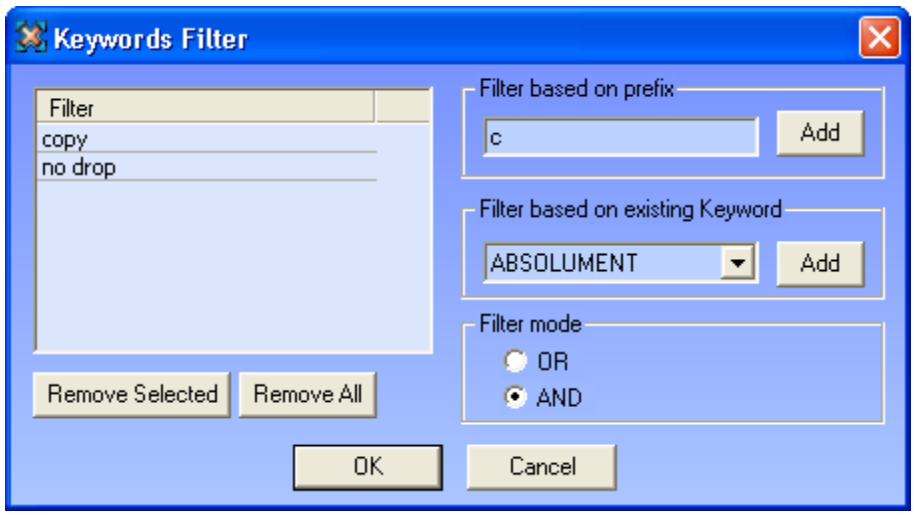
OK / Cancel

Click **OK** to confirm your selection and to quit the dialog box. The new clip names appear in the **Filter** field.

Click **Cancel** to come back to the main XFile window without applying any ClipName filter.

Keywords

Clicking on the icon on the right side opens the following dialog box:



Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a keyword.

When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix. This helps the user distinct the prefixes and the full keywords in the Filter list.

Filter Based on Existing Keyword

At startup all keywords assigned to the clips are extracted from the MXF files and are listed in the **Filter based on existing Keyword** field.

Select a keyword from the list and click **Add** to fill out the filter list.

Note

The number of keywords/prefix in the list is restricted to 5 items.

Filter Mode

In the **Filter Mode** field, select between the cross-selection mode (i.e. keyword 1 **AND** keyword 2) and the global selection mode (i.e. Keyword 1 **OR** keyword 2*).*

Remove Selected

In the Filter list, select a keyword and click **Remove Selected** to cancel the selection of this keyword.

OK / Cancel

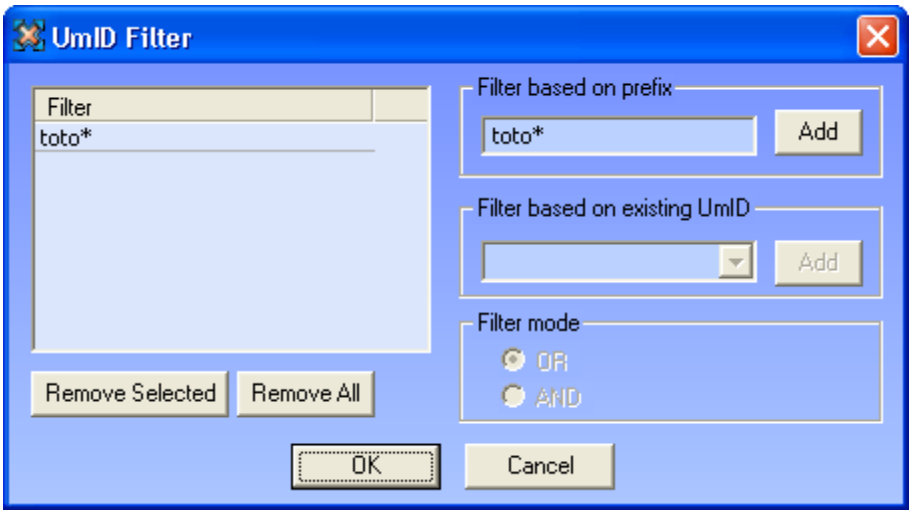
Click **OK** to confirm your selection and to quit the dialog box. The new keywords appear in the **Filter** field.

Click **Cancel** to come back to the main XFile window without applying any Keyword filter.

UmID

Clicking on the left  button will display the UmID filter.

Clicking on the icon on the right side opens the following dialog box:



Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a UmID.

When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix. This helps the user distinct the prefixes and the full UmIDs in the Filter list.

Remove Selected

In the Filter list, select a UmID and click **Remove Selected** to cancel the selection of this UmID.

OK / Cancel

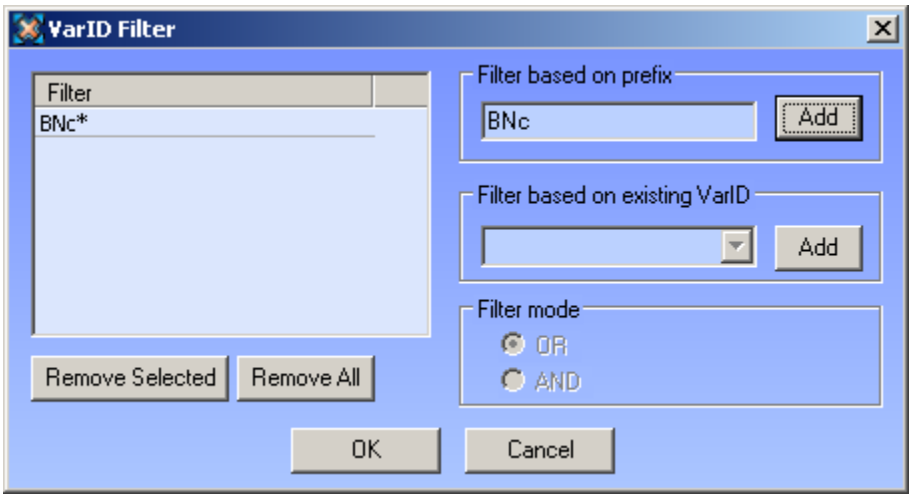
Click **OK** to confirm your selection and to quit the dialog box. The new UmID appears in the filter field.

Click **Cancel** to come back to the main XFile window without applying any UmID filter.

VarID

Clicking on the right  button will display the VarID filter.

Clicking on the icon on the right side opens the following dialog box:



Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a VarID.

When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix. This helps the user distinct the prefixes and the full VarIDs in the Filter list.

Remove Selected

In the Filter list, select a VarID and click **Remove Selected** to cancel the selection of this VarID.

OK / Cancel

Click **OK** to confirm your selection and to quit the dialog box. The new VarID appears in the filter field.

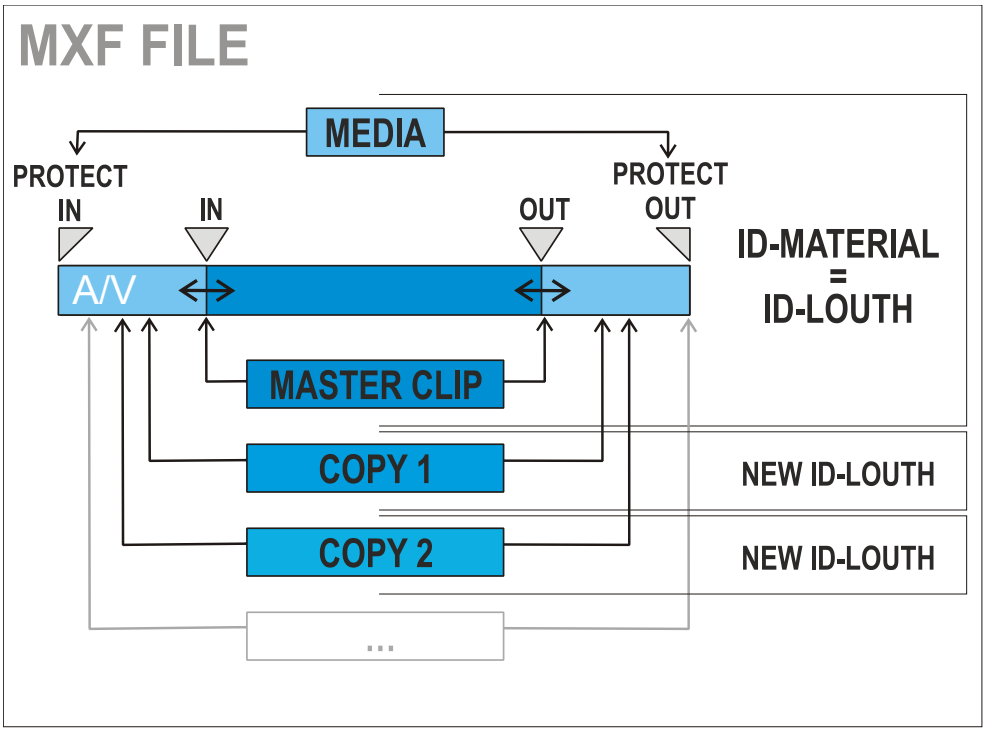
Click **Cancel** to come back to the main XFile window without applying any VarID filter.

Media / Clips

The MXF file is the file containing all data related to a common audio/video data.

The first clip created with this A/V data is called the Master Clip and has the particularity to get the same code for the ID-material and for the ID-louth.

All clips ensued from this masterclip, either by copy, or by update, or by modifying the IN (i.e. short IN) or OUT (i.e. short OUT) point are linked to the MXF file and a different ID-louth is defined for each of them.



The following options are available for selection:

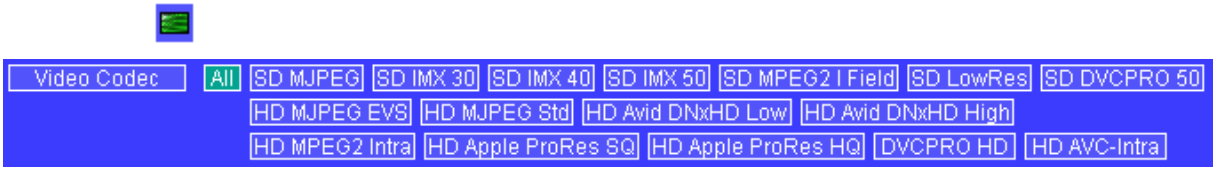
Option	Description
ALL	Displays all the clips
MasterClip	Displays only the Master Clips **Note** This filter is helpful when restoring clips, because it will only transfer the original clips, and skip the copies.

Option	Description
Group	Displays both master clips and clips linked by a “bracket” sign in the XFile list: 02 - 121 C * restore 14:00:07.22 02 - 122 C * rescpy 1 5h 1-05:00:00.00 02 - 123 C * rescpy 2 6h 1-06:00:00.00 02 - 124 C * rescpy 3 7h 1-07:00:00.00 02 - 125 C * rescpy 4 8h 1-08:00:00.00

Video Standards

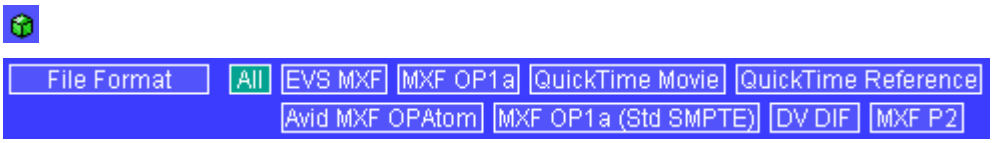
Select the squares representing the different video standards. Selected items appear in a green box and the XFile list is refreshed to display the new selection of clips.

Video Codecs



Select the boxes representing the different video codecs. Selected items appear in a green box and the XFile list is refreshed to display the new selection of clips.

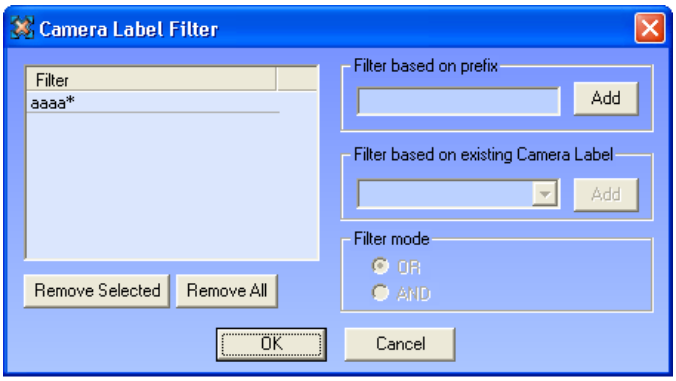
File Format



Select the boxes representing the different file formats. Selected items appear in a green box and the XFile list is refreshed to display the new selection of clips.

Camera Label

Clicking on the icon on the right side opens the following dialog box:



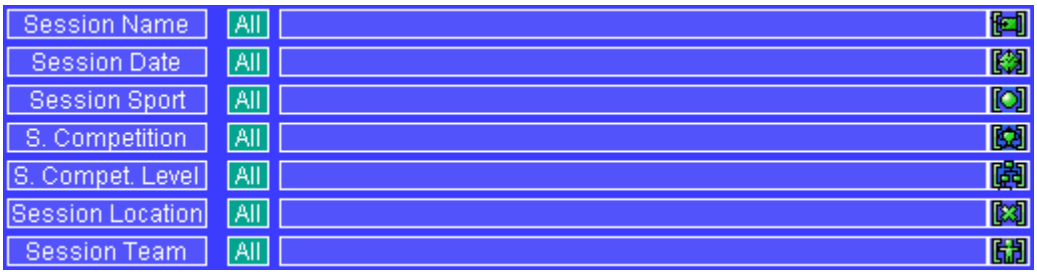
Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a camera label.

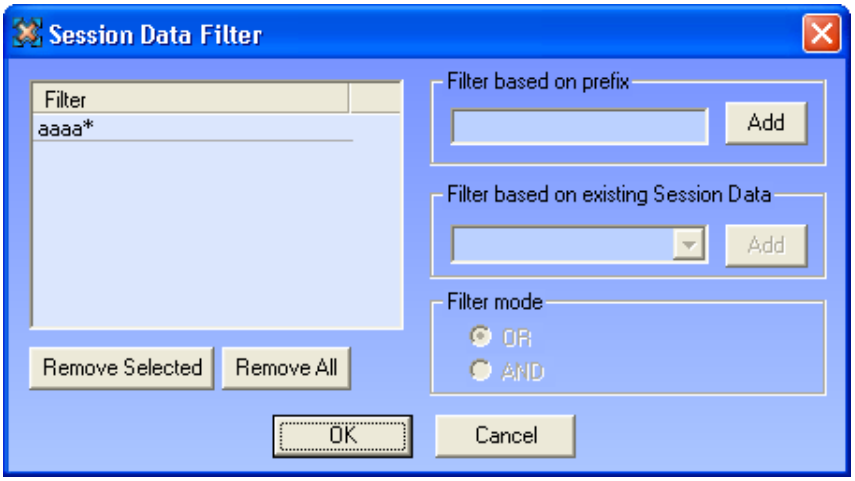
When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix.

Session Filters

The session information is entered via the Config session window – tab 2 'MXF Metadata' at startup. This information is saved to the descriptive metadata of all the clips backed up during the 'session'.



Clicking on the icon on the right side opens a dialog box like the following one:



Filter Based on Prefix

The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of the session data.

When you click the **Add** button to add the prefix defined to the Filter list, the system adds automatically a "*" sign after the prefix.

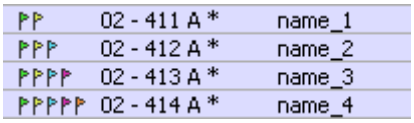
Clip Markers

The clip markers allow the users to tag clips into a global selection and to keep this selection from one mode to another.

5 different markers are available and can be combined if necessary.

Select a clip in the XFile list and click  to tag the clip or click  to clear the marker.

In the XFile list the clips marked are displayed as follows:



Note

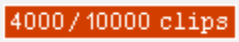
The clip markers are not saved to the header of the MXF file and therefore are temporary. When you quit the XFile software all markers are removed.

Counters

A counter of clips is available in all modes in the upper side of the list.

The first value is the number of clips displayed in the list, the second value is the total amount of clips in memory (contents of path(s) + external folder + clips scheduled).

The number of items in the different lists can affect the performance of the system. So it is advised to reduce the number of clips displayed in the lists.

	When the total amount of clips displayed in the list exceeds 2000 clips, the counter lights orange.
	When the total number of clips displayed in the list exceeds 4000 clips, the counter lights red.
+ 5000+	If the total number of clips exceeds 5000 clips, the list refreshing stops and the counter displays '+ 5000+'.

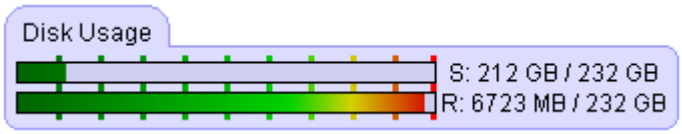
3.4.3 Network Status

The icon displayed in the center of the screen notices the current status of XNet:

	Connection to XNet is successfully done
	XFile is connecting
	Connection to XNet failed
	Local hardware failure has been detected
	Standalone mode

3.4.4 Disk Usage and Disk Mode

The remaining capacity and the capacity of disks are displayed in the lower part of the window for each path.

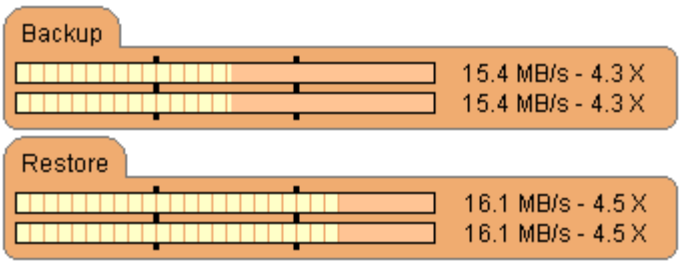


The icon displayed in the lower part of the screen notices the current disk mode in use:

	Single Disk
	Dual Disk
	Mirroring

3.4.5 Jobs Status Area

The transfer rate of the Backup and Restore processes is permanently evaluated and the progress bars show the activities in progress.

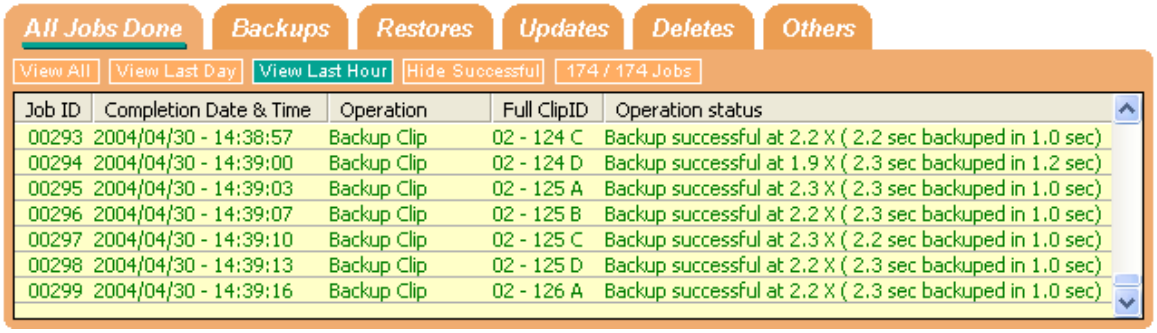


Depending on the operations in progress, the operator has the choice between two status displays:

	Toggle to ‘Jobs done’ display
	Toggle to ‘ Scheduled jobs’ display

Jobs Done Status Display

The different operations are divided into different tabs.



Filters

Use these filters to refine the selection:

Option	Description
View All	Displays all status since the startup of the system.
View Last Day	Displays the operation status related to the last 24 hours.
View Last Hour	Displays the operation status related to the last hour.
Hide Successful	Brings out clearly the various errors occurring during a complete session.

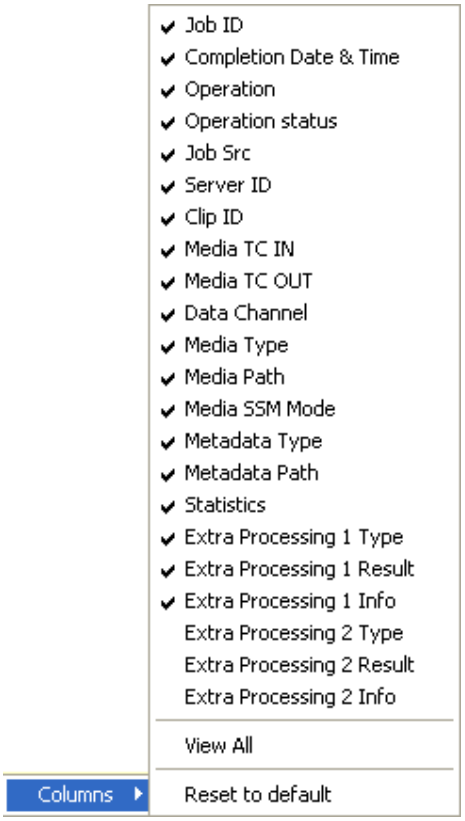
Select Columns

From the Jobs Done Status area, you can select the columns to see in one of the following ways:

- Use the right-click button of the mouse (into the list) to access this selection menu. All columns available are listed here.

  Select or unselect the item to be displayed or to be hidden.

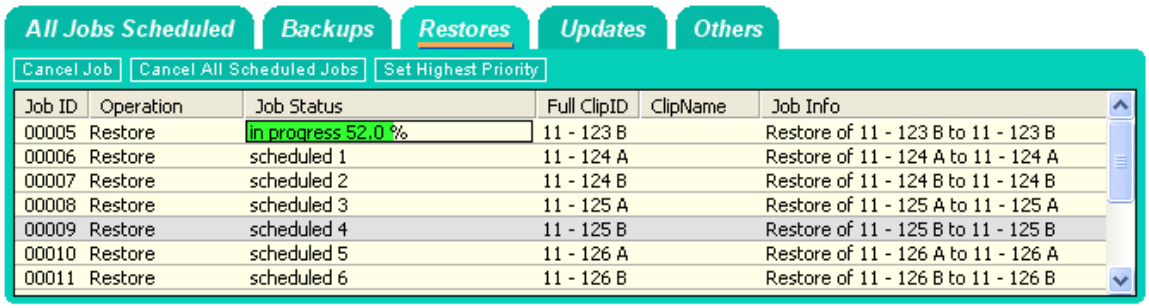
  The Reset to Default option allows you to restore the standard display



- Hide a column by dragging the border of a column header till its other border.

Scheduled Jobs Status Display

The Scheduled Jobs status display allows the operator to cancel one or all of the jobs in queue.



Cancelling Jobs

Select one/several items in the list and click **Cancel Job**, or click **Cancel All Scheduled Jobs** to delete all items in the list:

The selected items are deleted from the list and the related operations in progress are stopped or the scheduled operations are cancelled.

Modifying the Priority of Backup and Restore Jobs

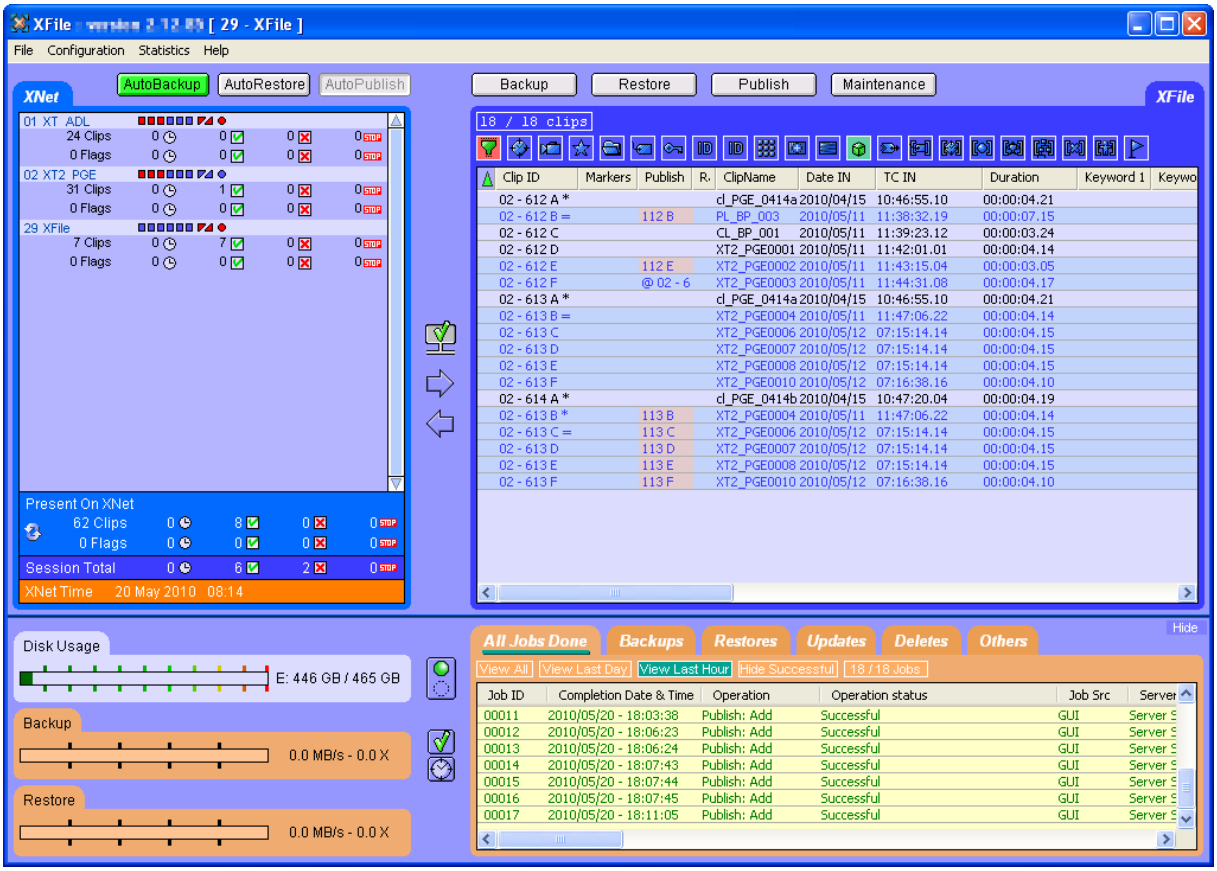
From the Backups and Restores tabs, the order of operations can be modified. Select one job in the list and:

The selected item is re-scheduled in the queue and its new status is “Scheduled 1”. The clip transfer will begin as soon as the current job in progress is completed.

3.5 Autobackup Mode

3.5.1 Purpose

Click AutoBackup to activate the Autobackup Mode. In this mode, the system acts automatically and backs up all clips according to the criteria defined in the Autobackup selection window. Besides, this mode is important to take account of the different updates made during operations.



When the users select the Autobackup mode, the application performs the Scanning Network process again to retrieve all clips to be backed up on the XNet network.

Note

This mode MUST be enabled for the user's > ARCHIVE commands from the Multicam systems to be taken into account.

Thanks to the selection list, the autobackup process is an automatic and self-operating system. When a clip is created on one of the selected servers, a copy is automatically transferred to XFile. The XFile operates with the lower priority on the network, this means that the normal operations of other servers are not affected by the XFile activity.

If the cameras/systems selection needs to be modified, the autobackup mode must be disabled before entering the Session Configuration window.

Note

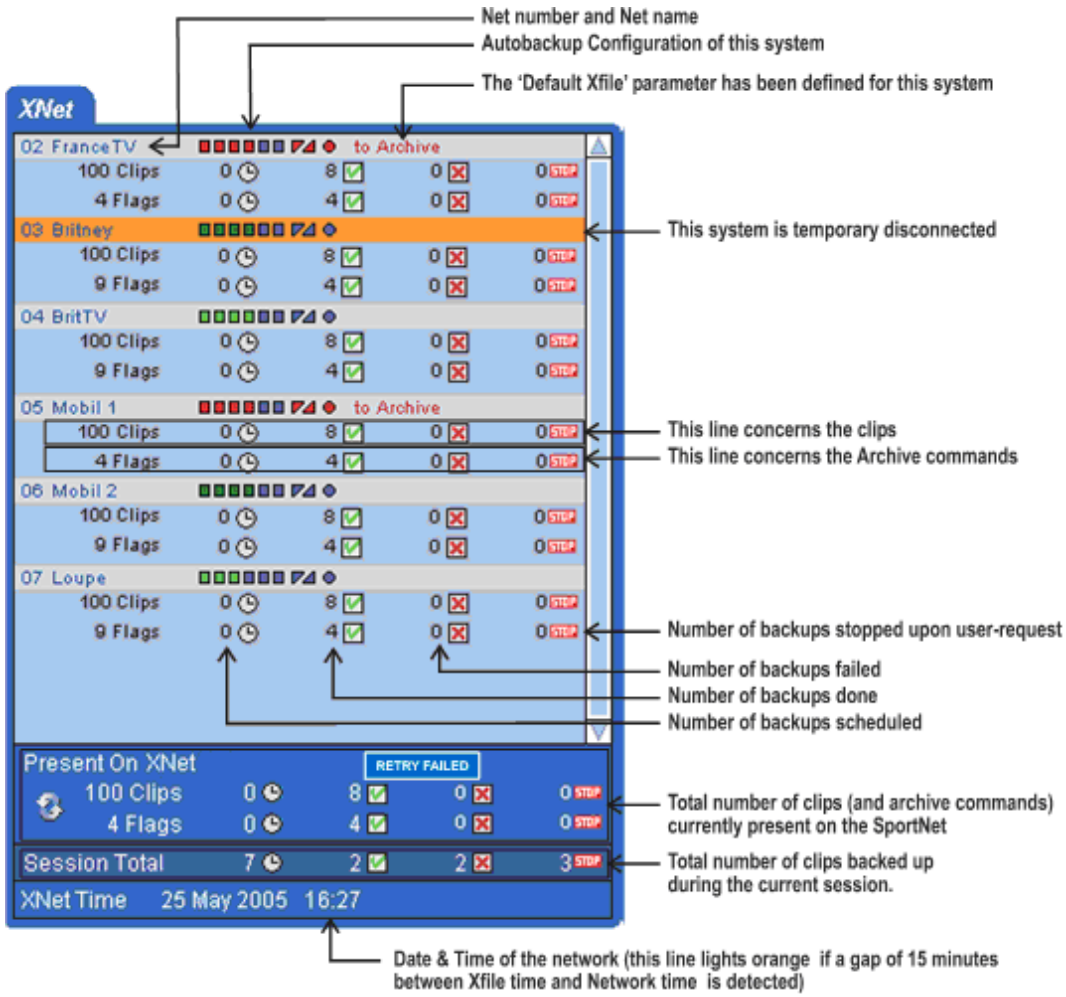
Other modes (backup, restore and maintenance) are also available during autobackup: several modes can operate simultaneously.

3.5.2 Autobackup Main Window

The Autobackup main window is divided into several areas. The two main areas are the **XNet list** which monitors the XNet activity and the **XFile list** which displays the contents of the XFile paths.

3.5.3 XNet List

In Autobackup mode, the XNet tab gives an overview of the autobackup criteria and on the clip backup information.



When the Backup mode is activated together with the Autobackup mode, the XNet list is displayed as described for the Backup mode. Refer to section 3.6.1 ‘XNet List’ on page 71.

Note

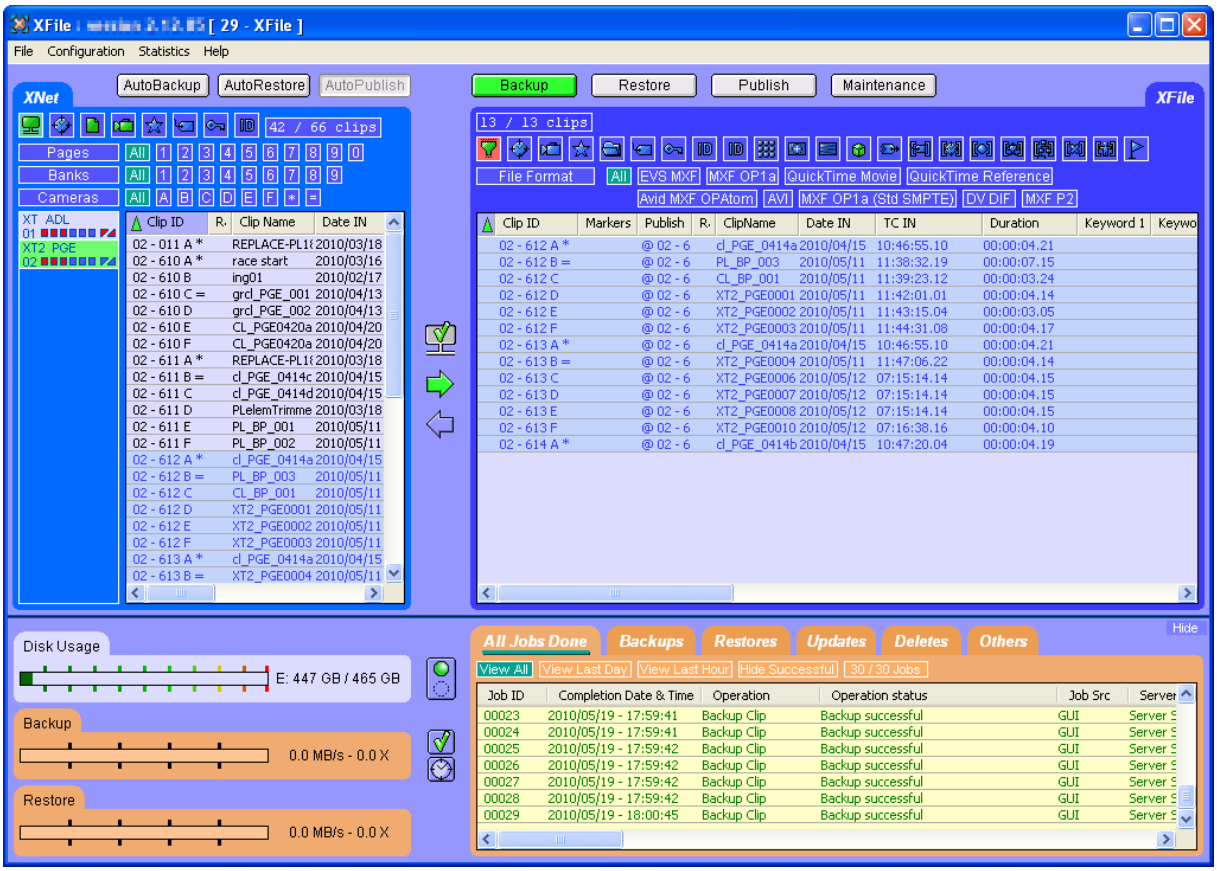
Working with copies of clips can affect the value of the different counters. Use the **Refresh** button in the XNet field for refining the current values.

Note

The **Retry Failed** button is active when errors occur.

3.6 Backup Mode

Click Backup to enter the Backup mode.



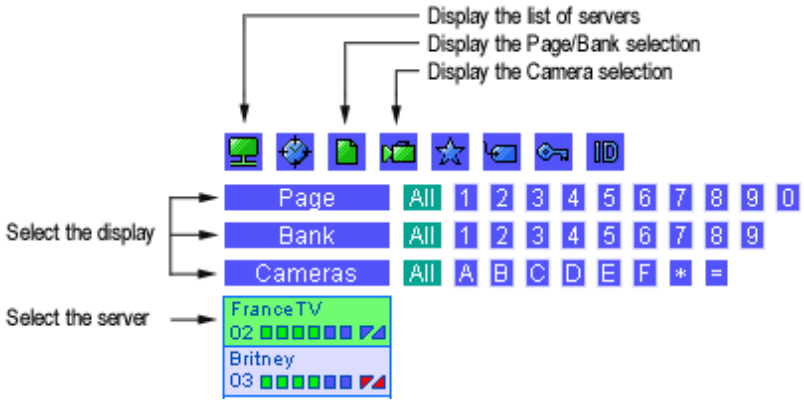
3.6.1 XNet List

In Backup mode, the XNet tab shows the clips available on the XNet depending on the selected criteria, as displayed in the screenshot above.

3.6.2 How to Start Manually the Backup of a File

To start the backup of a file, proceed as follows:

1. Click the **Backup** button to activate the mode.
2. In the XNet area, select the server from which clips will be backed up. To display the list of servers present on the XNet, click .
3. Click again to change the display of the list and find the clip to back up.
4. In the XNet list of clips, select the page, the bank and the camera of the clip to be backed up:
   - To display the page/bank list, click
   - To display the list of cameras, click



5. Define any other available criteria to refine your selection on the XNet list of clips. See the section ‘Autobackup Mode’, on page 68 for more details on the filters.
6. Select the clip from the list.
7. Click to initiate the transfer.

Note

Same command can be used to manually update the files already saved to XFile disks.

In the XNet list the clips already saved to XFile are displayed with blue characters:

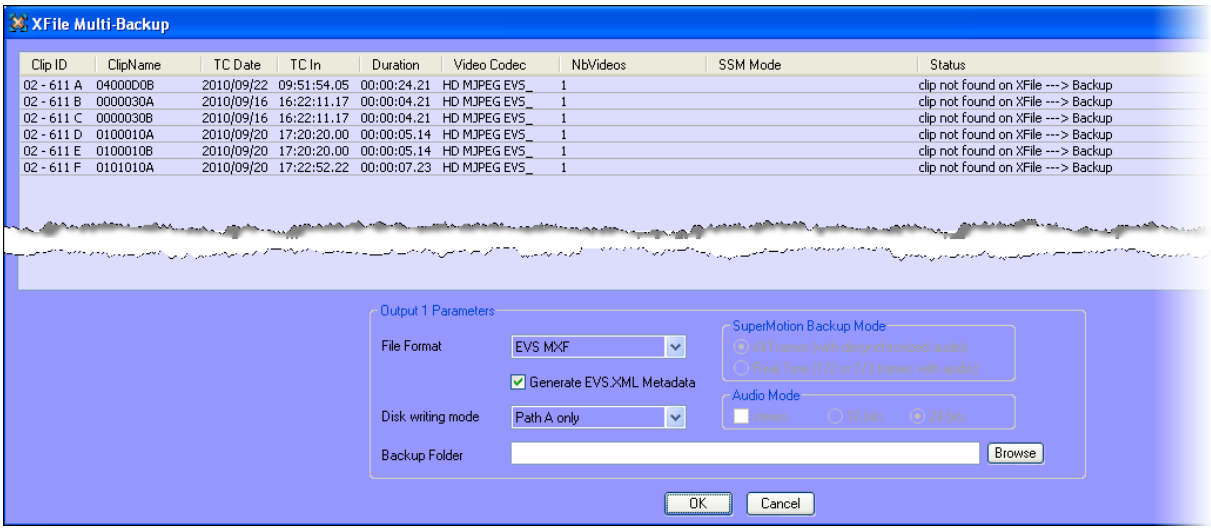
02 - 020 B =	name_1	15:13:49.12
02 - 020 C	name_2	15:13:49.12

3.6.3 How to Perform a Multi-Selection for Manual Backup

To select multiple clips from an EVS video server and back them up manually, proceed as follows:

1. Define the selection criteria to retrieve a list of clips from the XNet.
2. To select the clips in the XNet list of clips, do one of the following:
   - To select a list of contiguous clips, press **SHIFT** and select the first and last clips of the list.
   - To select non-contiguous clips, press **CTRL** and select the clips.
   - To select all the clips displayed, press **CTRL** + **A**. The **Select All** command is also available via the contextual menu on the list of clips.
3. To validate the selection, do one of the following:
   - If you want to back up the selected files in the default format, click  .
   - If you want to back up the selected files and possibly modify the default output format, press **CTRL** +  .

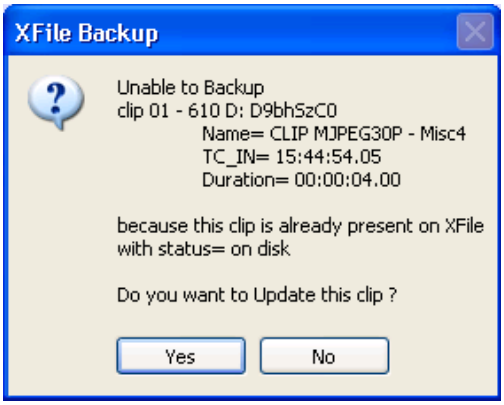
   In both cases, the XFile Multi-Backup window opens. In the second case, the **Output Parameters** field group is available at the bottom of the window:



4. If applicable, select the requested output format from the **File Format** field.
5. If required, select the appropriate Disk Writing Mode, SuperMotion Backup Mode and Audio Mode from the **Output Parameters** field group.
6. In the XFile Multi-Backup window, the clips selected are listed with the current status.
7. Click **OK** to confirm and to initiate the transfer.

If no information is specified in the Status column, the backup will be performed.

If the 'clip already on disk' message is displayed in the Status column of one or more clips, the following message will ask the user to confirm that the backup has to be done again:



Note

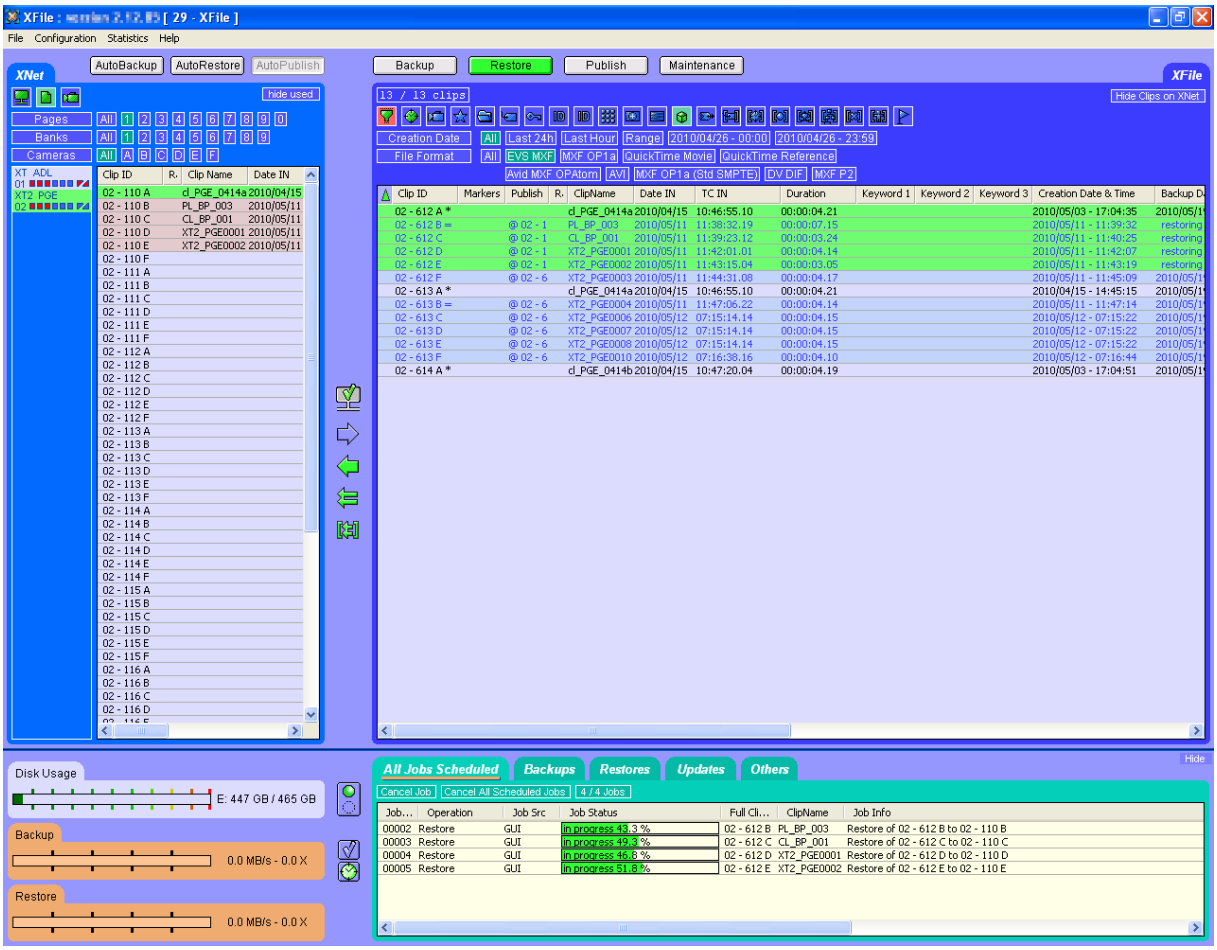
All operations (Backup and Restore) are successive.

3.7 Restore Mode

Click 

to enter the Restore mode.

The XFile can also be used as a security backup. Clips can be restored from the XFile to any other EVS video server on the network.

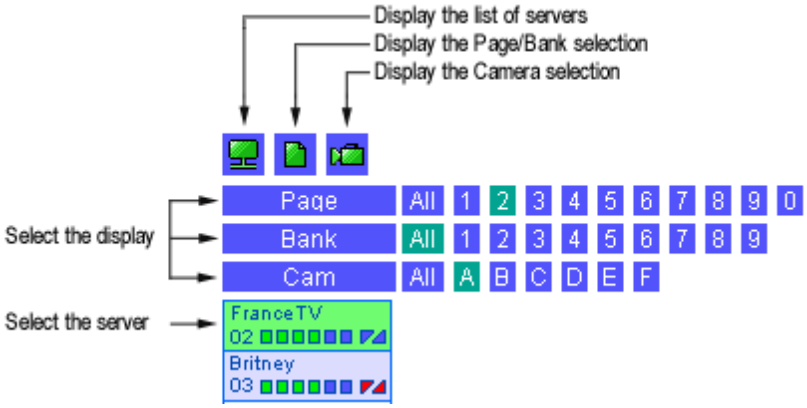


3.7.1 How to Restore a File

To restore a backed up file on an EVS video server, proceed as follows:

1. Click the **Restore** button to activate the mode.
2. Select the clip from the XFile list.
3. Select the server from the XNet area: to display the list of servers present on the XNet, click  .

4. Change the display of the list to find one location where to restore the clip. To specify this location, select the page, the bank and the camera selection :
   - To display the page/bank list, click  .
   - To display the list of cameras, click  .



5. Select an available location in the XNet list.
6. To restore the clip to the location specified on an EVS video server, do one of the following:
   - Click  (RESTOREclip) to initiate the transfer of the selected clip. The UmID (ID-material/ID-louth) is preserved.
   - Click  (COPYclip) to initiate the transfer and to create a COPY of the selected clip. In this case a new UmID is defined.

     To ensure the validity of data during operations, only one UmID can be present on the same network. Then if the operator has to use identical clips on several machines, the COPYclip command is advised to restore several versions of the same clip.
   - Click  (Short COPYclip) to initiate the transfer of a shorter copy of the selected clip. Only the V/A material included between the IN and the OUT points (without guardbands) will be restored. In this case, a new IDmaterial and a new IDlouth are defined.

The clips being restored on an EVS video server are seen in Multicam as growing clips. They can be played as soon as the Restore operation has started.

Note

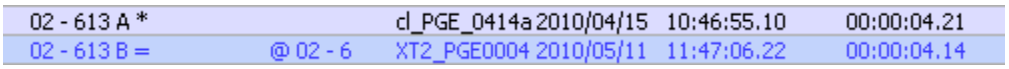
While moving/copying a clip, the ID-material is preserved.

If the user COPIES a clip to a new location (making a new ID Louth) then the XFile will back up the new data.

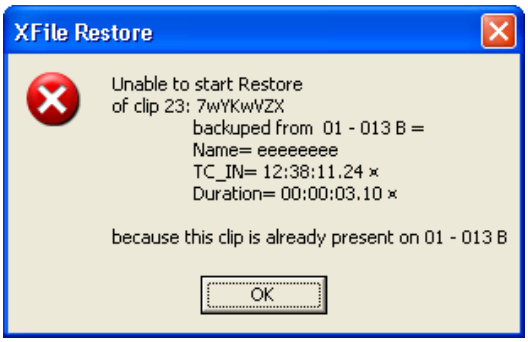
If the user MOVES a clip (ID Louth is maintained), then the XFile will update the original clip.

3.7.2 Clips Already Present on the XNet and Transfer Errors

In the XFile list, the clips already present on the XNet are displayed with blue characters:



If a clip selected for restore is already present on the XNet network, the following error message informs the operators when they choose the transfer mode:



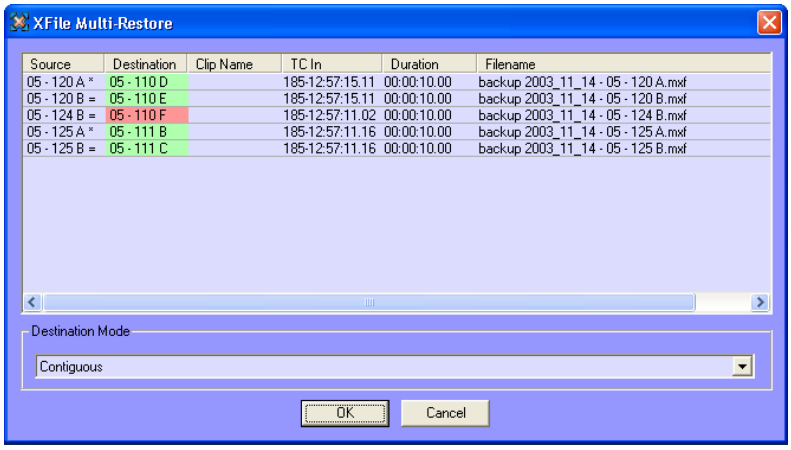
In this case, the operators have to use the COPYclip command  to initiate the transfer and create a copy of the clip.

3.7.3 How to Perform a Multi-Selection for Restore

To select multiple clips from an XFile to restore them to an EVS video server, proceed as follows:

1. In the XFile list on the main XFile window, do one of the following:
   - To select a list of contiguous clips, press **SHIFT** and select the first and last clips of the list.
   - To select non-contiguous clips, press **CTRL** and select the clips.
   - To select all the clips displayed in the XFile list, press **CTRL** + **A**. The **Select All** command is also available via the contextual menu on the list of clips.
2. Select the server from the XNet list.
3. Change the display of the list to find one location.
4. In the XNet list, select the first location to restore the clips.

5. Click  or  to open the following window:

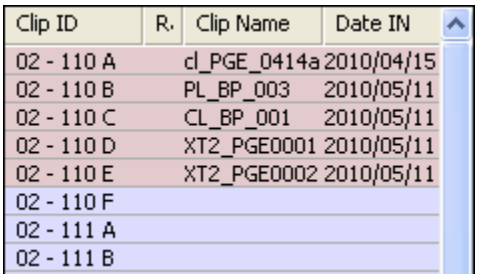


- If the selected location is free, the clip destination lights green.
- If the selected location is already filled, the clip destination lights red. In this case, the clip restore will be aborted. A second operation is necessary to restore the clip to another location on the XNet.

Select a restore method from the **Destination Mode** drop-down list. For more details, refer to the section ‘Restore Destination Mode’, on page 78.

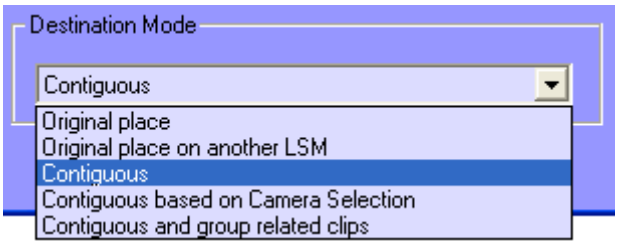
6. Click OK.

Restored clips are displayed in the XNet list:



3.7.4 Restore Destination Mode

The destination mode in the XFile Multi-Restore window allows the users to specify where the clip will be restored:



Option	Description
Original Place	The clip returns to its previous location on the XNet. In this case, the selection performed in the XNet list is not taken into account. If the previous location is not free, the user needs to select another Restore Destination mode.
Original place on another LSM	The clip returns to its previous location (page, bank,…) on the XNet but is restored to another system. In this case, the selection performed in the XNet list is not taken into account.
Contiguous	The group of clips is restored to all locations contiguous to the location selected in the XNet list.
Contiguous based on camera selection	The group of clips is restored to locations contiguous to the location selected in the XNet list, but only on the selected cameras.
Contiguous and group related clips	The system will recompose the group of related clips. For example: Clip 111A returns to location A, clip 111B returns to location B,…

3.8 Publish Mode

NEW !

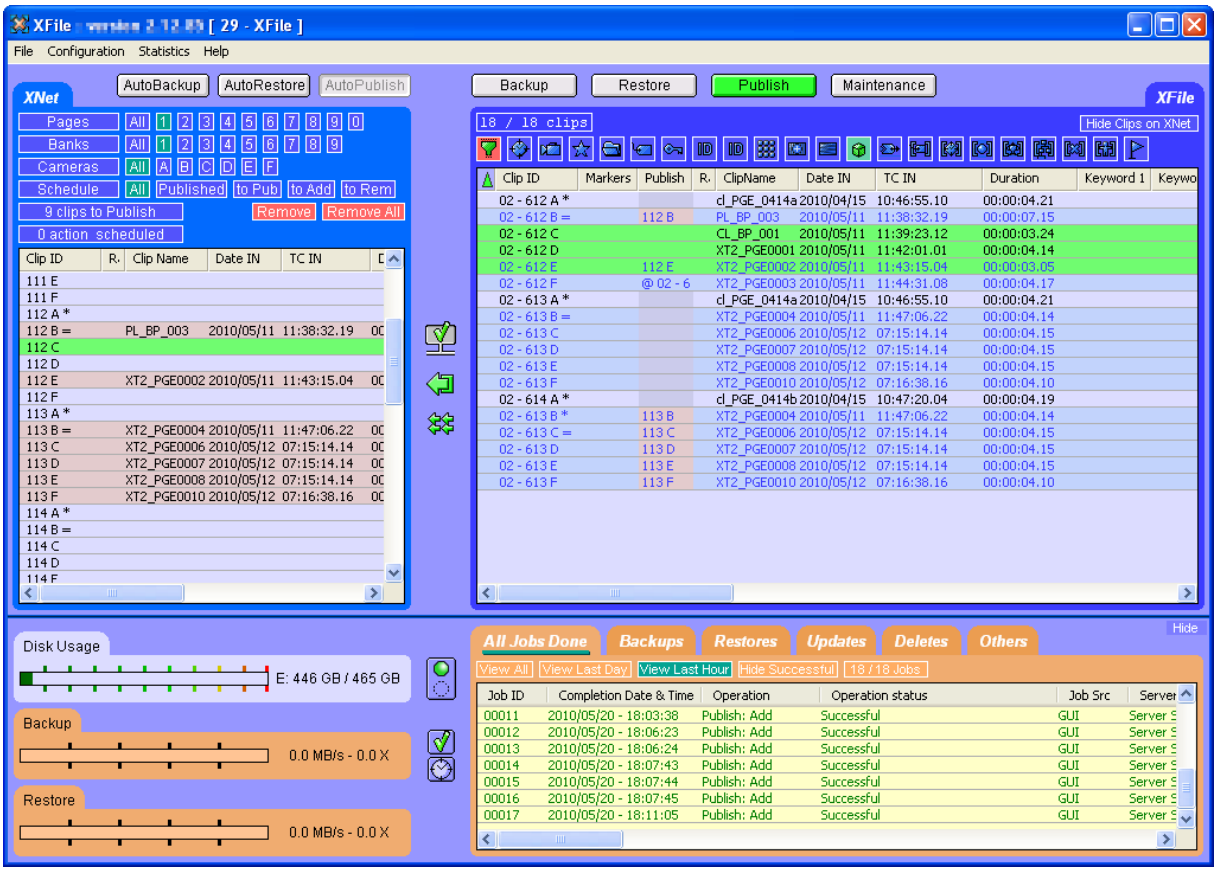
Note

The Publish Mode is not available in LinX mode.

Click Publish to enter the Publish mode.

The Publish mode gives a direct access to the clips saved to XFile disks. A batch of clips can be organized in a 'page/bank/cam' structure and can be accessible – for selection and playback – via the Remote Control panel and/or the VGA of the Multicam, or from the **Clips > XFile** node of the IPDirector Database Explorer.

In Publish mode, the counters, the filters and the selection modes are similar to the Restore mode.



3.8.1 Publish Modes

The following Publish modes are available:

- Fast Publish, which corresponds to the previous Publish mode and disconnects and re-connects the XFile from the XNet
- Online Publish, which is now the default mode and works without the disconnect / re-connect process, but which takes more time, especially when the number of clips is important.
- AutoPublish: refer to section 3.3.4 ‘Tab 4 – Scan Folder’ on page 30.

3.8.2 How to Publish Clips

To publish a clip stored on the XFile disk, i.e. to give access to it from the Remote panel, from the VGA of the Multicam application, or from the **Clips > XFile** node of the IPDirector Database Explorer, you can choose between Online Publish and Fast Publish.

Online Publish

To publish one or several clips with **Online Publish**, proceed as follows:

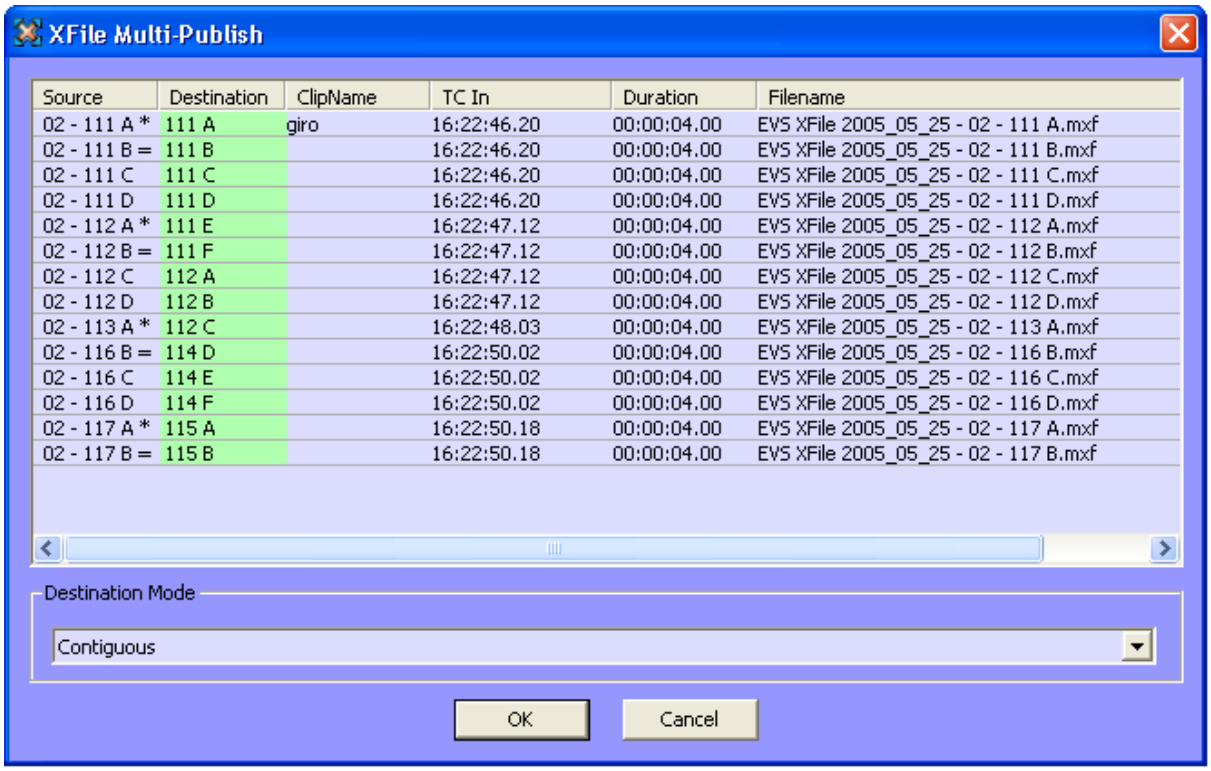
1. Click the **Publish** button to activate the mode.
2. From the XFile list, select the clip you want to publish.

   To select multiple clips, do one of the following:

   - To select a list of contiguous clips, press **SHIFT** and select the first and last clips of the list.
   - To select non-contiguous clips, press **CTRL** and select the clips.
   - To select all the clips displayed in the XFile list, press **CTRL** + **A**. The **Select All** command is also available via the contextual menu on the list of clips.
3. Change the display of the XNet list to find one location.
4. Select the location to publish the clips in the page, the bank and the camera selection.
5. Click  (Online Publish) to initiate the transfer of the selected clips.
6. If you have selected **multiple clips**, the XFile Multi-Publish window opens:

   - If the selected location is free, the clip destination lights green.
   - If the selected location is already filled, the clip destination lights red. In this case the publication of this clip will be aborted.

   Select a publishing method from the **Destination Mode** drop-down list and click **OK**. For more details on the various options, see section ‘Restore Destination Mode’, on page 78).



7. You may switch to the Fast Publish mode by clicking the (Fast Publish) button.
8. Select other clips from the XFile list and repeat the operation.

Clips are sent to XNet. Depending on the number of clips, this operation can take some time.

In the XFile list and XNet list, clips are highlighted in:

- light yellow when the publish is scheduled
- light orange when the publish is done

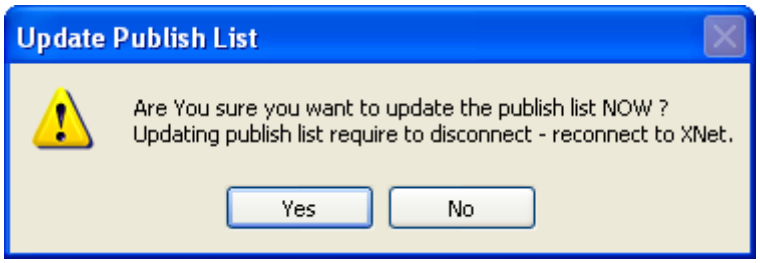
The counter and the Publish column of the XFile list are updated as clips are published.

Fast Publish

To publish clips with **Fast Publish**, you first need to initiate the Online Publish transfer. To do so, proceed as follows:

1. Repeat steps 1 to 4 from the Online Publish procedure detailed above.
2. Click  (Fast Publish) to switch to switch to the Fast Publish mode for the transfer of the selected clip.

   A message warns you that XFile will be disconnected from the XNet.



3. Click **Yes**.
4. Select other clips from the XFile list and repeat the operation.

The XNet list, the counter and the **Publish** column of the XFile list are updated as soon as XFile is reconnected to the XNet.

Warning

The Fast Publish command will disconnect the XFile from the XNet, and then re-connect the XFile to the XNet. During this operation, the Multicam database is updated with the new publish list of the XFile.

This command will stop the current playbacks of XFILE clips.

This command will make 'unavailable' the XFILE clips included into a playlist, unless the original UmID is kept, if configured in User Parameters. Refer to section 3.3.8 'Tab 8 – User Parameters' on page 43.

3.8.3 How to Un-publish a Clip

When you work with Online publish mode, you can remove published clips from the XNet list. To do so, proceed as follows:

1. Select the clip(s) from the XNet list.
2. Click **Remove**.

   Clips are highlighted in light red in the XNet list when the remove operation is scheduled and they disappeared from the XNet list when the operation is completed.

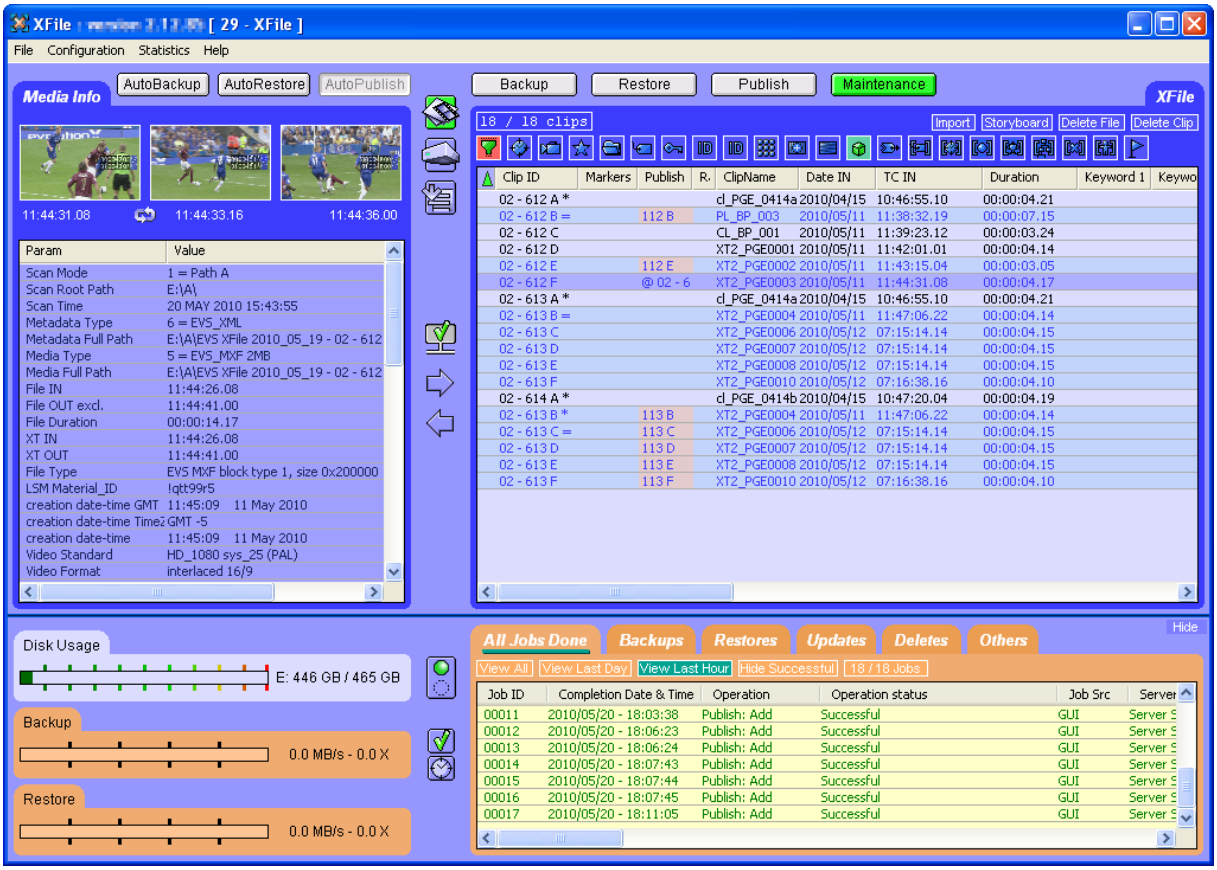
The counter and the **Publish** column in the XFile list are then updated.

3.9 Maintenance Mode

3.9.1 Accessing the Maintenance Mode Window

Click Maintenance to enter the Maintenance mode.

The Maintenance window opens:



3.9.2 Maintenance Features

Four different maintenance sub-modes are available in the Maintenance window. You select the maintenance feature you want to use by clicking the corresponding button.

The following table gives a short overview of the main actions available in the various maintenance sub-modes:

Sub-mode	Description
Clip Maintenance 	The Clip Maintenance makes it possible to: • view the metadata of a clip • delete backup clips and files from the XFile disks • generate a storyboard, i.e. an HTML file with thumbnails and information on all the clips displayed in the XFile list. • Import files from third party. For more information, refer to the section 3.10 ‘Clip Maintenance’, on page 85.
Disks-Folders Maintenance 	The Disks-Folders Maintenance makes it possible to: • create and delete folders in the XFile data paths to maintain the folder structure on the XFile disks • create and delete external folders on the XNet network • move files to folders of the XFile data paths • copy files to external folders. For more information, refer to 3.11 ‘Disks-Folders Maintenance’, on page 95.
Playlist Maintenance 	The Playlist Maintenance makes it possible to: • save a list of clips as a playlist on an XFile disk • publish and restore the playlist on the XNet network (not yet available). • export the playlist to a single media file. • backup a server playlist into a single media file (render XT playlist) For more information, refer to 3.12 ‘Playlist Maintenance’, on page 99.

3.10 Clip Maintenance

From XFile version 1.14, you can back up clips manually and automatically into different formats of backup files.

From XFile version 2.00.30, you can view and maintain all the formats of backup files in the Clip Maintenance mode.

Warning

To be able to view and maintain the backup files having another format than EVS MXF, you need to make sure that the EVS XML file including the file/clip metadata is located in the same folder as the backup file.

3.10.1 Introduction

Access

Click on the **Clip Maintenance** button  to enter the Clip Maintenance.

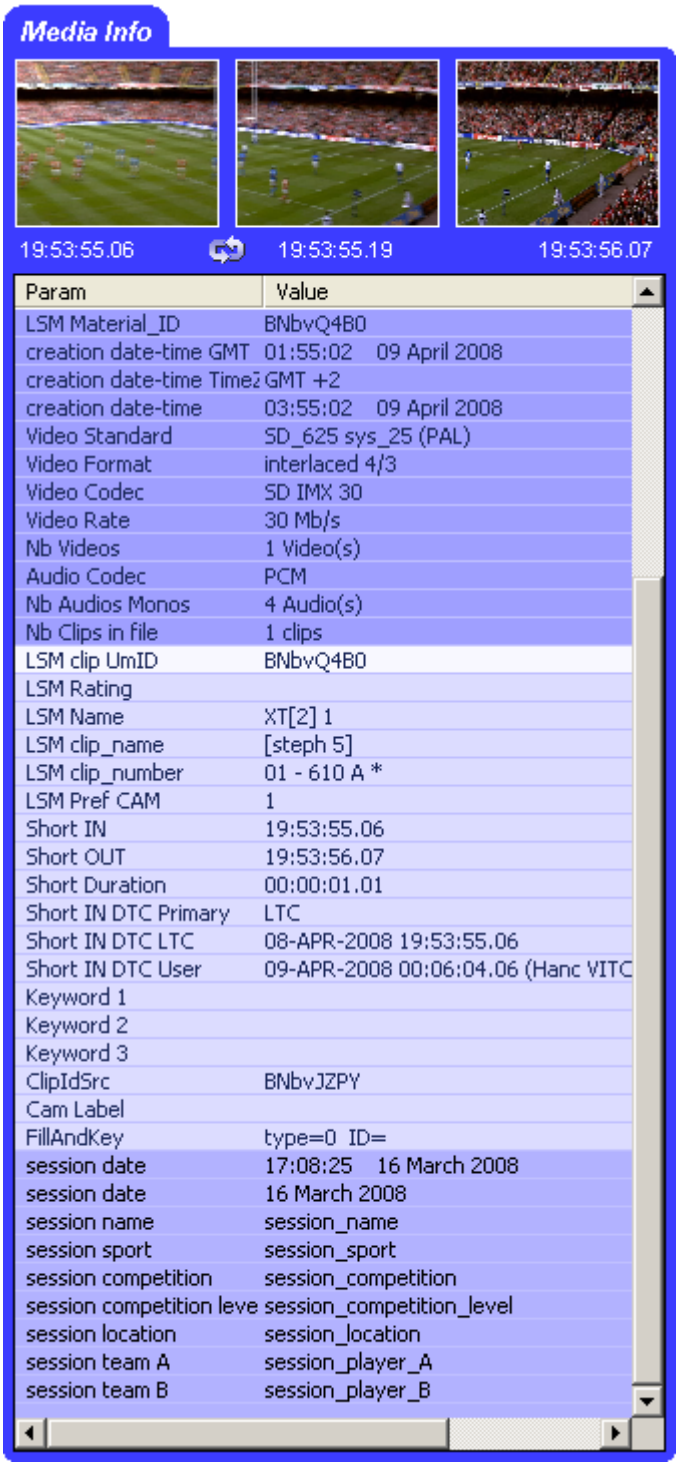
Available Functions

In Clip Maintenance, you can perform the following actions:

- viewing all the metadata of a clip
- deleting backup clips and files from the XFile disks
- converting backup clips to EVS MXF 2MB
- transferring backup clips to Avid Ingest Device or Xedio
- importing files from third parties. See also section 3.10.6 ‘Importing Files from Third Party Systems’ on page 94.
- generating an HTML file with thumbnails and information on all the clips displayed in the XFile list. See also the section 5.4 ‘Storyboard’, on page 177.

3.10.2 Media Info Area

When you click the **Clip Maintenance** button, the Media Info area opens on the left of the window. The Media Info area displays the current parameters and values saved to the descriptive metadata of the backup file.

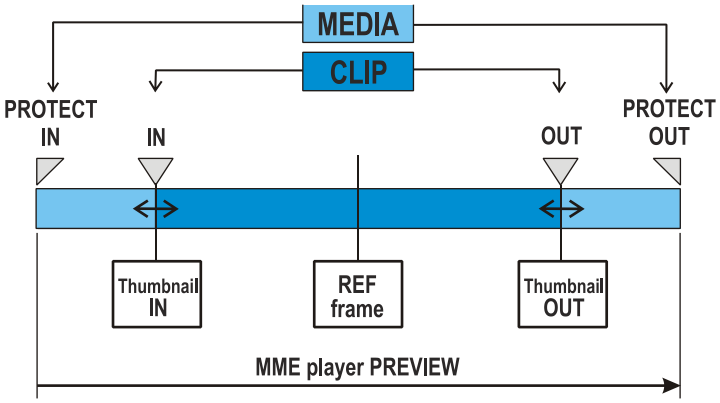


Thumbnails

The thumbnails defined for each file are extracted from the MJPEG files.

The thumbnail shows the following frames from left to right:

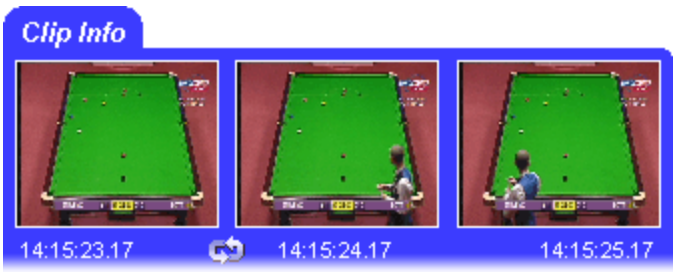
- the IN (i.e. SHORT IN) frame,
- the REF frame (automatically defined in the middle of the clip),
- the OUT (i.e. SHORT OUT) frame.



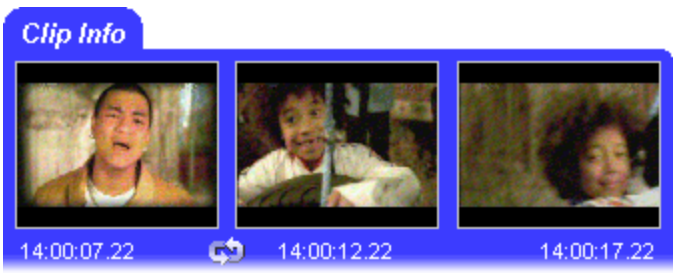
The XFile versions previous to the version 1.01.05 do not include the thumbnails creation process. Use the button to create new thumbnails or to update the current thumbnails.

The thumbnail format respects the aspect ratio of the different video signals.

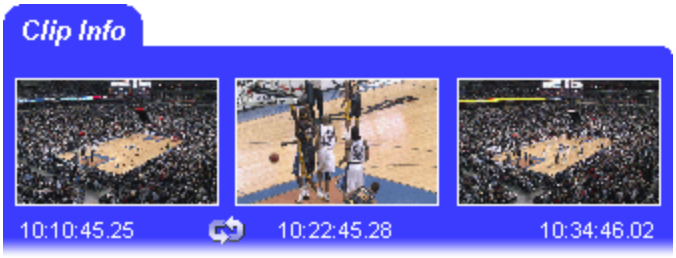
SD clips are displayed with 4:3 aspect ratio.



16:9 SD clips are displayed with the usual black strips.



HD clips are displayed with 16:9 aspect ratio.



File and Clip Metadata

From XFile V.1.14, clips created on EVS video servers can be backed up in different file formats. The backup files having different formats can be maintained in XFile.

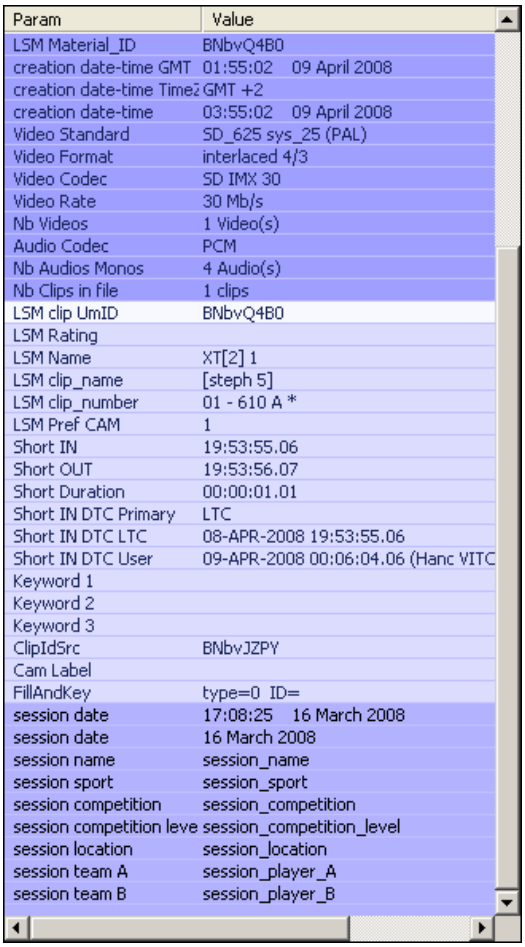
The metadata of the EVS MXF files is stored in the header of the MXF file.

The metadata of backup files having other formats needs to be stored in a metadata XML file.

The first parameters (dark blue) display the file parameters, the A/V parameters given by the XNet: clip duration, TC IN and OUT excl., **ID-material**, creation date-time, the video standard and format, number of video signals (SLSM = 3), number of audio tracks, audio type and the number of clips included in this MXF file.

The following parameters (light-blue) are divided by clip section. These parameters can be different from one clip to the other: the unique **UmID**, rating, clipname, LSM clip number, SHORT IN and OUT points, duration and the different keywords.

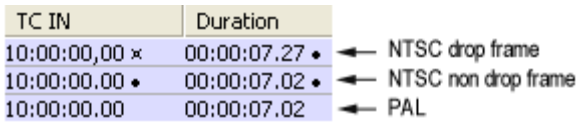
The last parameters (dark blue) display the current values saved to the Session Configuration window. These parameters are common for each clip.



Param	Value
LSM Material_ID	BNbvQ4B0
creation date-time GMT	01:55:02 09 April 2008
creation date-time Time2	GMT +2
creation date-time	03:55:02 09 April 2008
Video Standard	SD_625 sys_25 (PAL)
Video Format	interlaced 4/3
Video Codec	SD IMX 30
Video Rate	30 Mb/s
Nb Videos	1 Video(s)
Audio Codec	PCM
Nb Audios Monos	4 Audio(s)
Nb Clips in file	1 clips
LSM clip UmID	BNbvQ4B0
LSM Rating	
LSM Name	XT[2] 1
LSM clip_name	[steph 5]
LSM clip_number	01 - 610 A *
LSM Pref CAM	1
Short IN	19:53:55.06
Short OUT	19:53:56.07
Short Duration	00:00:01.01
Short IN DTC Primary	LTC
Short IN DTC LTC	08-APR-2008 19:53:55.06
Short IN DTC User	09-APR-2008 00:06:04.06 (Hanc VITC
Keyword 1	
Keyword 2	
Keyword 3	
ClipIdSrc	BNbvJZPY
Cam Label	
FillAndKey	type=0 ID=
session date	17:08:25 16 March 2008
session date	16 March 2008
session name	session_name
session sport	session_sport
session competition	session_competition
session competition leve	session_competition_level
session location	session_location
session team A	session_player_A
session team B	session_player_B

Note

Depending on the time code and video systems, the time code in the column is displayed with different characters:



The duration for NTSC clips is always calculated on non-drop-frame basis.

Note

The **Nb Videos** field is the only way to identify the SuperMotion Backup Mode used to backup SSLM clips:

- 1 video(s) for clips backed up with 1/2 or 1/3 frames.
- 2 or 3 video(s) for clips backed up with all frames.

3.10.3 Deleting Backup Clips and Files

As several clips may be linked to a backup file, the **Delete** command has been split in 2 buttons: **Delete File** and **Delete Clip**. Both commands are available in the upper right part of the XFile area of the Maintenance window.

To mark the clips and the files out, it is advised to change the display to 'Group' in the Media / Clips filter.

The group of clips is represented with brackets in the XFile list.

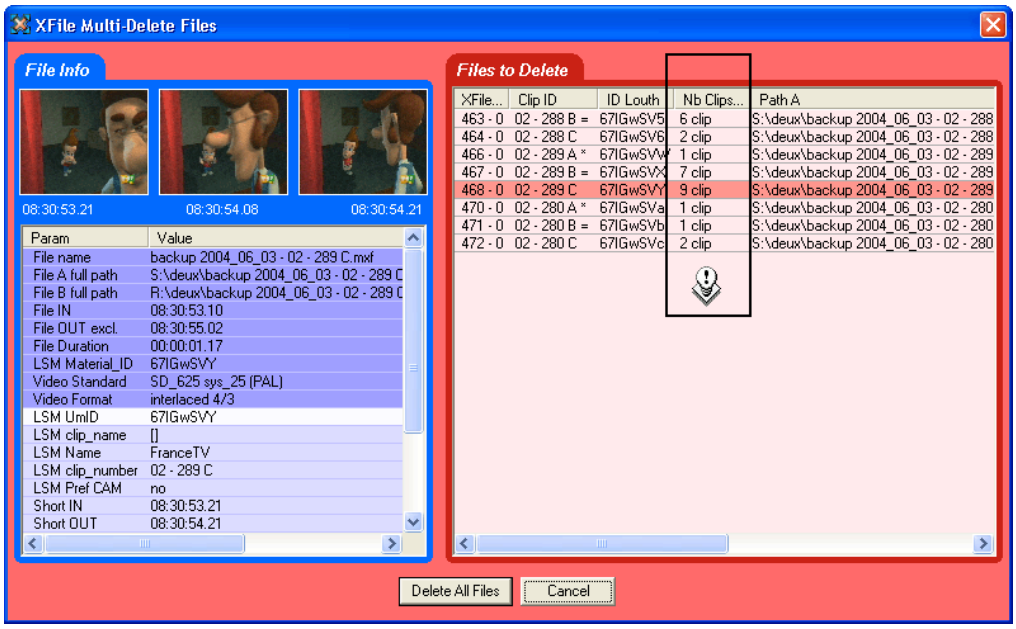
Associated XML files are deleted together with the backup files.

Warning

Special attention must be brought to MXF OPAtom files, as all the associated audio files are not always deleted.

How to Perform a Multi-Selection To Delete Backup Files

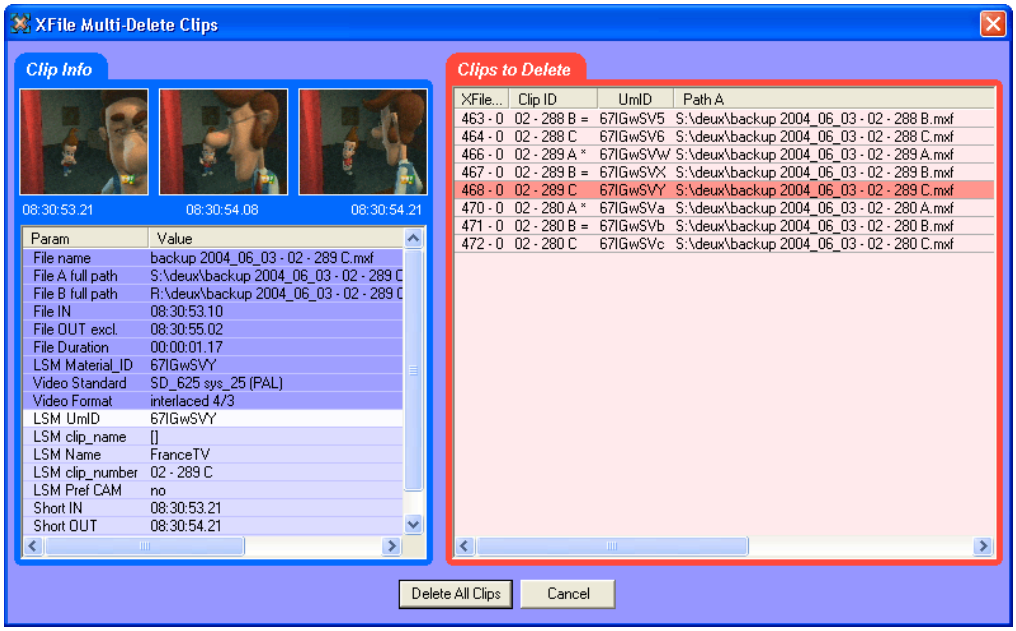
1. Press **SHIFT** or **CTRL** and select a batch of files from the XFile list.
2. Click Delete File to open the XFile Multi-Delete Files window:



3. This window allows the operator to review the files before deletion. Pay attention to the number of clips included in each file. Deleting the file will delete all the clips included in this file.
4. Click **Delete All files** to confirm the command or **Cancel** to abort the operation.

How to Perform a Multi-Selection To Delete Clips

1. Press **SHIFT** or **CTRL** and select a batch of files from the XFile list.
2. Click Delete Clip to open XFile Multi-Delete Clips window. This window allows the operator to review the clips before deletion:



3. Click **Delete All Clips** to confirm the command or **Cancel** to abort the operation.
4. If one/several clips is/are the last clip(s) into the MXF file, the following message notices the operator:

5. Click **OK** to close the message box and to switch to the Multi-Delete Files window (shown on a red background).
6. Click **Delete All files** to confirm the command or **Cancel** to abort the operation.

3.10.4 Converting Backup Files

From Multicam version 9.00, the A/V material and data are stored in 8MB blocks, no longer in 2MB blocks. In XFile, the EVS MXF backup files will still be created in 2MB block format. When the EVS MXF backup files, or any other backup file in another format are restored, they are obviously restored in the 8MB block structure on the EVS video server.

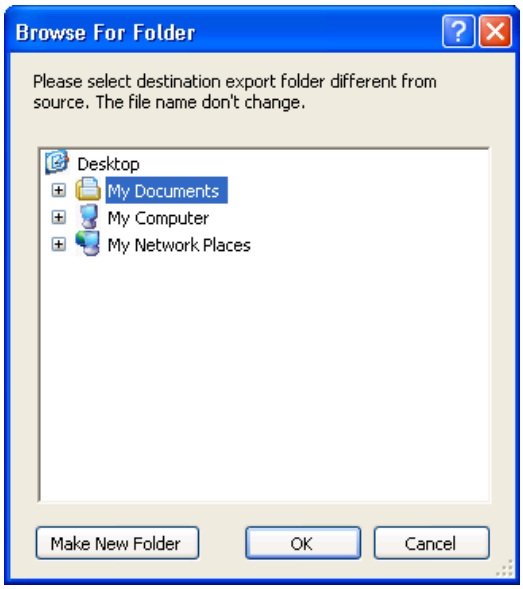
How to Convert Manually Backup Files

Since the backup into EVS MXF files of 8 MB blocks was possible in the former version of XFile, you will still be able to convert such backup files to 2MB backup files in the Maintenance module. The converted backup files will be stored in a specified folder.

To convert manually EVS MXF files of 8MB blocks to EVS MXF files of 2MB, proceed as follows:

1. Select the file(s) to convert in the XFile list of the Maintenance module.
2. Right-click to open the contextual menu.
3. Select Transfer/Convert > Convert EVS MXF 8MB to 2MB.

   The Browse for Folder window opens:



4. Select the folder in which you want to save the converted files.
5. Click **OK**.

The converted backup files are generated and saved in the given folder with the default file name specified in the XFile Config. Session window, Advanced Parameters tab (see section ‘Backup Filename Format String’, on page 29).

3.10.5 Transferring Backup Files to External Systems

From the Maintenance module, it is possible to transfer the backup files to the Avid Ingest Device or to the Xedio suite.

How to Transfer Backup Files to Avid Ingest Device

To transfer backup files to Avid Ingest Device, proceed as follows:

1. Select the file(s) to convert in the XFile list of the Maintenance module.
2. Right-click to open the contextual menu.
3. Select Transfer/Convert > Transfer to Avid Ingest Device.

How to Transfer Backup Files to Xedio

To transfer backup files to Xedio, proceed as follows:

1. Select the file(s) to convert in the XFile list of the Maintenance module.
2. Right-click to open the contextual menu.
3. Select Transfer/Convert > Transfer to Xedio.

3.10.6 Importing Files from Third Party Systems

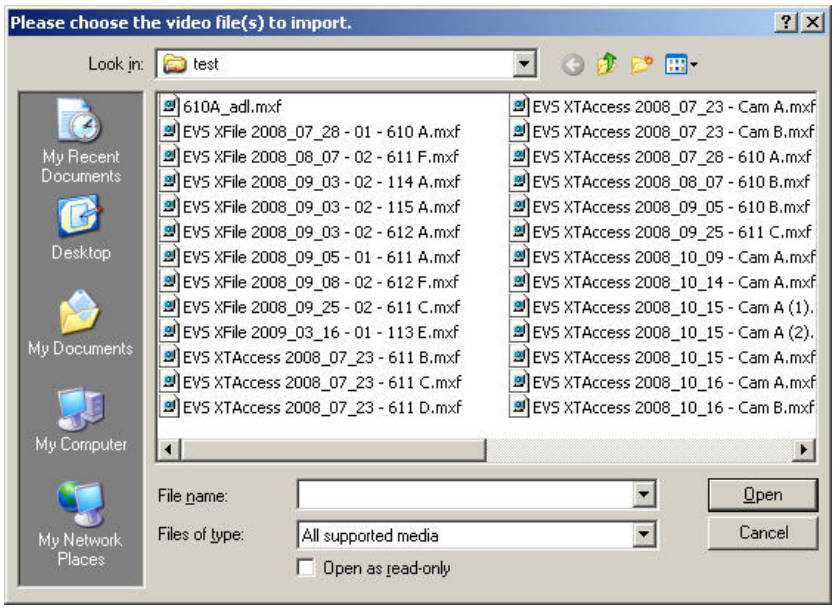
Files from third parties do not have a corresponding EVS.xml file containing the associated metadata. As they need to be available in XFile, the import function will result in the creation of an EVS.xml file containing the metadata that the system has been able to retrieve. File formats which can be imported are: MXF (EVS, OP1A), Quick Time .mov, P2 (CONTENTS\CLIP*.xml).

How to Import Files from Third Party Systems

To import files without EVS.xml file from third party system, proceed as follows:

1. Click the Import button.

   The Import window opens:



2. Select the file(s) you want to import and click **Open**.

The imported file is displayed in the XFile List.

An EVS.xml file is created with the file metadata.

Note

For any imported file that does not have a clipname, the filename can be used as clipname.

This must be set under Session Configuration > User Parameters > Import: Use Filename to fill Clipname Metadata. Refer to section 3.3.8 ‘Tab 8 – User Parameters’ on page 43.

3.11 Disks-Folders Maintenance

3.11.1 Introduction

Access

Click on the Disk button  to enter the Disks-Folders Maintenance mode.

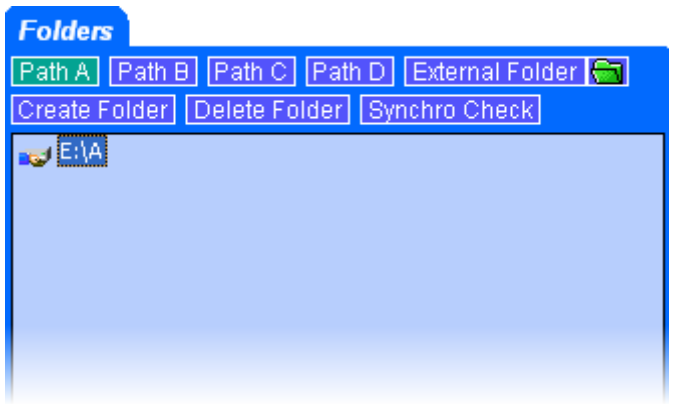
Available Functions

This mode allows the user to perform the following actions on files of any format with or without EVS XML file:

- moving and/or copying the clips backed up within the XFile Paths defined or to an external folder, outside the XFile paths,
- creating and deleting folders in the XFile data paths to maintain the folder structure on the XFile disks,
- creating and deleting external folders on the XNet network.

3.11.2 Folders Area

When you click the **Disks-Folders Maintenance** button, the Folders area opens on the left of the window. The Folders area displays the structure of the defined XFile paths and the possible external folders that are available outside the XFile paths.



3.11.3 How to Copy/Move Clips to Other XFile Folders

Warning

Clips are linked to a backup file. In this mode, the MOVE and COPY commands affect the backup file even if only a clip is selected.

The MOVE command is only accessible if the transfer of backup files operates between PATHs.

The COPY command is accessible for all transfers from/to external folders.

To move or copy clips to other XFile folders, proceed as follows:

1. Click on the button to enter the Disks-Folders Maintenance mode.

   The main screen changes to display the folders organization on the left part of the screen and the content of the XFile on the right part of the screen.
2. In the Folders tab, select one of the paths (e.g. Path A) or External Folder to display the folders.
3. Select one folder of destination, the selected folder lights dark blue.
4. Select a batch of **files** in the XFile list.
5. Click to initiate the MOVE file or click to initiate the COPY file.

3.11.4 How to Check the Synchronization Between Paths

When XFile is configured to back files up to two paths, the content of these paths should be the same. However, there are several ways to break the synchronization.

The Synchronization function can be used to compare the content of two folders.

To do this, proceed as follows:

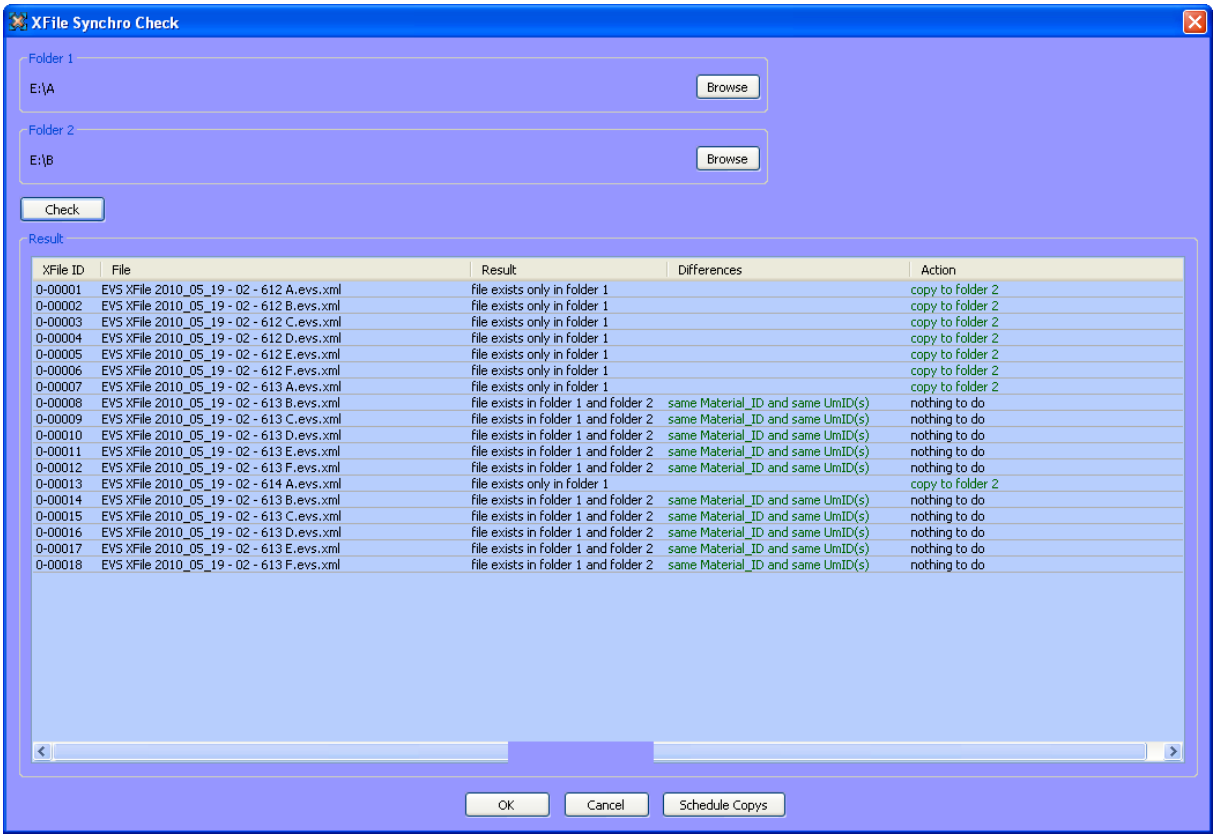
1. Click on the button to enter the Disks-Folders Maintenance mode.

   The main screen changes to display the folders organization on the left part of the screen and the content of the XFile on the right part of the screen.
2. In the Folders tab, click the **Synchro Check** button.

   The Synchro Check window opens.
3. Select the two folders to compare.

4. Click the **Check** button.

   The list displays all the files present in the folders.



   The Result column mentions where each file is present.
   When the same file is found in both folders, the Differences column indicates the result of the comparison between the two files.
   The Action column gives advice on what to do.

5. If needed, click the **Schedule Copies** button to copy files in the folder where they are not present.

3.11.5 Maintaining Folders in the XFile Paths

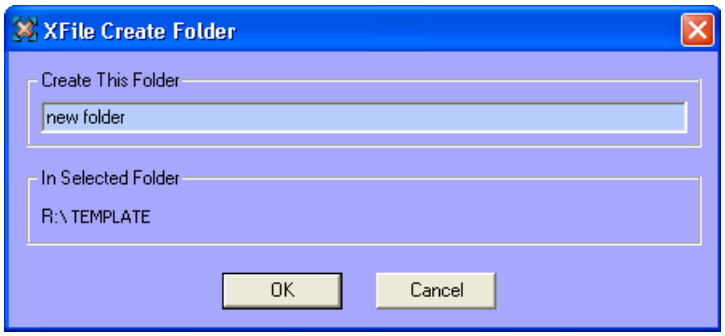
In the folder tab, two functions make the use of the folders list easier:

Create Folder Delete Folder

How to Create a Folder in the XFile Path

To create a new folder in the XFile Path, proceed as follows:

1. Select a position in the Folders tree where to create a new folder.
2. Click on the **Create Folder** button to open the XFile Create Folder dialog box:



3. Type the name of the new folder
4. Click **OK** to validate.

How to Delete a Folder in the XFile Path

To delete a folder in the XFile Path, proceed as follows:

1. In the Folders list, select a folder to delete.
2. Click on the **Delete Folder** button.
3. Answer 'Yes' to the following message to confirm the folder deletion:

3.12 Playlist Maintenance

3.12.1 Introduction

Access

Click on the Playlist Maintenance button  to enter the Playlist Maintenance.

Purpose

The purpose of the Playlist Maintenance is to offer the possibility to compile a playlist from all the best clips captured in the OB van and export the playlist of backup files into a single media file. The export process will also generate files including the playlist/clip metadata and the playlist definition.

In a future version, it will be possible to directly restore and publish the playlist created in XFile, with its distinct clips, onto an EVS video server.

The Playlist Maintenance also allows the backup (rendering) of a server playlist in the form of a single clip.

Available Functions

The Playlist Maintenance allows the user to perform the following actions:

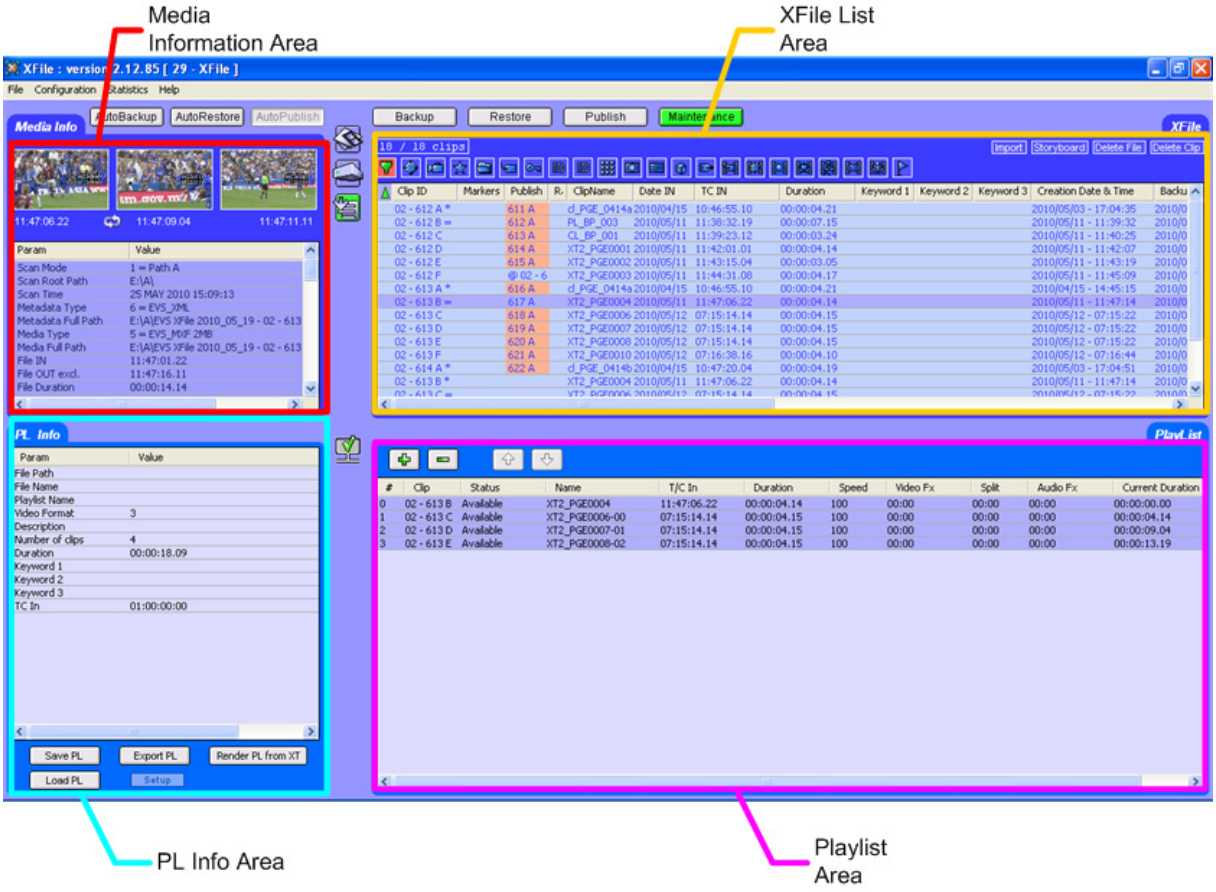
- save a list of backup clips as a playlist on an XFile drive
- export the playlist to a file
- render a playlist from an EVS video server into XFile

Note

The **Import** function is not intended to be used with playlists. Refer to section 3.10.6 ‘Importing Files from Third Party Systems’ on page 94.

3.12.2 Overview of the Playlist Maintenance Window

The Playlist Maintenance window is divided into four areas:



XFile List Area

The XFile List area provides the same features as the usual XFile List area.

When right-clicking on a clip, you access the following commands in the contextual menu:

- Modify the displayed columns.

  See also the section ‘Selecting Columns in the XFile List’, on page 48.

- Apply filters.

  See also the section ‘Filters’, on page 49.

- Transfer and convert backup files.

  See also the section 3.10.4 ‘Converting Backup Files’, on page 92 and the section 3.10.5 ‘Transferring Backup Files to External Systems’, on page 93.

- Edit a backup clip.

  See also the section 5.1 ‘Editing a Clip’, on page 157.

Media Info Area

The Media Info area contains the same information as the Media Info area available in the Clip Maintenance. Refer to section 3.10.2 ‘Media Info Area’ on page 86.

Playlist Area

The Playlist area displays the backup clips included in the playlist that is being or has been created.

Based on the clips selected in the XFile List area, you can perform the following actions in the Playlist area:

- adding clips to a playlist
- removing clips from a playlist
- changing the clip position in the playlist.

PL Info Area

The PL Info area (i.e. Playlist Information area) displays the metadata related to the playlist of backup clips.

You can also perform the following actions in the PL Info area:

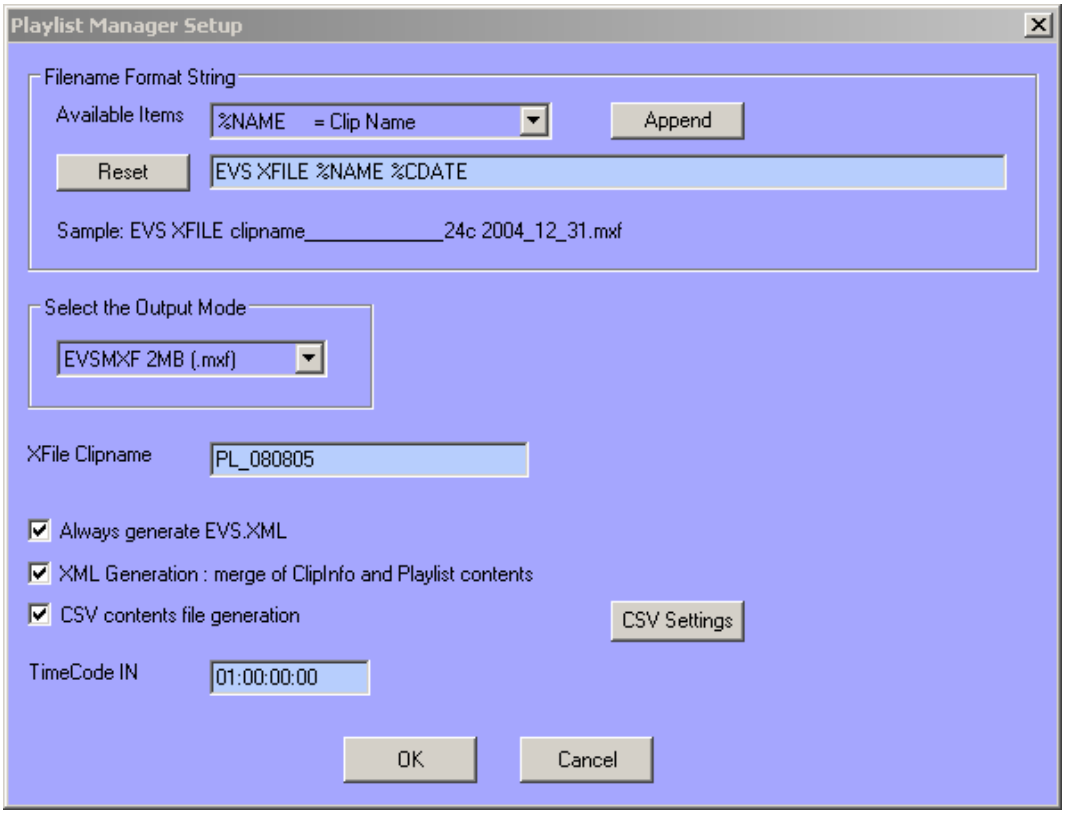
- saving and loading a playlist created in the Playlist area.
- exporting a playlist of backup clips into a single media file.
- specifying the parameters to be used when the playlist backup file, or the playlist rendered from server, and the XML file(s) are created.
- rendering a playlist from an EVS video server into a single media file to the XFile disks.

3.12.3 Settings for Playlists

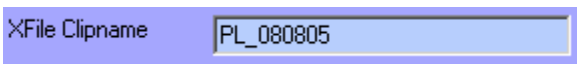
Accessing the Playlist Settings

The settings for creating and exporting backup playlists or rendering server playlists in XFile are defined in the Playlist Manager Setup window.

To access this window, click the Setup button in the PL Info area of the Playlist Maintenance window:

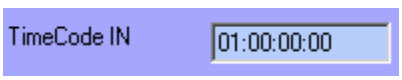


XFile Clipname Setting



The **XFile Clipname** field allows the user to specify the name of the clip made up from the backup playlist and exported to the playlist media file or the name of the clip made up from the playlist rendered from a server.

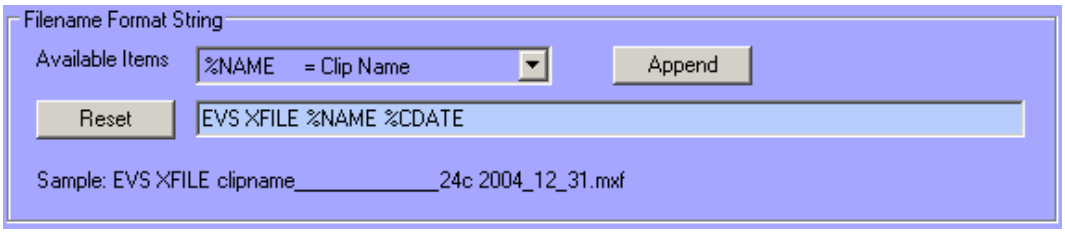
TimeCode IN Setting



The **TimeCode IN** field allows the user to specify the TC IN of the first clip in the backup playlist or the TC IN of the playlist rendered from a server.

Media File Settings

Filename Format String



The following filename is assigned by default to the media file including the playlist A/V material:

EVS XFILE_<clip name>_<creation date>.<file format extension>

The name of the media file is user-defined and can be modified as described in section 'How to Modify the Default Filename Format String', on page 29.

The user can reset the default filename by clicking the **Reset** button.

Output Mode

The output mode drop-down list box allows the user to specify to which file format the backup playlist should be exported or the rendered playlist should be backed up.

Three output modes are currently available:

- EVSMXF 2MB (.mxf)
- MXF OP1a (.mxf)
- QT (.mov)

Metadata File Settings

Always Generate EVS.XML

If you tick this check box, an EVS.XML file will always be created when the backup playlist is exported to a file or when the server playlist is backed up into a file.

XML Generation: merge of ClipInfo and Playlist Contents

If you tick this check box, the XML file for the playlist definition and the metadata information will be merged into a single XML file.

CSV contents file generation

If you tick this check box, the playlist definition file will be generated in the .CSV format, and not the usual XML format.

In this case, the setting for merging XML files cannot be taken into account if it is checked:

- The clip and playlist metadata are stored in an XML file.
- The playlist definition is saved in a CSV file.

CSV Settings

If you have ticked the **CSV contents file generation** check box, you need to specify:

- which playlist information you want to include in the CSV file
- which separator character you want to use to separate the data strings.

You can do this by clicking the **CSV Settings** button.

3.12.4 Creating and Maintaining a Backup Playlist in XFile

Introduction

Creating a playlist of backup clips in XFile will allow you to regroup several backup clips into a single entity. This will create two XML files in a dedicated folder:

- an XML file containing the playlist definition, i.e. an EDL file with the TC IN and TC OUT of each clips of the playlist.

  This has the extension <.xml> after the playlist name.

- an XML file containing the metadata of the playlist and included clips.

  This has the extension <.contents.xml> after the playlist name.

The settings for creating and exporting the playlist are defined in the Setup menu available from the **Setup** button in the PL Info area.

How to Create a Backup Playlist

To create a backup playlist in the Playlist Maintenance, proceed as follows:

1. In the XFile list area, search for and select the clips you want to add to a playlist:
   - To select a list of contiguous clips, press **SHIFT** and select the first and last clips of the list.
   - To select non-contiguous clips, press **CTRL** and select the clips.
2. In the Playlist area, click the  button to add the selected clip to the Playlist area.
3. To finalize your clip selection, you may need to perform one of the following actions:
   - To change a clip position in the playlist, select it in the Playlist area and click the  or  button to move it respectively down or up in the list.
   - To remove a clip from the playlist, select it in the Playlist area and click the  button.
   - To add one or more clips to the playlist, select the clip in the Playlist area after which you want to add the new clips. Then select and move the clips from the XFile List area to the Playlist area as explained above.
4. When the playlist is final, click the  button in the PL Info area.

   The **Save as** dialog box opens.
5. Select the folder where you want to save your playlist.
6. Type a file name in the **File Name** field.
7. Click **Save**.

The playlist is saved in XFile, the XML files are generated and the playlist can be reloaded at any time in the Playlist Maintenance area.

Note

If you want to create another playlist, you first need to remove all the clips from the Playlist area by selecting them and clicking the  button.

How to Load a Backup Playlist

You will load a backup playlist if you need to edit it or export it, or simply view its content. To load an existing backup playlist, proceed as follows:

1. Click the  button in the PL Info area.

   The **Open** dialog box opens on the folder where you last saved a backup playlist.
2. Select the playlist definition file (i.e. the file with the .xml extension) of the playlist you want to load.
3. Click **Open**.

The playlist is loaded in the Playlist area.

How to Modify a Backup Playlist

To modify a backup playlist, proceed as follows:

1. Load the playlist to modify as explained in the section 'How to Load a Backup Playlist', on page 105.

   The playlist is displayed in the Playlist area.

2. To modify your playlist, you can perform the following actions:
   - To change a clip position in the playlist, select it in the Playlist area and click the  or  button to move it respectively down or up in the list.
   - To remove a clip from the playlist, select it in the Playlist area and click the  button.
   - To add one or more clips to the playlist, select the clip in the Playlist area after which you want to add the new clips. Then select and move the clips from the XFile List area to the Playlist area as explained in step 1.

3. Click the  button.

   The **Save as** dialog box opens.

4. Do one of the following:
   - To save the changes in the pre-existing playlist, click the name of the modified playlist, click **Save** and answer 'Yes' to the message asking whether you want to replace the existing playlist.
   - To save the changes under a new playlist name, type a playlist name in the **File Name** field and click **Save**.

The playlist has been modified under its initial name or the modified playlist has been saved under a new name.

3.12.5 Exporting a Backup Playlist

Introduction

Exporting a playlist of backup clips from XFile will allow you to create a single media file. This file contains a long clip that concatenates the backup clips of the playlist with cut transitions.

The two XML files including the playlist definition and the metadata information will also be created in the same folder.

The settings for creating and exporting the playlist are defined in the Setup menu available from the **Setup** button in the PL Info area.

How to Export a Backup Playlist

Note

Before you export a backup playlist, ensure that the desired settings are defined in the Playlist Manager Setup window. See also the section 3.12.3 ‘Settings for Playlists’, on page 102.

To export a backup playlist, proceed as follows:

1. To make the playlist available in the Playlist area, do one of the following:
   - If the playlist to export already exists, load the playlist via the Load PL button. For more information, see also the section ‘How to Load a Backup Playlist’, on page 105.
   - If the playlist to export does not exist yet, create the playlist as explained in the section ‘How to Create a Backup Playlist’, on page 105.
2. Click the Export PL button in the PL Info area.

   The Save as dialog box opens.
3. Select the folder where you want to export your playlist to.
4. Type a file name in the **File Name** field.
5. Click **Save**.

The backup playlist is exported to a single media file. The XML files are also created in the same folder as the media file.

3.12.6 Rendering a Server Playlist

Introduction

Rendering a playlist from an EVS video server to XFile will allow you to backup a playlist into a single media file. This file contains a long clip that concatenates the clips of the server playlist with cut transitions.

Note

It is possible to render a playlist containing black clips.

The two XML files including the playlist definition and the metadata information will also be created in the same folder.

The settings for rendering the server playlist are defined in the Setup menu available from the **Setup** button in the PL Info area.

The **Load** and **Export** buttons are not intended to be used with a playlist rendered from server.

How to Render a Playlist from EVS Video Server

Note

Before you back a playlist up from an EVS video server, ensure that the desired settings are defined in the Playlist Manager Setup window. See also the section 3.12.3 ‘Settings for Playlists’, on page 102.

To back a server playlist up and render it into a single file into XFile, proceed as follows:

1. Click the Render PL from XT button in the PL Info area.

   The Render Playlist from Server dialog box opens:

2. Enter the EVS video server number and the playlist number.
3. Click **OK**.

The server playlist is rendered into a single media file and his new file is displayed in the XFile List area. The XML files are also created in the same folder as the media file.

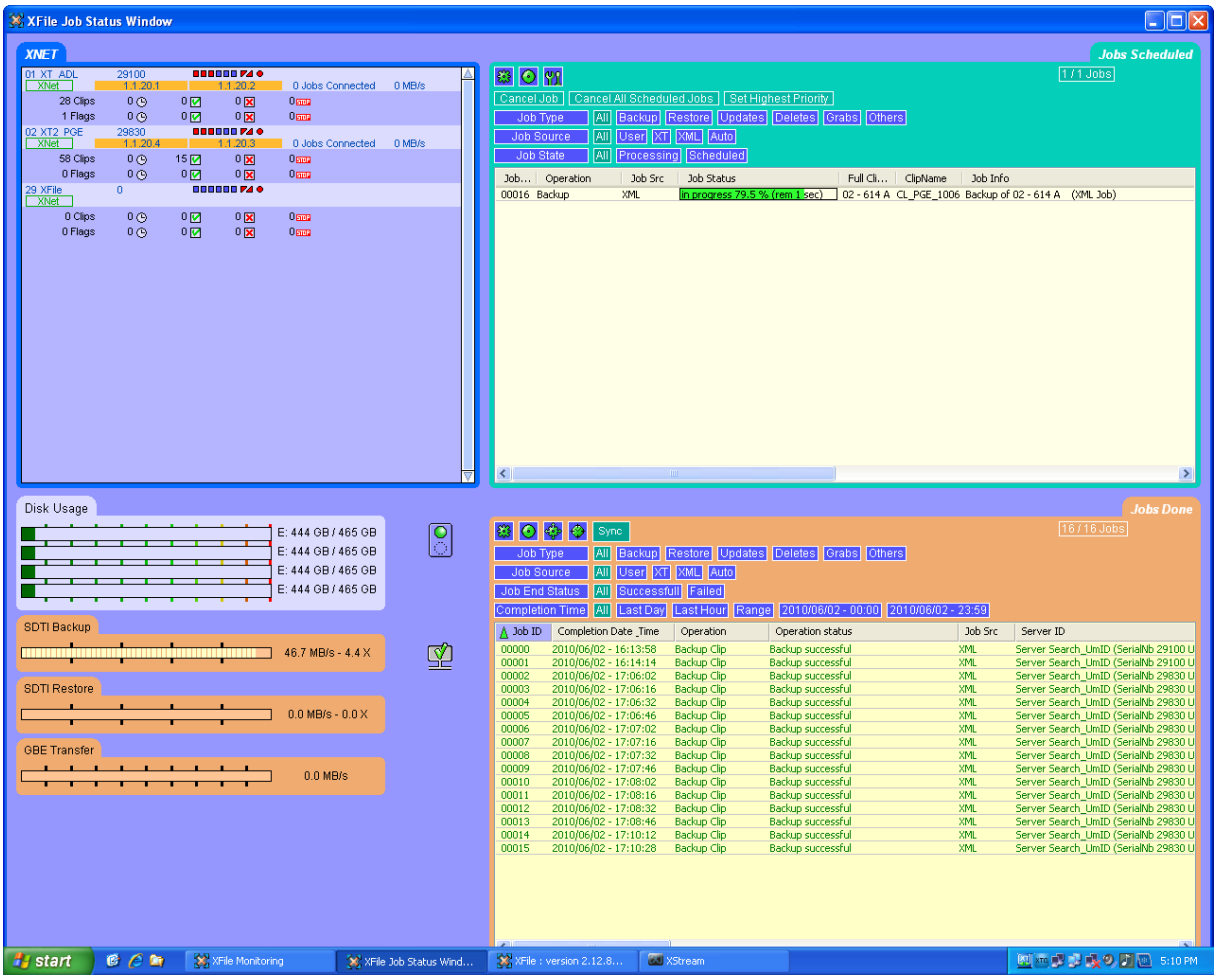
3.13 Job Status

3.13.1 Purpose

The Job Status window gives information on the transfer status of jobs between XFile and the servers connected to it either in a XNet only or GBE only mode or in a combined mode GBE +XNet, as configured through the XFile System Config.

This only relates to XFile jobs, not to XStream jobs.

3.13.2 XFile Job Status Window



The Job Status window is divided into four main areas.

XNet Area

This area displays the number of clips already saved to XFile for each system connected to the XNet and/or to the Gigabit network.

The first line displays the following information.

User Interface Element	Meaning
04 XT4 M10	Server identification : UserNumber and UserName.
29090	Server serial Number.
	Current configuration of the channels.

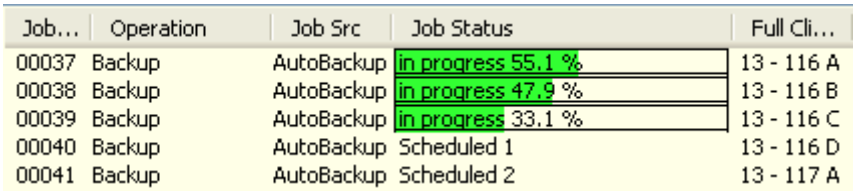
The second line displays the following information.

User Interface Element	Meaning
XNet XNet	Gives information on the hybrid mode configured: A green label indicates that transfers can be performed through an SDTI connection, i.e. an EVS video server and an XFile are connected to the XNet and SDTI transfers are allowed through the XFile Config System window. Refer to section 3.1.2 ‘Transfer Mode’ on page 9. A red label indicates that the GBE Only mode is used or that the EVS video server is disconnected.
	IP addresses for the two HCTX ports of a server.
172.22.51.10	A green label indicates that the IP address can be pinged and that it is reachable in jumbo frame (Full availability)
172.22.51.8	A light orange label indicates that the IP address can be pinged but that it is not reachable in jumbo frame (Partial availability).
192.168.12.10	A pink label indicates that the IP address is within a range of compatible addresses but that it is not available and cannot be pinged.
192.168.10.154	A red label indicates that the IP address is not within a range of compatible addresses.
3 Jobs Connected 33 MB/s	Number of connections currently opened and used.

In GBE mode, six jobs can be processed simultaneously.

Jobs Scheduled Area

This area displays all the jobs waiting in the queue and all the jobs in progress with progress bar and percentage.



Job...	Operation	Job Src	Job Status	Full Cli...
00037	Backup	AutoBackup	in progress 55.1 %	13 - 116 A
00038	Backup	AutoBackup	in progress 47.9 %	13 - 116 B
00039	Backup	AutoBackup	in progress 33.1 %	13 - 116 C
00040	Backup	AutoBackup	Scheduled 1	13 - 116 D
00041	Backup	AutoBackup	Scheduled 2	13 - 117 A

Cancelling Jobs

Select one/several items in the list and click **Cancel Job**, or click **Cancel All Scheduled Jobs** to delete all items in the list:

The selected items are deleted from the list and the related operations in progress are stopped or the scheduled operations are cancelled.

Note

Users cannot cancel Gigabit jobs while they are being executed.

Modifying the Priority of Backup and Restore Jobs

The order of the scheduled operations can be modified. This is only available for backup, restore and export clips. Select one job in the list and click:

The selected item is re-scheduled in the queue and its new status is “Scheduled 1”. The operation will begin as soon as the current job in progress is completed.

Filters

The upper part of the Job Scheduled area displays a list of buttons. These buttons give access to the different filters to be applied to the area.

Click on the button to display/hide the filter.

Job Type

Select the type of jobs you want to be displayed in the list:

- Backup: displays all the backup operations performed since the application has been started.
- Restore: displays all the restore operations performed in a complete session.
- Updates: displays all the update operations performed on archived files.
- Deletes: displays all the delete operations.
- Grabs: displays all the grab operations.
- Others

Job Source

Select the source of the jobs you want to be displayed in the list:

- User: displays all the jobs requested by a user.
- XT: displays all the jobs requested by an EVS video server, when auto-archive parameters have been selected.
- XML: displays the list of jobs requested via XML file by a source application (IPDirector, Automation system, …).
- Auto: displays the list of jobs requested when Autobackup mode is used.

Job State

Clicking the **Processing** or **Scheduled** button displays the list of processing jobs or the list of scheduled jobs.

Jobs Done Area

This area displays all the jobs done with their status:

- Successful with process duration and transfer rate
- Error with short error message.

Filters

The upper part of the Job Done area displays a list of buttons. These buttons give access to the different filters to be applied to the area.

Click on the button to display/hide the filter.

Job Type

Select the type of job you want to be displayed in the list:

- Backup: displays all the backup operations performed since the application has been started.
- Restore: displays all the restore operations performed in a complete session.
- Updates: displays all the update operations performed on archived files.
- Deletes: displays all the delete operations.
- Grabs: Displays all the grab operations.
- Others

Job Source

Select the source of the jobs you want to be displayed in the list:

- User: displays all the jobs requested by a user.
- XT: displays all the jobs requested by an EVS video server, when auto-archive parameters have been selected.
- XML: displays the list of jobs requested via XML file by a source application (IPDirector, Automation system, …).
- Auto: displays the list of jobs requested when Autobackup mode is used.

Job End Status

Clicking the **Successful** or **Failed** button displays the list of jobs successfully completed or the list of failed jobs.

Completion Time

Displays the list of jobs done during

- the last day: operation status related to the last 24 hours.
- the last hour: operation status related to the last hour.
- A period of time: a range of date & time can be defined to sort the jobs created during that period. Click on the 'Range' button. A dialog box will then open where you will have to enter a start date and time, as well as an end date and time.

Disk Usage and Transfer Rate Area

The Disk Usage area displays the remaining capacity and the capacity of local disks.

The Transfer rate area displays the transfer rates for backup and restore operations in progress.

3.14 Re-Scan Disks

The re-scanning of disks can be requested from the File menu in the Menu bar.

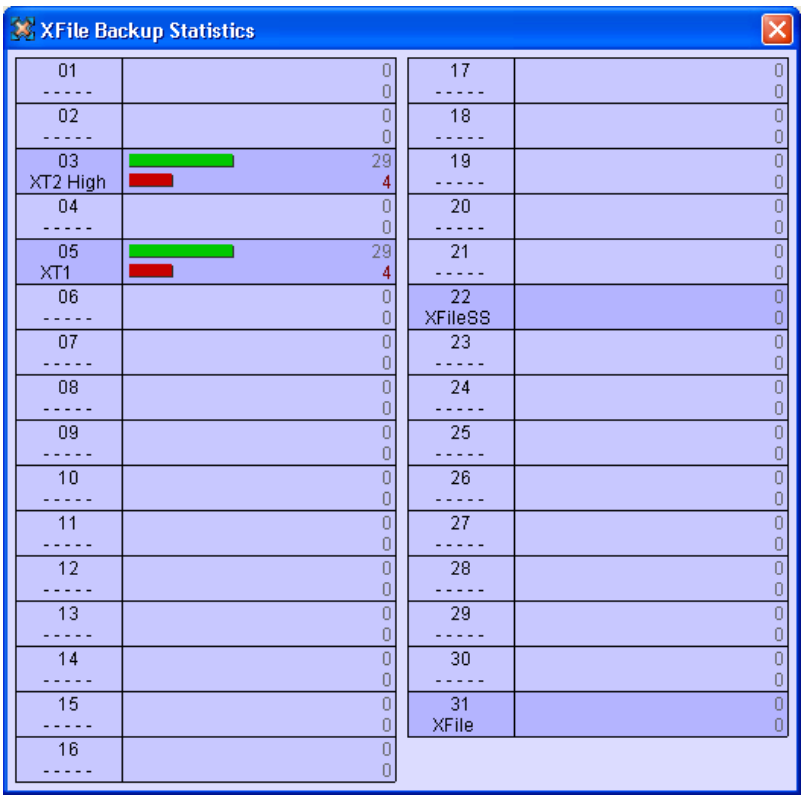
Two options are available: **Re-Scan Disks** and **Full Re-Scan Disks**. Both check the presence of files on disks and add them if missing.

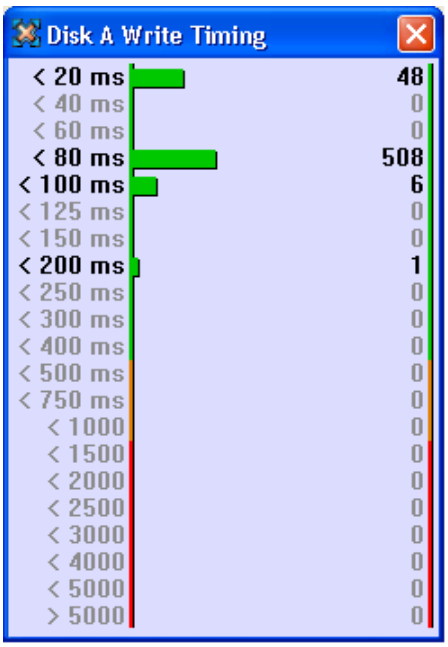
In addition, the **Full Re-Scan Disks** option reads the XML files and updates the metadata in case they have changed.

3.15 Statistics

Charts of statistics for restore and backup processes and for disk performances are available from the Statistics menu in the Menu bar.

Other information will be added to the statistics charts in a next version.

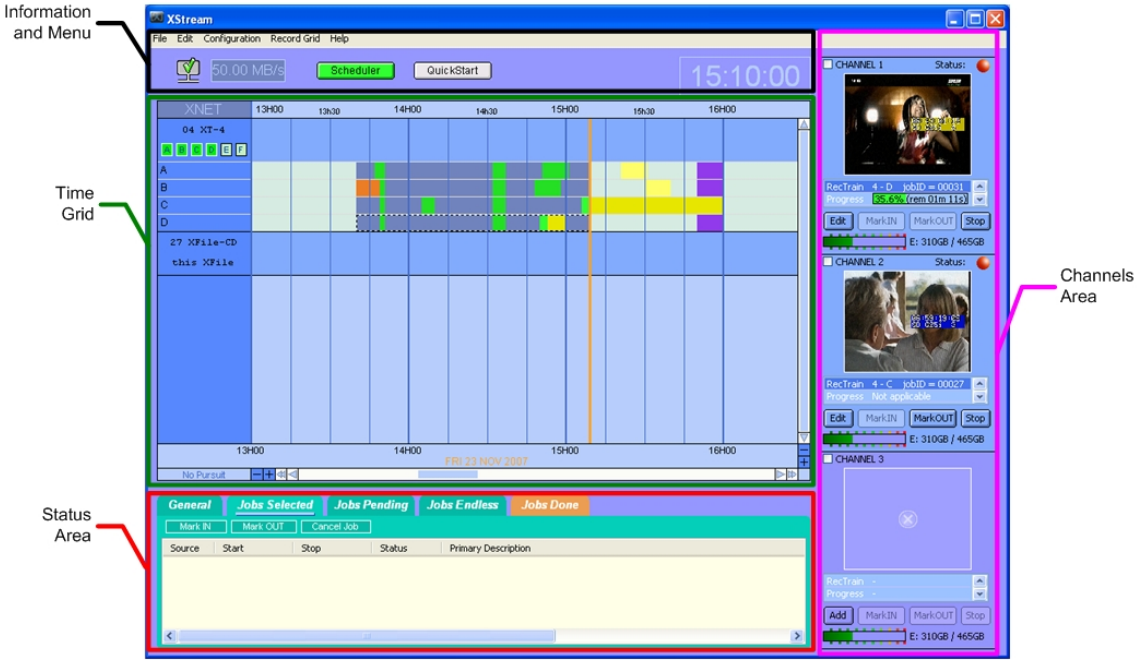




4. XStream

All operations of XStream are concentrated in a single screen.

The user interface is divided into 4 areas displayed on the screenshot below:



4.1 Scheduler and QuickStart Modes

The users can perform backup of record trains in XStream using two different modes: the **Scheduler** mode or the **QuickStart** mode. The users activate these modes by clicking the buttons at the top of the XStream main window:

Both modes cannot be active nor work at the same time, even on different EVS video servers.

4.1.1 Scheduler Mode

The Scheduler mode allows the user to schedule the following backup jobs on one or several EVS video servers at a time:

- backup of record train(s) scheduled to start at a given time before the nowline (i.e. the orange vertical line symbolizing the current position in the time grid).
- backup of record train(s) scheduled to start at a given time after the nowline.
- backup of record train(s) scheduled to start straight away, i.e. from the nowline onwards.
- backup of record train(s) scheduled to start at an unknown time (pending job)

In all cases, the duration for the backup can be specified.

For more information, refer to the section ‘Creating and Editing Jobs in Scheduler Mode’, on page 145.

4.1.2 QuickStart Mode

The QuickStart mode allows the user to launch a backup of one or several record train(s) straight away, i.e. from the nowline onwards. The backup is launched with endless duration.

For more information, refer to section ‘Creating Jobs in QuickStart Mode’, on page 150.

4.2 Information & Menu Area

The Information & Menu area displays the elements described below:

4.2.1 Scheduler and QuickStart Buttons

Click Scheduler to activate the Scheduler Mode. In this mode, the system acts automatically and backs up all files/clips according to the jobs defined via the Edit menu and shown in the time grid.

Click QuickStart to activate the QuickStart mode. You can access this mode by clicking the blue bullet next to the EVS video server name. In this mode, you can start and stop manually the backup of one or several trains recorded on one or several EVS video server(s) without having to create a job.

The background color of the **Scheduler** button or **QuickStart** button informs on the status of the mode:

Button color	Meaning
Grey	Inactive status
Green	Active status
Red	Recording status

4.2.2 Network Status

The icon displayed in the upper side of the screen notices the current status of XNet:

	Connection to XNet is successfully done
	XStream is connecting
	The video parameters are not correct. Please check the Network parameters into the System configuration window
	Connection to XNet failed
	Local hardware failure has been detected

4.2.3 Transfer Rate

The counter displays the current transfer rate. An average of bit-rate for all operations is done in real-time.

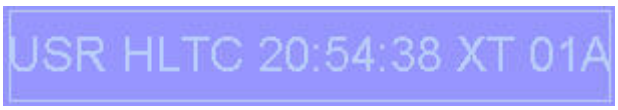
4.2.4 Time

The current time is displayed on the top right of the screen. As you can select which time information you will work with in the time grid, the time display depends on this selection. You can select the time display to be used in the time grid in the **Record Grid > Display Mode** menu.

T/C Primary: the time displayed is either the LTC or user-defined timecode type that is displayed at the bottom the VGA and is used to work with the video material stored on a given recorder.

LTC:

User T/C: the time displayed is the user time code of the first camera available on the first EVS video server displayed in the grid. This time code is defined by the user on the EVS video server.



PC time: the current time on the XStream workstation will be displayed (not the XNet time).

XT Time Code: the time displayed is the **LTC time on the first available camera of the first EVS video server displayed in the grid**. The EVS video server name and camera name are specified with the time information.

4.3 Time Grid

4.3.1 Information Displayed in the Time Grid

Different color codes are used in the time grid to easily distinguish the various job types. The color codes are the same in the Scheduler mode and in the QuickStart mode.

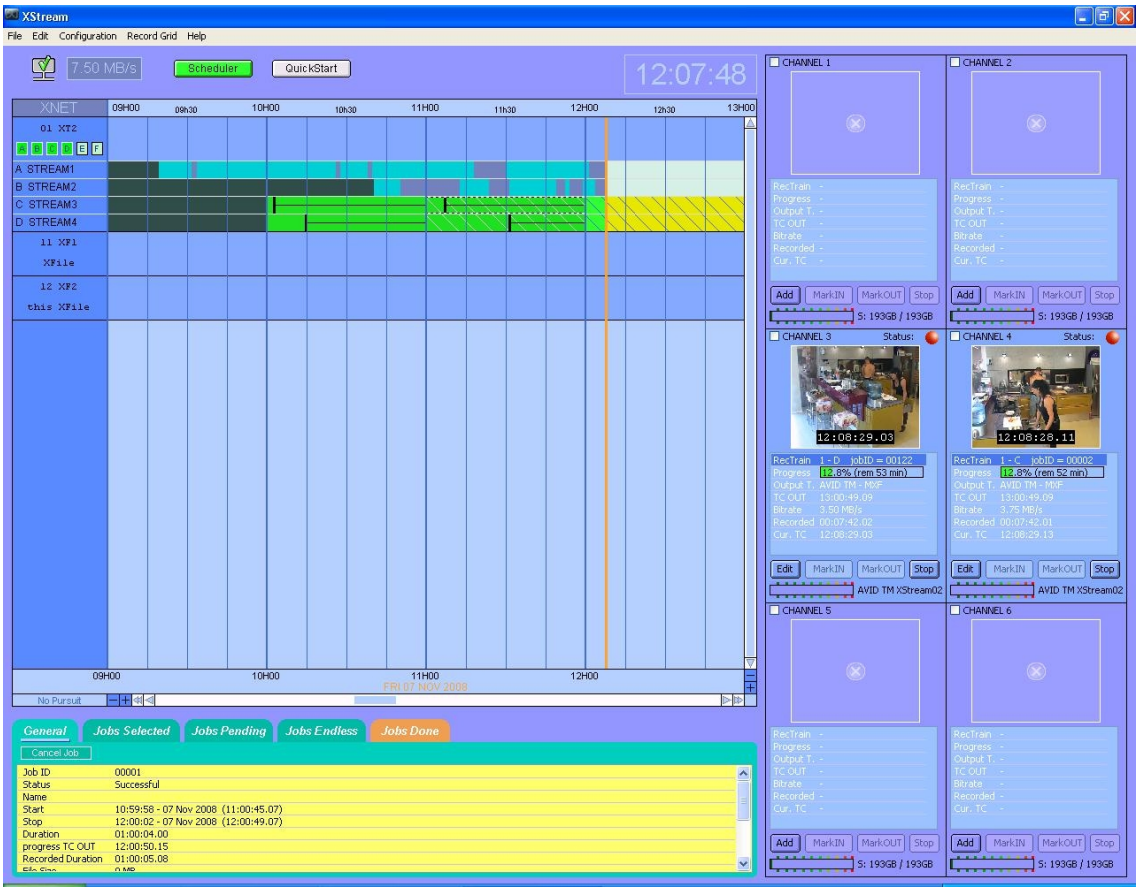
The following table describes the various job types with the color associated to each job type:

Background color		Meaning
Yellow		Job scheduled
Gold (darker yellow)		Job in progress (still to be backed up)
Lime (bright green)		Job in progress (already backed up)
Lime green (darker green)		Job ended
Orange		Job failed
Purple		Job pending

When horizontal and/or vertical black lines are present within a job, it means that a timecode jump has been detected. Right-clicking on the small vertical line will display the TC value.

A job with thick hatching from left to right corresponds to an XML job.

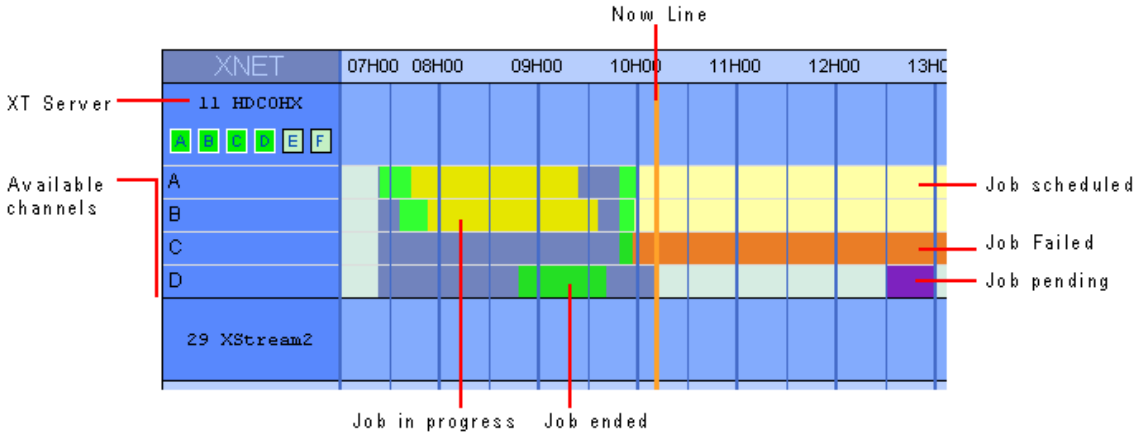
A job with thin hatching from right to left corresponds to the selected job.



The following sections provide screenshots to show which types of jobs can be found in the various modes.

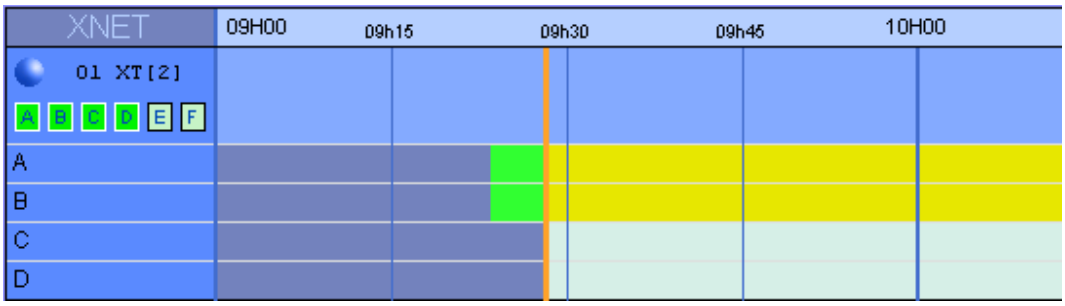
Scheduler Mode

In Scheduler mode, the time grid can display the following information:



QuickStart Mode

When a job is launched in the QuickStart mode, the time grid will display it as an endless job in progress from the nowline onwards. The other possible status in QuickStart mode is ‘failed jobs’.



4.3.2 Time Display in the Time Grid

Time Display Modes

From version 2.00, it is possible to specify which time mode has to be used in the XStream time grid. This time display is set up via the menu **Record Grid > Display Mode** (See also the setting ‘Display Mode’, on page 134).

The time information can be displayed in one of the following modes in the XStream time grid:

Display Mode	Description
T/C Primary	Timecode (LTC or user-defined timecode type) that is displayed at the bottom the VGA and is used to work with the video material stored on a given recorder. The Primary TC is defined for each recorder on page 1 of the setup configuration in Multicam.
LTC	Longitudinal time code (LTC) is a timing signal that is part of an audio tape recording. It is recorded on a track that runs lengthwise along the tape, which is why it is called longitudinal. It can only be read if the tape is playing.
User T/C	User time code of the first camera available on the first EVS video server displayed in the grid. This time code is defined by the user on the EVS video server.
PC Time	Date/Time of the XStream workstation. This mode is the default value with XFile version 1.14.
XT Time Code	LTC time code of the first camera available on the first EVS video server displayed in the grid. This mode is the default value on XFile version 2.00.

Note

When time code jumps occur in the recorded train, the time code jumps will be visible in the EVS server time code display, not in the PC time display.

When backup jobs are scheduled with a start and stop time in EVS server time code display, they will only be visible in PC time when they start.

Frame Accuracy Depending on the Display Mode

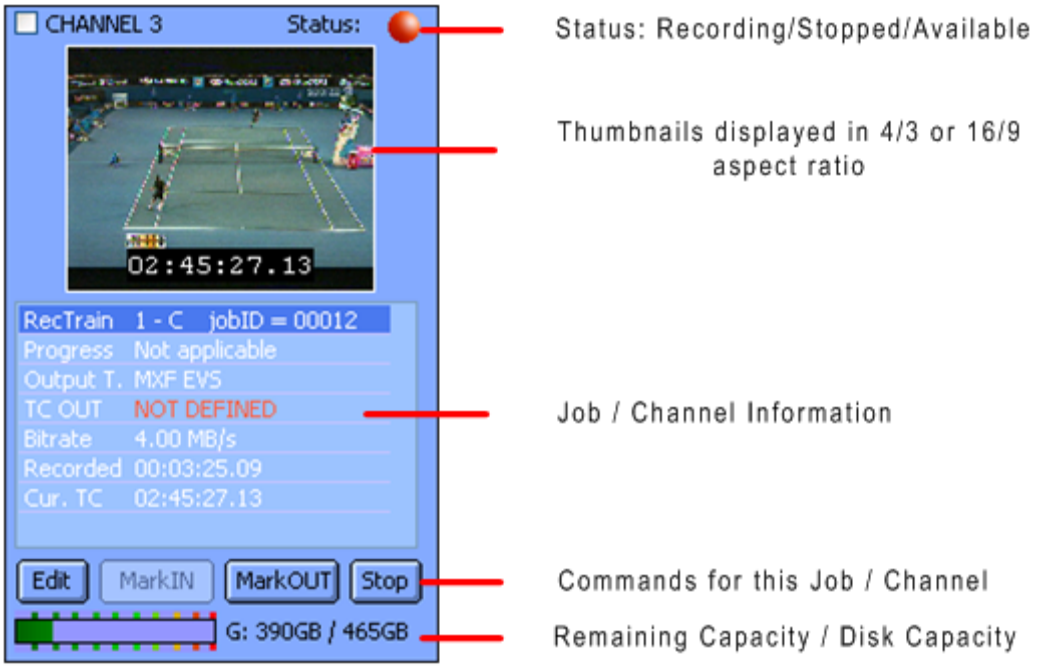
The video is frame accurate in some display modes, but not in all of them. The application will ensure frame accuracy in the following cases:

- QuickStart mode
- Scheduler mode with EVS server time code display

When using the Scheduler mode in PC time display, the frame accuracy cannot be granted when a job is defined on more than several cameras at a time.

4.4 Channels Area

This area is divided into 6 channel fields which display the same commands/information:



4.5 Status Area

The different operations are divided into different tabs.

4.5.1 Jobs Done Tab

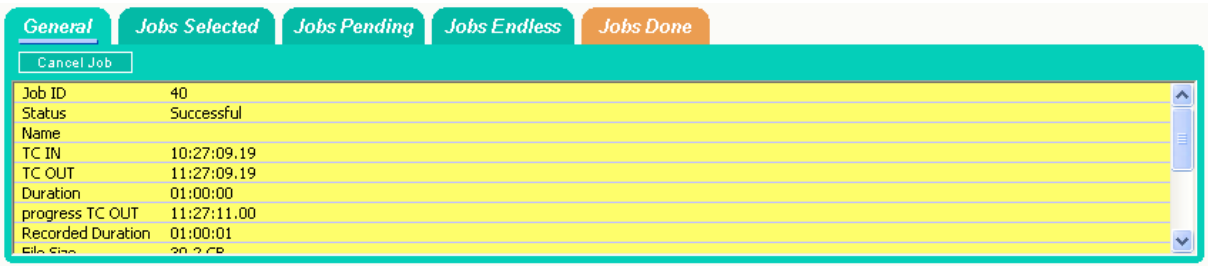
In JOBS DONE use these filters to refine the selection:

Filter Label	Description
View All	Displays all statuses since the startup of the system.
View Last Hour	Displays the operation status related to the last hour.
View Last Day	Displays the operation status related to the last 24 hours.
Hide Successful	Brings out clearly the various errors occurring during a complete session.

In JOBS DONE, the following commands are available for:

Command	Description
Retry	Select a job failed in the list and click the **Retry** button to retry the process.
Cancel Job	Select one/several items in the list and click **Cancel job** to delete all the selected items in the list.
Clean All	Click this button to clear all items in the list.

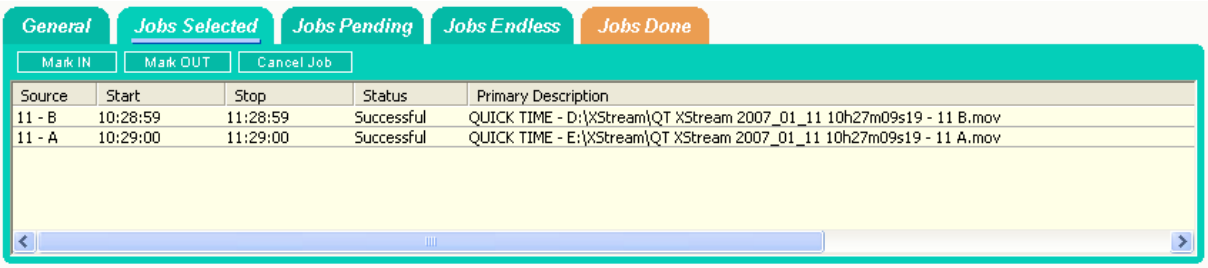
4.5.2 General Tab



The GENERAL tab displays the information of the selected job in the grid or the selected record train.

Cancel Job: delete the selected job displayed in this field.

4.5.3 Other Tabs



The JOBS SELECTED, JOBS PENDING and JOBS ENDLESS tabs give access to **Mark IN**, **Mark OUT** and **Cancel Job** commands which affect the items displayed in the lists.

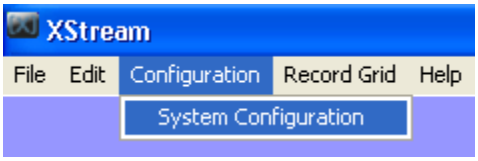
Several items can be selected at a time, so several jobs can be started or stopped or cancelled simultaneously.

Note

When the users apply a command without selecting any job, the command will be executed on all the jobs displayed in the tab.

4.6 System Configuration

Modify the system configuration by selecting **Configuration > System Configuration** from the top menu:

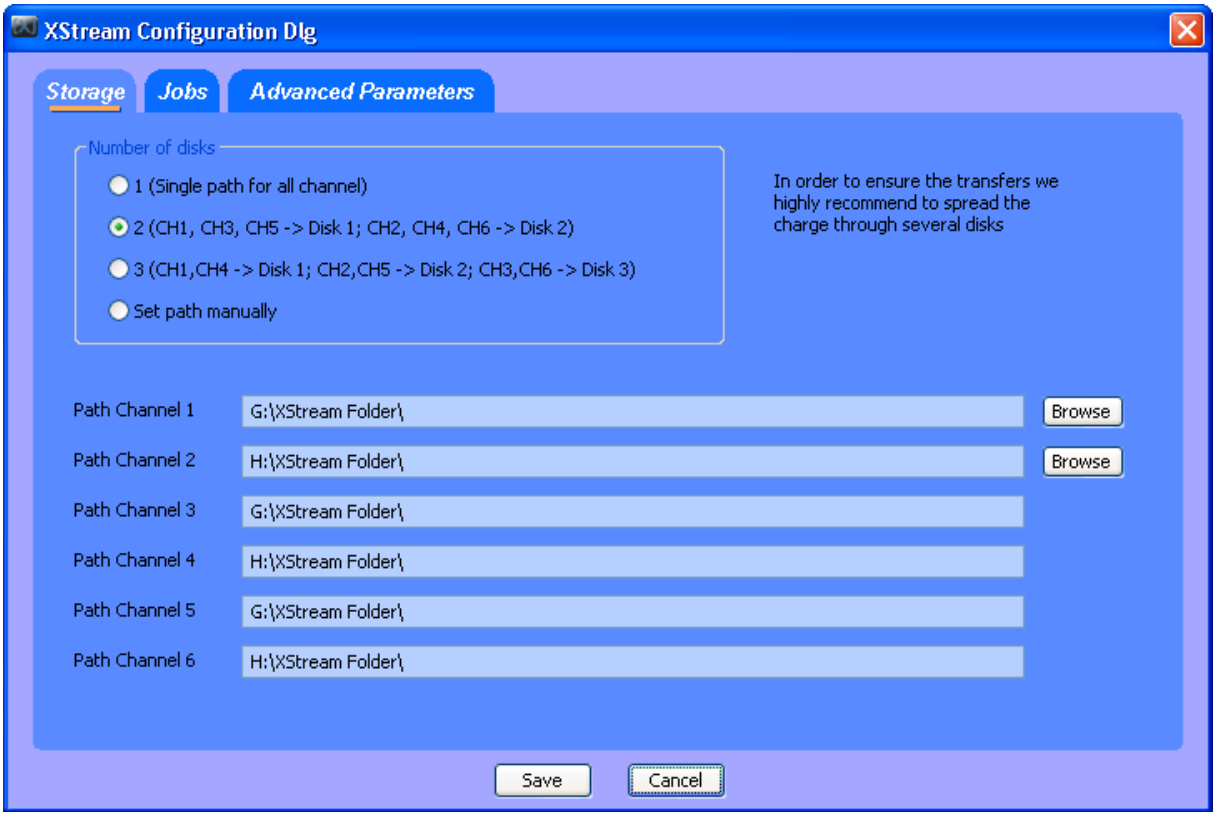


During operations, this window will be displayed in read-only mode for information.

4.6.1 Storage Tab

The settings specified in the Storage tab are applicable to the Scheduler and QuickStart modes.

These are the default settings for the QuickStart mode. Before launching a QuickStart job, you can define other settings in the Storage tab of the QuickStart Setup window. They will have priority on these default settings.



Number of Disks

Specifies the number of disks assigned to the channels to backup.

Note

In order to ensure good performances in data transfers we highly recommend balancing the load onto several disks.

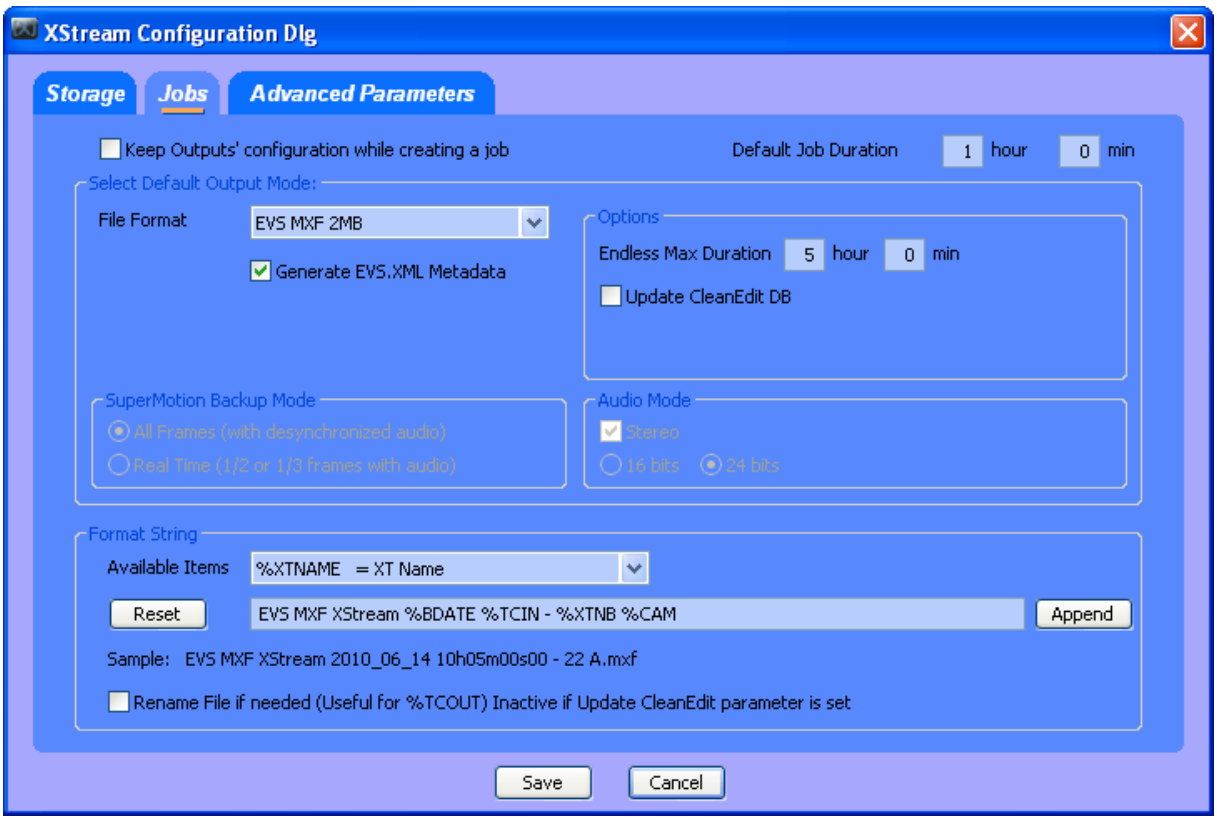
Path Channels

Those fields specify the paths where the files will be saved for each channel.

4.6.2 Jobs Tab

The settings specified in the Jobs tab are applicable to the Scheduler and QuickStart modes, except the Default Job Duration option which is only relevant in the Scheduler mode.

These are the default settings for the QuickStart mode. Before launching a QuickStart job, you can define other settings in the Output tab of the QuickStart Setup window. Refer to section 4.10.3 ‘Setup in QuickStart Mode’ on page 154. They will have priority on these default settings, provided that the option **Keep Outputs’ Configuration while Creating a Job** has been selected in the Jobs tab.



Default Job Duration

(default: 1 hour)

Select Default Output Mode

Output File Format

Seven different output formats are available to save the files. Depending on the format selected, various parameters fields will be displayed in the **Option** area.

File Format	Specific Information
EVS MXF	The user can add the output file to the CleanEdit database by selecting the **Upd. CleanEdit** check box (i.e. Update CleanEdit). The V/A file can be accessed in CleanEdit before the completion of the recording.
MXF OP1a (IMX Only)	The user can add the output file to the CleanEdit database by selecting the **Upd. CleanEdit** check box (i.e. Update CleanEdit). The V/A file can be accessed in CleanEdit before the completion of the recording.
Quick Time Movie	The user can optimize the FCP by selecting the **FCP Opt.** check box (i.e. FCP Optimization).
Quick Time Reference	The user can optimize the FCP by selecting the **FCP Opt.** check box (i.e. FCP Optimization).
Transfer to Avid Ingest Device	With this format, you need to specify an Avid Media Type in the **Default Avid Ingest Device Media Format** group box. See section 'Default Avid Ingest Device Media Format', on page 129.
Avid MXF OPAtom	None.
Avid OP1a (Std SMPTE)	The user can add the output file to the CleanEdit database by selecting the **Upd. CleanEdit** check box (i.e. Update CleanEdit). The V/A file can be accessed in CleanEdit before the completion of the recording.

Always Generate EVS.XML

With the EVS MXF file format, the metadata is included in the header of MXF files. While with all the other formats, no metadata is delivered with the output file.

With all the file formats, selecting the option **Always Generate EVS.XML** will generate an EVS.XML file for each backup file created in the XStream module. This is not available with the Transfer to Avid Ingest Device option. The EVS.XML file contains the metadata on the backup file.

Options

Endless Max Duration

When selecting any output format, you need to specify a maximum duration for the backup file in the **Endless Max. Duration** field.

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

Default Avid Ingest Device Media Format

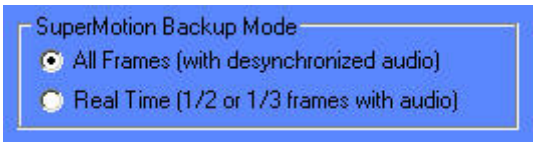
The record trains backed up can be automatically transferred to the AVID Ingest Device for conversion process to AVID file format. The settings allowing the automatic transfer of backup files to Avid Ingest Device are defined in the Export tab of the XFile Config Session window.

In the **Default Avid Ingest Device Media Format** group box, you need to select the media format in which the Avid Ingest Device will convert the backup file from XStream.

Select the radio button corresponding to the requested format:

- OMF
- MXF/AAF

Super Motion Backup Mode



Super Slow Motion (SSLM) clips can be obtained by generating a single flow from 2 or 3 cameras. So, 2 or 3 pictures have the same timecode and, when a SSLM clip is played with all frames in the Edit Clip module, the duration is twice (with 2 cameras) or three times longer and audio is no more synchronized. A clip played at 100% seems to be played at 50 or 33%.

The **SuperMotion Backup Mode > All Frames with Desynchronized Audio** option enables the backup of all the frames of the SSLM clips with the audio. In this case, timecode reference is not consistent.

The **SuperMotion Backup Mode > Ream Time (1/2 or 1/3 frames with audio)** option backs up 1 frame over 2 or 3 (depending on the Super Motion Rec mode) and keeps the audio. Audio and timecode are consistent.

These options are available with the following file formats: QT mov, QT ref and Avid Ingest Device.

Audio Mode

Selecting the **Stereo** option results in grouping server's mono channels in stereo channels.

24 bits samples can be down converted to 16 bits by selecting the **16 bits** option or kept as it is by selecting the **24 bits** option.

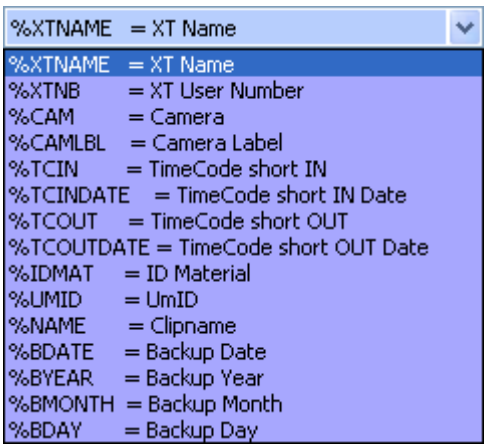
Format String

An automatic file name can be given to each file format and can be different for each one.

The default MXF file is **EVS MXF XSTREAM** <backup date><time code shortIN> - <XT number> <Camera>.mxf.

The filename is user-defined and can be modified by typing a generic term (i.e.: WC2006_Match03…) and/or by adding one or many available items (See screenshot below).

The user can reset the default filename format string by clicking the **RESET** button.



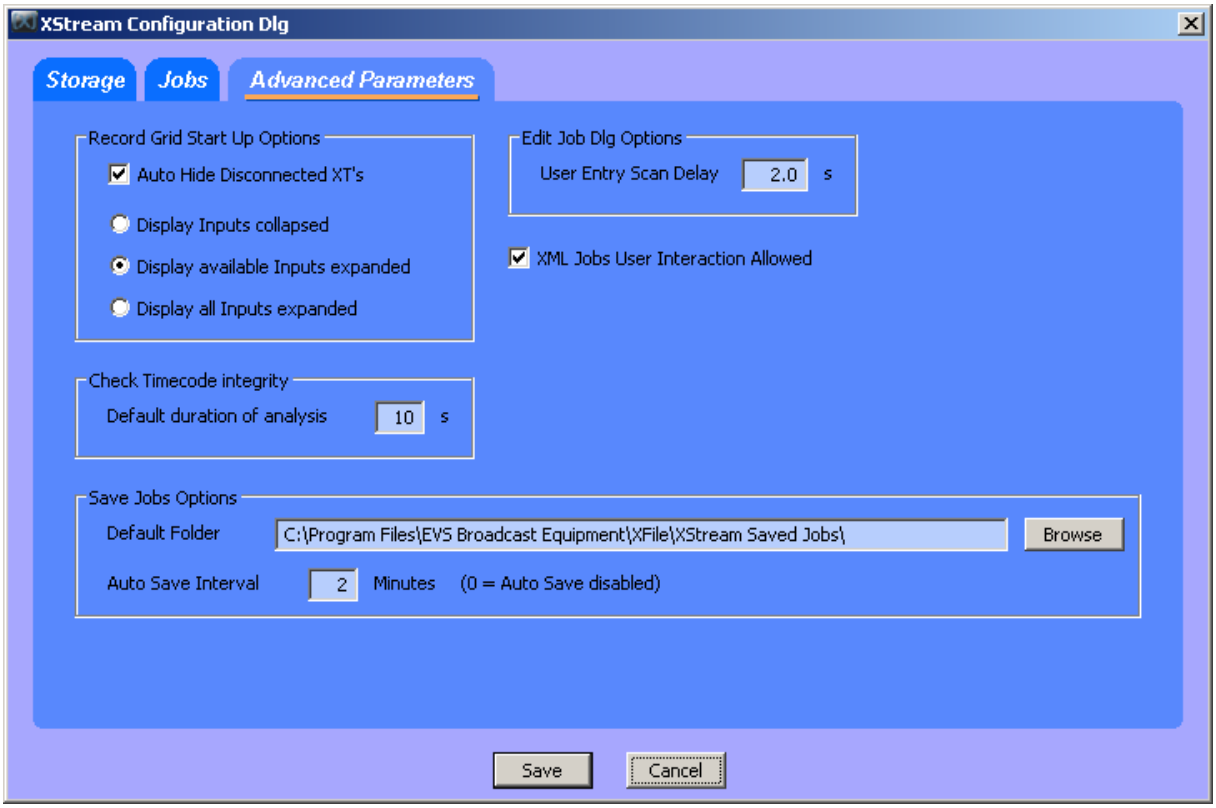
How to Modify the Default Format String for the Filename

A default format string is defined for each output file format. This string is used for assigning a file name to the backup file.

To modify this default format string, proceed as follows:

1. Select the format for which the filename string should be modified.
2. In the **Filename** field, delete the part of the string you do not want to keep in the filename, if any.
3. To add a generic text in the **Filename** string, simply type the text in the field.
4. To add an information type specified in the **Available Items** drop-down list, select the item in the drop-down list.
5. Click the **Append** button to add the selected item at the end of the Filename string.
6. Reposition the available item as desired with the cut (**CTRL-C**) and paste (**CTRL-V**) commands.
7. Repeat step 4 to 6 for any new information type you want to add in the **Filename** string.

4.6.3 Advanced Parameters Tab



Record Grid Start Up Options

The settings of the record grid are pre-defined in the Advanced Parameters window but they can be modified during operations:

Field / Button	Description
Auto Hide Disconnected XTs	When this option is selected, only the EVS video servers connected to the XNet are displayed in the time grid when the application is started.
Display Input Options	These options allow changing the display in the time grid at startup according to the selected value: • Display Inputs collapsed • Display available Inputs expanded • Display all Inputs expanded The changes will only be reflected the next time you start the application.

Edit Job Dialog Options

This option specifies the time after which the values entered in a text field (i.e. time code) are validated. The default value is 2.0 sec and it can be modified.

XML Jobs User Interaction Allowed

When selected, the **XML Jobs User Interaction Allowed** option allows the user to perform actions (i.e. cancel job, reschedule job, etc.) on the XML jobs sent to XStream.

By default, this option is not active in order to prevent the users from interfering with XML jobs requested by external applications.

Check Timecode Integrity

Every 5 minutes, the application automatically checks the time code integrity in the record trains that are being backed up. This means that it checks whether time code jumps have occurred.

The **Default Duration of Analysis** option specifies how long this TC integrity analysis should last. The application needs on average 1 sec to identify 1 time code jump. The default value is set to 10 sec. For more information on the Check Timecode Integrity function, refer to section 4.8.6 ‘Check Timecode Integrity’, on page 144.

Save Jobs Options

The information on the running, scheduled or pending jobs in XStream can be saved automatically at regular intervals into an XML file. This information can also be saved manually via the **Save Jobs** command in the Record Grid menu (See the section 'Save Jobs', on page 135).

These XML files can be loaded in a later session. The jobs saved in the XML file will be loaded in XStream as scheduled jobs.

Default Folder

This parameter specifies the folder where the XML files that contain the information on the XStream jobs are saved by default.

Auto Save Interval

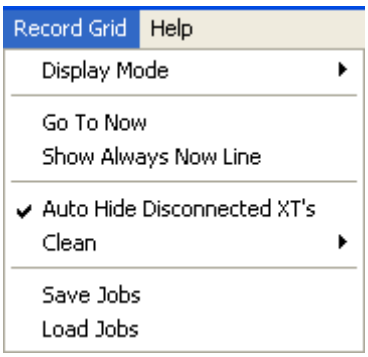
This parameter specifies how often the XML file will be saved to the default folder. When it is set to '0', the Autosave option is not active.

Note

The jobs created via XML files sent by 3rd party applications or the jobs with CleanEdit update that have already been started will not be included in the 'Save Jobs' XML file.

4.7 Record Grid Menu

The Record Grid menu contains several options or commands related to the information displayed on the record grid, i.e. the nowline, the scheduled jobs, the EVS server display, the time display, etc.



Display Mode

The display mode specifies which time information is used in the XStream time grid.

The following display modes are available:

- T/C Primary
- LTC
- User T/C
- PC time
- XT time code

For more information on the possible time display modes, refer to section 4.3.2 ‘Time Display in the Time Grid’, on page 122.

Go To Now

Selecting this option from the Record Grid menu will position the nowline at the beginning of the time grid display.

Always Show Now Line

Selecting this option from the Record Grid menu will always display the nowline in the middle of the time grid.

Auto Hide Disconnected XTs

Selecting this option from the Record Grid menu will directly hide the disconnected EVS video servers.

Clean Options

The **Clean** commands from the Record Grid menu allow the users to clean jobs from the time grid. Only jobs which have occurred in the past and are completely finished will be cleaned.

Four clean options are available depending on the job status:

- Clean Successful
- Clean Failed
- Clean Stopped
- Clean All

Save Jobs

The **Save Jobs** command from the Record Grid menu allows saving manually the information on the running, scheduled and pending XStream jobs into an XML file. An automatic save can also be configured in the XStream Configuration window (see the section Save Jobs Options, on page 133).

Folder Name

The XML file that contains the job information, either generated manually or automatically, is saved in the default folder specified in the XStream Configuration window, Advanced Parameters tab, Save Jobs group box. For more information, see the section 'Save Jobs Options', on page 133.

When saving the jobs manually, the user can modify this default folder. In case of automatic save, the application will always store the generated XML file in the default folder

XML File Name

When the job information is saved manually to an XML file, the files created are named according to the following pattern: `XStreamJobs <file creation date> <file creation time>.xml`.

When the job information is saved automatically to an XML file, the file created has the following name: `last_auto_save_Jobs_file.xml`.

When the job information is saved automatically in an XML file when the user exits the application, the file created has the following name: `last_exiting_XFile-Jobs_file.xml`.

Load Jobs

The **Load Jobs** command from the Record Grid menu makes it possible to load an XML file previously created with the information on the running, scheduled or pending jobs.

When the XML file is loaded, the jobs saved in the file are loaded in XStream as scheduled jobs, even if they have already been executed in an earlier session.

How to Load Jobs from an XML File

To load the job information from an XML file, proceed as follows:

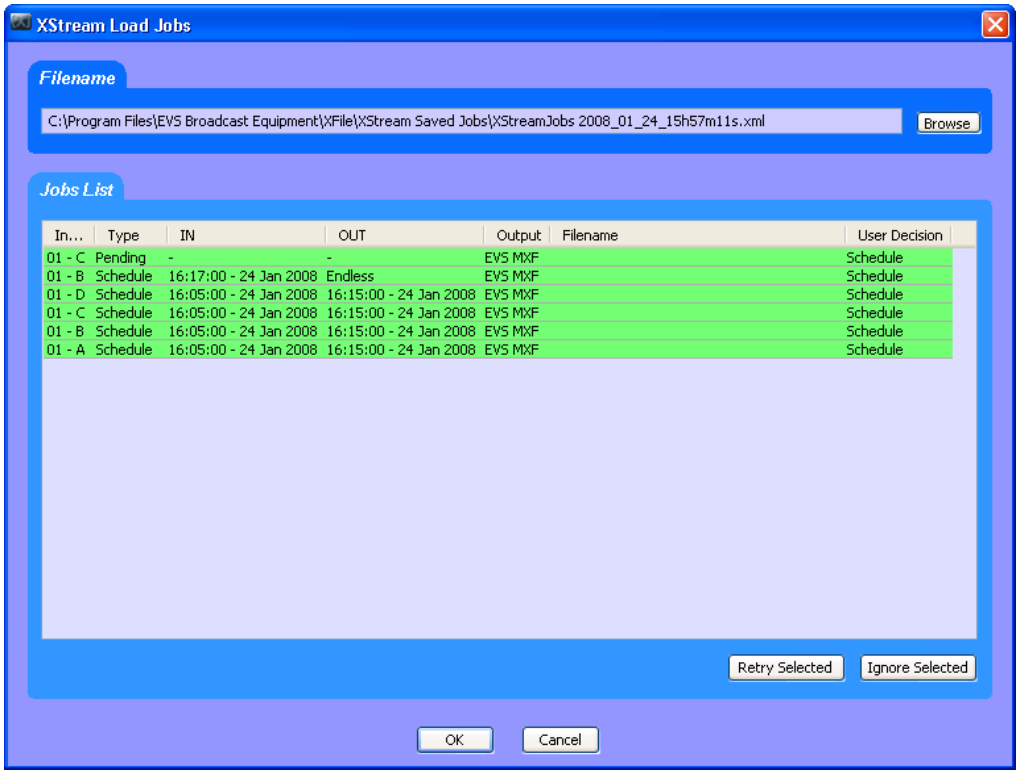
1. Select the **Load Jobs** command from the Record Grid menu.

   The XStream Load Jobs window opens:

2. In the Filename area, click the **Browse** button and select the XML file from the window.

3. Click the **Open** button.

   The jobs from the XML file are displayed in the Jobs List area in the XStream Load Jobs window. The job records have different colors according to their status. For more information, see the section ‘Color Codes in the Jobs List’, on page 138.



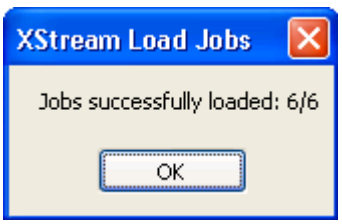
4. If you want some of the displayed jobs not to be loaded, select them with **CTRL** + click and select the **Ignore Selected** button.

   The background color for these records becomes light blue and the value ‘Ignore’ is displayed in the User Decision column.

5. If you want to retry the records highlighted in orange or in red, select them with **CTRL** + click and select the **Retry Selected** button.

6. Once you have selected all the jobs you want to load, click the **OK** button.

The selected jobs are loaded into the XStream time grid as scheduled jobs. A message similar to the following one informs the user about how many jobs have been successfully loaded:



Note

When the user loads a job that had already been started when the 'Save Jobs' XML file was created, the job is loaded as scheduled. It will be executed again. A new backup file is generated with the same name, followed by an incremented number, for example:

```
EVS MXF XStream 2008_01_25 22h30m50s16 - 01 B (1).mxf
```

Color Codes in the Jobs List

The jobs displayed as records in the Jobs List of the XStream Load Jobs window are highlighted with different colors depending on whether they will or would be loaded or not into the XStream.

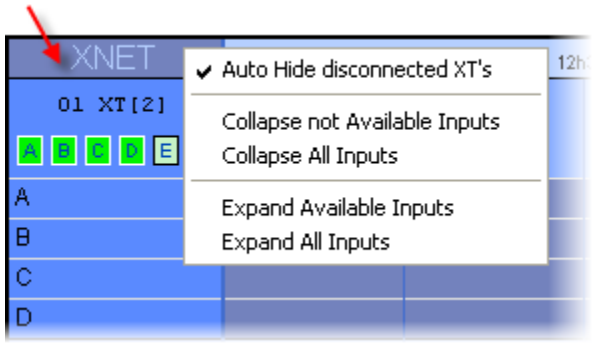
The following table explains the meaning of the different color codes:

Color	Meaning
Green	Selected jobs which will be loaded as scheduled job in the XStream time grid. The value in the User Decision column is set to 'Schedule'.
Dark Blue	Job selected in the Jobs List area. The **Retry Selected** and **Ignore Selected** buttons will only apply to the jobs selected in the Jobs List.
Light Blue	Jobs which will not be loaded in the XStream time grid as the user has asked them to be ignored. The value in the **User Decision** column is set to 'Ignore'.
Orange	Jobs which could be rejected by the scheduler, for example jobs based on a time code or presence of time code jumps in the train.
Input on red background	Jobs which will be rejected by the scheduler because the EVS video server is no longer connected to the XNet network.
IN point on red background	Jobs which will be rejected by the scheduler because the job will be outside the record train.

4.8 Contextual Menu in the Scheduler

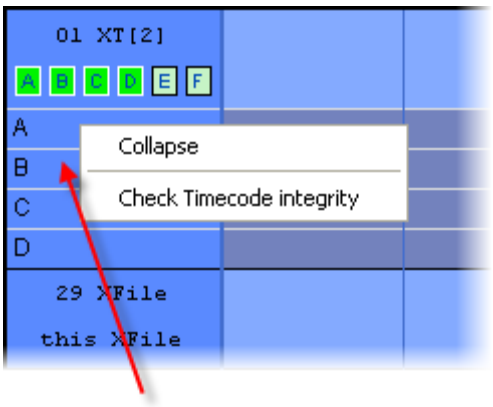
Different contextual menus are available from the time grid depending on where the right-click is performed:

4.8.1 Contextual Menu from the XNet Label



Command	Description
Auto-Hide Disconnected XTs	Select this option to hide or display the disconnected EVS video servers.
Collapse not Available Inputs	Select this option to hide the time grid for the cameras not available on the XNet network.
Collapse All Inputs	Select this option to hide the time grid for all cameras of the XNet network.
Expand Available Inputs	Select this option to show the time grid for the cameras available on the XNet network.
Expand All Inputs	Select this option to show the time grid for all cameras of the XNet network. If the **Auto-hide Disconnected XTs** option is active, the cameras on the disconnected EVS video servers will not be displayed.

4.8.2 Contextual Menu from the Camera Names Area

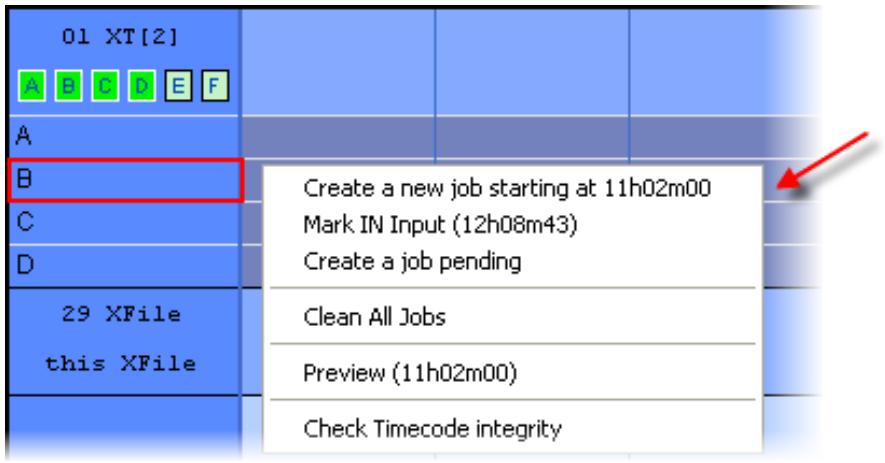


This contextual menu appears when you right click the mouse in the area where the camera names are displayed (see arrow on screenshot).

The following table describes shortly the menu commands:

Command	Description
Collapse	Select this option to hide the time grid for the camera on which you have right-clicked. Clicking a camera button A B C D E F will also hide or display the camera in the time grid.
Check Timecode Integrity	Select this option to check whether the record train on the cameras of the related EVS video server contains time code jumps. For more information on the Check Timecode Integrity function, refer to section 4.8.6 ‘Check Timecode Integrity’, on page 144.

4.8.3 Contextual Menu from the Grid of a Camera



This contextual menu is displayed when you right click the mouse in the grid of a given camera, before the nowline (see arrow on screenshot). The contextual menu after the nowline contains only some of these elements.

The commands available from this contextual menu will apply specifically to the related camera. In the above screenshot, the commands will apply to Cam B since the user right-clicks the time grid of the camera B.

The following table describes shortly the menu commands:

Command	Description
Create a new job starting at …	Select this option to create a new job starting at the given time on the related camera. The specified time depends on where you have right-clicked the time grid. The Add a New Job window opens for the user to specify additional job information.
Mark IN input	Select this option to create a new job starting at the nowline on the related camera. The Add a New Job window opens for the user to specify additional job information. By default, this is created as an endless job.
Create a job pending	Select this option to create a new pending job on the related camera.
Clean All Jobs	Select this option to clean all completed jobs from the time grid.
Preview	Select this option to open the XStream Browse dialog box in order to preview and browse in the backup file.
Check Timecode Integrity	Select this option to check whether the record train on the cameras of the related EVS video server contains time code jumps. For more information on the Check Timecode Integrity function, refer to section 4.8.6 ‘Check Timecode Integrity’, on page 144.

4.8.4 Contextual Menu from the Right of the Server Name

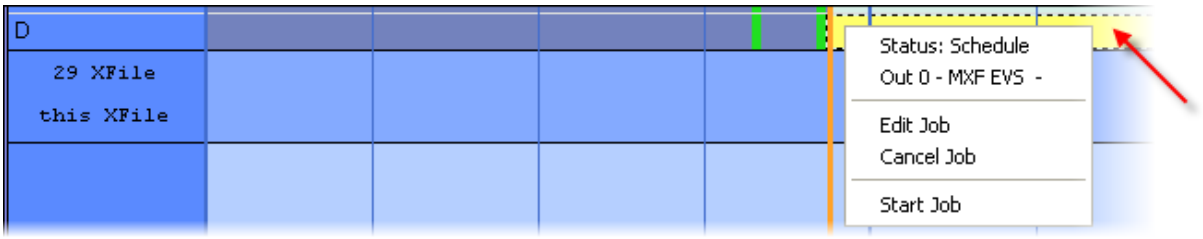
This contextual menu appears when you right click the mouse on the right of the server name and above the camera time grid (see arrow on screenshot).

The commands available from this contextual menu will apply to all cameras of the given EVS video server. In the screenshot above, the commands will apply to Cam A to D of the EVS server 01.

The following table describes shortly the menu commands:

Command	Description
Create a new job starting at …	Select this option to create a new job starting at the specified time on all the cameras of the related EVS video server. The Add a New Job window opens for the user to specify additional job information.
Mark IN XT	Select this option to create a new job starting at the nowline on all cameras of the related EVS video server. The Add a New Job window opens for the user to specify additional job information. By default, this is created as an endless job.
Mark OUT XT	Select this option to stop a record job in progress on the cameras of the related EVS video server.

4.8.5 Contextual Menu from A Job



This contextual menu appears when you right-click the mouse on a scheduled or running job (see arrow on screenshot). It can vary slightly depending on the job status.

The following table describes shortly the menu commands:

Command	Description
Status	This option shows the job status.
Out …	This option gives access to the Preview and Edit functions on the job.
Edit Job	This option opens the Edit Clip window for the given job.
Cancel Job	This option opens the Deleting a Job window to delete the given job.
Start Job	This option is displayed when the train includes the TC IN of a scheduled job. This option makes it possible to start the job when the scheduler is deactivated or to launch a job before the scheduler starts it.
Mark IN Job	This option is available with pending jobs. It allows the user to directly start the job.

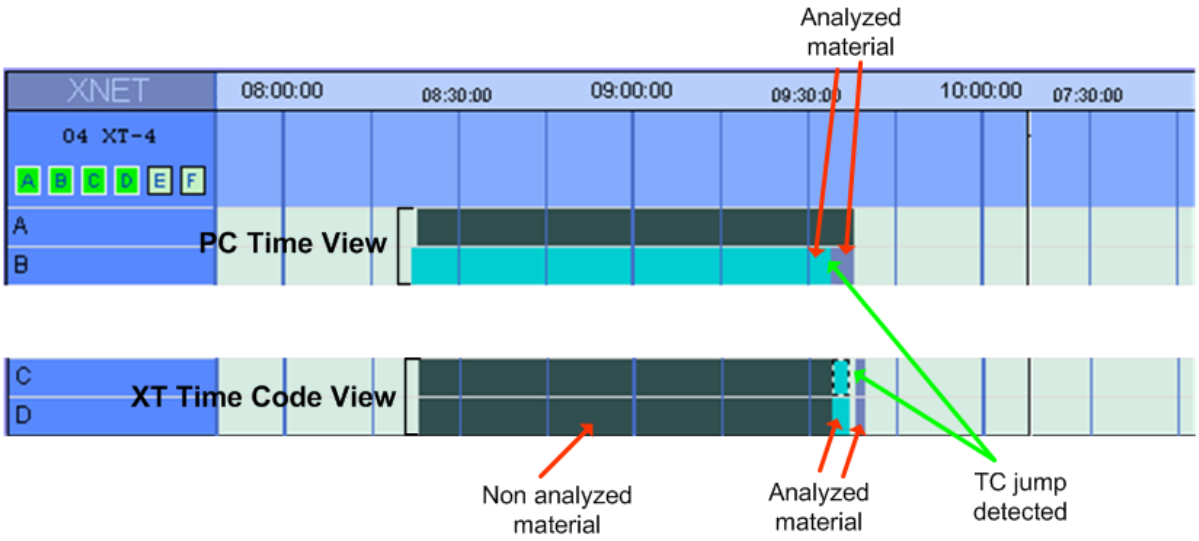
4.8.6 Check Timecode Integrity

Every 5 minutes, the application automatically checks the time code integrity, i.e. it checks whether time code jumps have occurred in the record trains of EVS video servers.

The user can also perform this check manually on a record train selected in the time grid.

In this case, the check starts from the head of the record train back towards the beginning of the record train. The integrity analysis lasts no longer than the time defined in the **Default Duration of Analysis** setting (see XStream System Configuration window, Advanced Parameters tab in the section 'Check Timecode Integrity', on page 132).

The screenshot below shows how a record train is displayed when a time code integrity analysis has detected a time code jump in the train. The screenshot shows both views: PC time view and XT Timecode view.



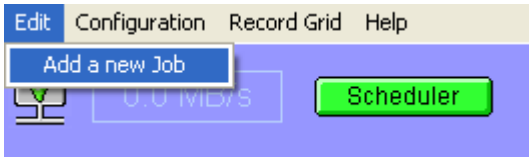
The color of the record train changes when a time code jump is detected.

The section of the record train in black has not been analyzed since the analysis is automatically stopped when the default duration specified in the setting 'Default Duration of Analysis' is reached.

4.9 Creating and Editing Jobs in Scheduler Mode

Create a new job in one of the following ways:

- by selecting **Edit** > **Add a New Job** from the top menu,

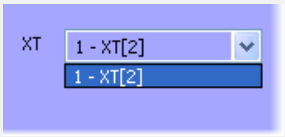
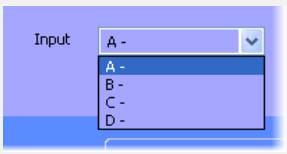


- by right-clicking in the time grid,
- by clicking the **Add** button in the Channels area.

The Add a Job Manually window, which is displayed below, appears to define the different parameters of the job. A very similar window is displayed each time the user edits the job.

4.9.1 General Information

The following fields displayed above the tabs provide general information on the job being created or edited:

Field	Description
Job ID	Identifier automatically assigned to the job when it is saved for the first time.
XT 	EVS video server from which the record train will be backed up. If the user adds a job via the **Edit** menu or the **Add** button in the Channels area, this field will be displayed as a drop-down list. All systems connected to XNet are displayed in the list. If the user adds a job via the Create a new job in the contextual menu of the time grid, the EVS server name will automatically be assigned based on where the user clicks the rime grid.
Input 	Record channel that will be backed up on the selected EVS video server. If the user adds a job via the **Edit** menu or the **Add** button in the Channels area, this field will be displayed as a drop-down list. All systems connected to XNet are displayed in the list. If the user adds a job via the Create a new job in the contextual menu of the time grid, the EVS server name will automatically be assigned based on where the user clicks the time grid.
XFile Clipname	Name of the clip/file to be created. **Example of Name:** 01G NYG DAL 01 = Week1 G = GAME NYG = New York Giants (HOME TEAM) DAL = Dallas Cowboys (AWAY TEAM)
Priority	Priority level to assign to the current job. The Scheduler will never stop a job defined with a high priority set in the **Priority** field, even if it detects that another job is being recorded slower than expected and if the whole bandwidth is necessary to make up for lost time on this job. In this case, the Scheduler will suspend the jobs having a normal priority, never the ones with a high priority.

4.9.2 IN/OUT Tab

IN/OUT

Defines the starting time of the clip to be archived.

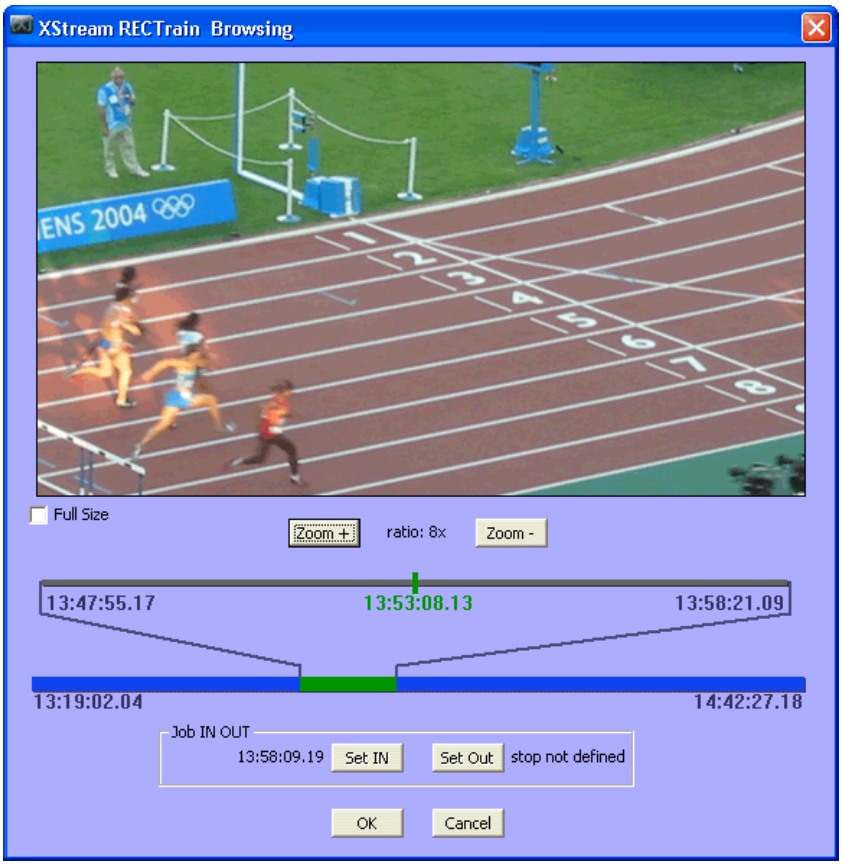
Duration

Defines the duration of the current clip if IN or OUT point is not set.

Browse

Allows you to locate the starting point by reviewing the video.

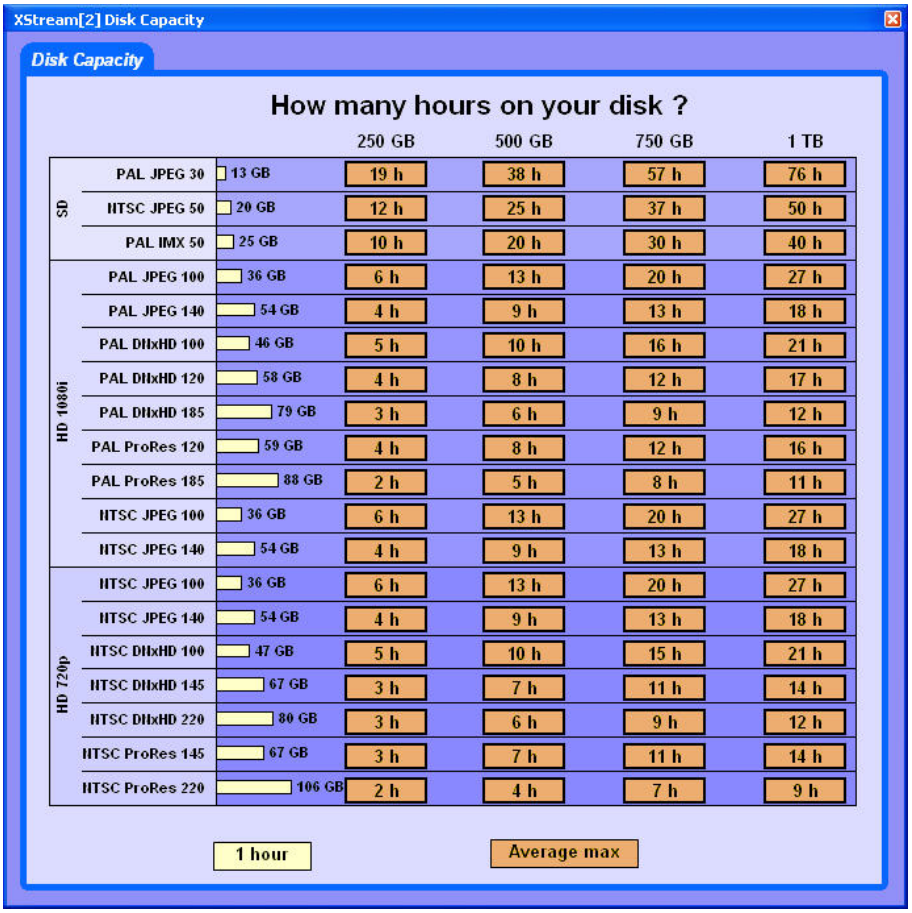
Clicking on the Browse button opens a second window with preview.



Note

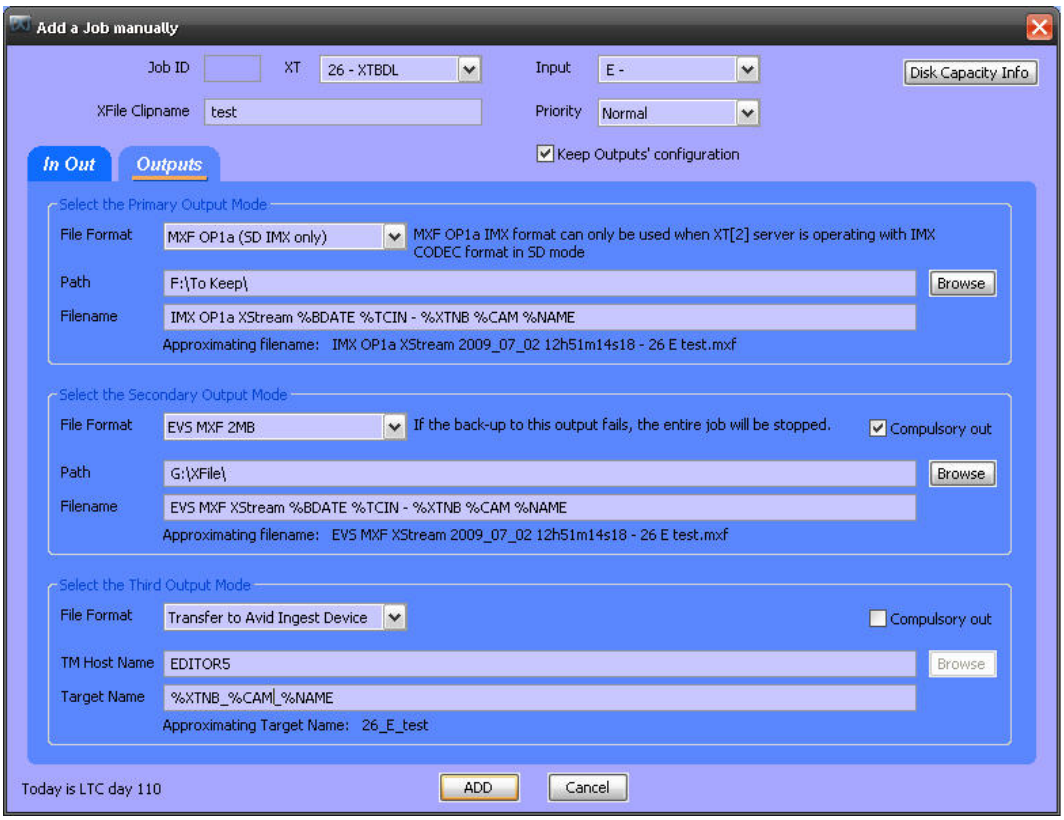
Prior to start recording files, check the disk capacity information by clicking Disk Capacity Info.

A diagram displays the disk capacity required according to the different video standards and bitrates.



4.9.3 Outputs Tab

XStream Multitarget allows creating three different output files, with different format, and saving them to three different paths. This is done without reduction of bandwidth.



The Output tab allows the user to define the settings related to the format and the name of the backup file or the backup clip created, provided that the option **Keep Outputs' Configuration** has been selected

Output File Format

Seven different output formats are available to save the files: EVS MXF 2 MB, MXF OP1a (SD IMX Only), Quick Time Movie, Quick Time Reference, Transfer to Avid Ingest Device, Avid MXF OPAtom and Avid OP1a (Std SMPTE).

Path

Manually select/modify the path for this recording to the correct folder/disk.

Filename

Define a logical filename for this file, so it can easily be found on your disk/system.

If the filename is not filled in, the default filename will be used. The approximating filename is displayed below this field. It takes into account the expected values for the fields included in the filename.

Output Mode

It is not mandatory to use Secondary and Third outputs. When no output format is selected from the **Output Mode** field, **Output Disabled** is displayed.

Compulsory Output for Secondary and Third Output Modes

When the Compulsory Output check box is selected, all the jobs must be completed. If the backup of the compulsory output failed, the entire job will be stopped.

4.10 Creating Jobs in QuickStart Mode

The QuickStart mode allows launching straight away the backup of one or several record trains of one or several EVS video servers. The users start the backup jobs in QuickStart mode from the QuickStart window.

For more information, refer to the following sections:

- section ‘QuickStart Window’, on page 152
- section ‘Setup in QuickStart Mode’, on page 154
- section ‘How to Start a Backup Job in QuickStart Mode’, on page 151.

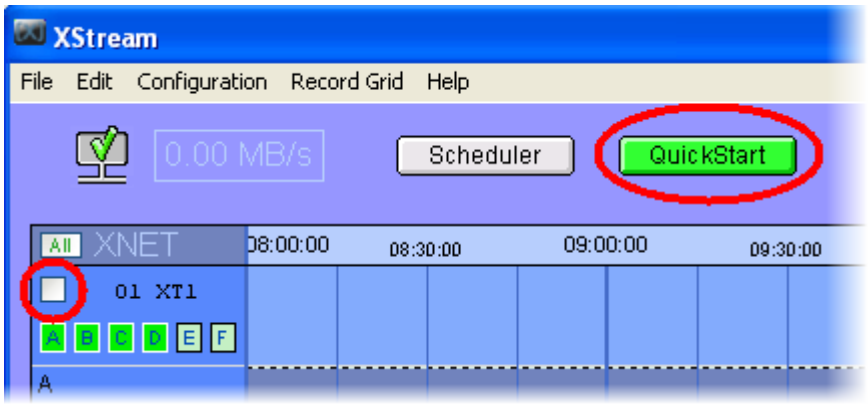
4.10.1 How to Start a Backup Job in QuickStart Mode

Note

Before launching a backup job, ensure that the requested output and storage settings will be applied. For more information, see section 'Setup in QuickStart Mode', on page 154.

To start a backup job in QuickStart mode, proceed as follows:

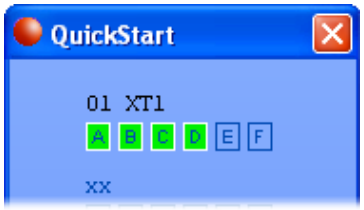
1. In the main XStream window, click the **QuickStart** button to activate the QuickStart mode.
2. The button turns green and a check box appears next to each EVS video server name of the XNet network:



3. Select the check box next to the EVS video server of which you want to back record train(s) up.

   The QuickStart dialog box opens.
4. Select the cameras you want to back up.

   The selected cameras are displayed on a bright green background.



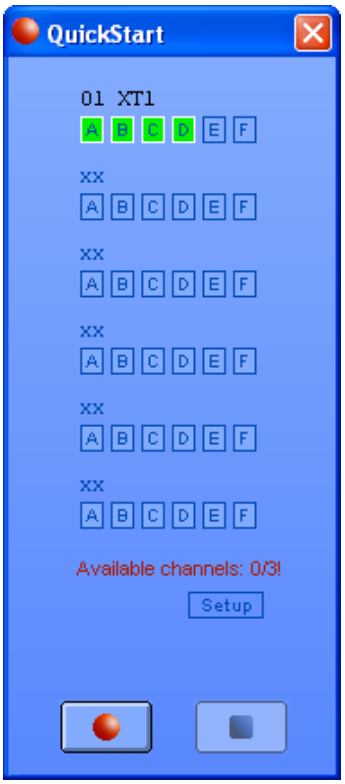
5. Click the **Record** button  to start the job.

This QuickStart job will automatically start from the nowline as an endless job. Consequently, you will have to stop the QuickStart job manually.

4.10.2 QuickStart Window

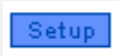
This section describes the fields and buttons of the QuickStart window.

After activating the QuickStart mode, the users can access the QuickStart window by clicking the check box on the left of the EVS video server.



Note

Possible error messages, mainly related to the setup, will be displayed above the Record and Stop buttons.

Field / Button	Description
XT Number and Name 	Displays the EVS server number and name of the selected server. This is a read-only field.
Recorder channel 	Allows (de)selecting the recorder channels of the specified EVS video server of which the record trains will be backed up. By default, all recorder channels available in the given EVS server configuration are deselected and displayed on a pale green background. Click the corresponding letter to select a camera. The selected cameras are displayed on a bright green background. In QuickStart mode, it is not possible to back up more record trains than the number of channels assigned to the XStream. If the user attempts to do this, the following error message will be displayed on the QuickStart window: 
Setup button 	Gives access to the QuickStart Setup window. For more information, see section ‘Setup in QuickStart Mode’, on page 154
Record button 	Starts the backup of the record trains on the selected channels. The backup record starts instantly.
Stop button 	Stops the backup of the record trains on the selected channels. The backup record will be stopped when the user clicks the **Stop** button. 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 QuickStart dialog box.

4.10.3 Setup in QuickStart Mode

The settings defined in the Storage and Jobs tabs accessed via the menu **Configuration** > **System Configuration** are the default settings in QuickStart mode.

In the QuickStart Setup window, you can however define different storage and output settings, specifically for the backup jobs in QuickStart mode. Should the general default settings be modified, the QuickStart settings would be overwritten with the new default values.

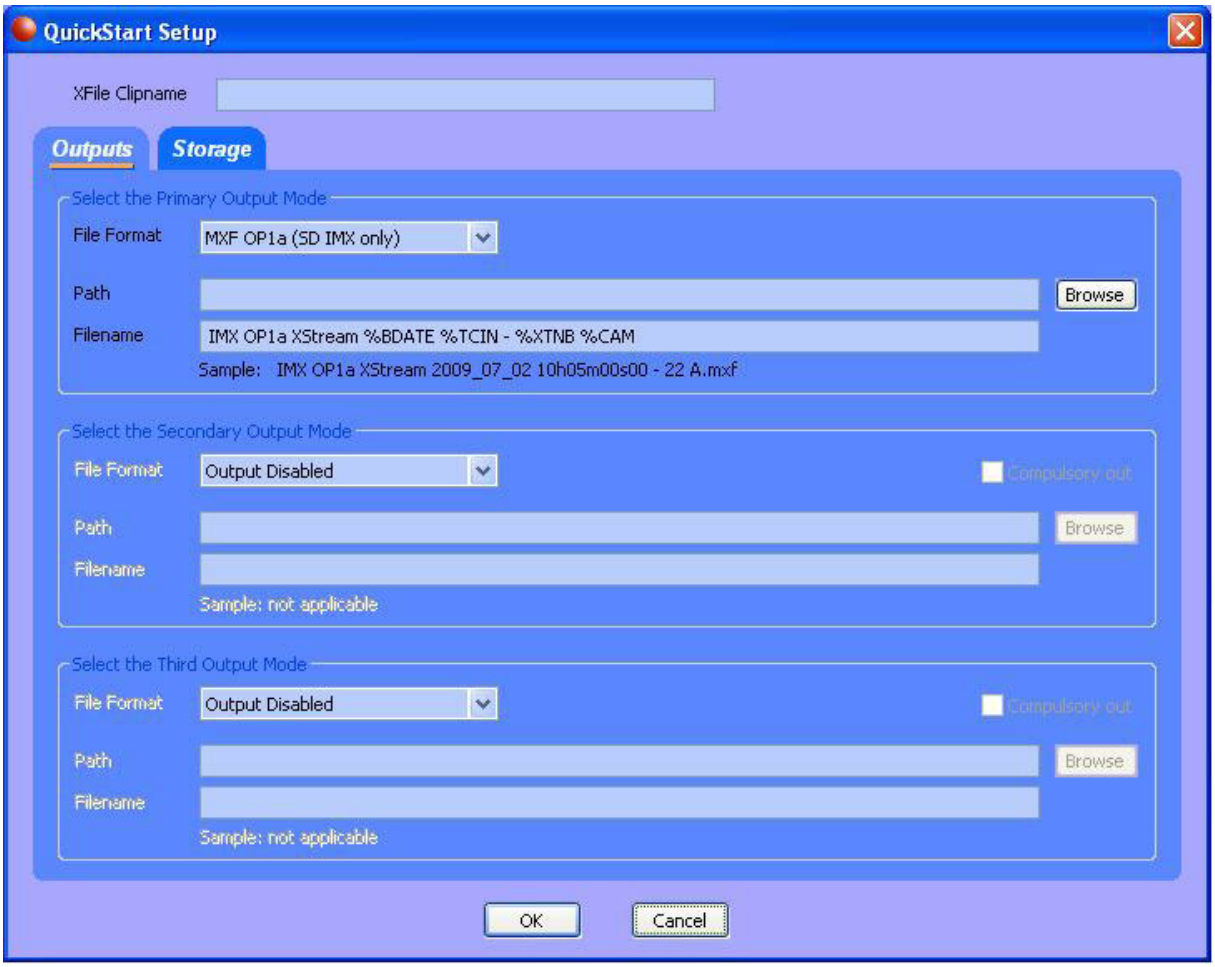
You can access the QuickStart Setup window by clicking the **Setup** button in the QuickStart dialog box.

Note

The settings can only be modified when no QuickStart job is running.

4.10.4 Output Tab

XStream Multitarget allows creating three different output files in QuickStart mode, with different format, and saving them to three different paths. This is done without reduction of bandwidth.



The Output tab allows the user to define the settings related to the format and the name of the backup file or the backup clip created.

These settings will have priority on the default settings defined in the Jobs tab of the XStream Configuration window.

XFile Clipname

Specifies the name of the clip that XFile will create for the backup of the record train(s). The same clipname is assigned to each record train that is backed up in a given job.

Output File Format

Seven different output formats are available to save the files: EVS MXF 2 MB, MXF OP1a (SD IMX Only), Quick Time Movie, Quick Time Reference, Transfer to Avid Ingest Device, Avid MXF OPAtom and Avid OP1a (Std SMPTE).

Path

Manually select/modify the path for this recording to the correct folder/disk.

Filename

Allows to specify an automatic filename for each possible file format selected in the Output Mode group boxes.

See also section ‘Format String’ on page 130 and ‘How to Modify the Default Format String for the Filename’, on page 131.

If the filename is not filled in, the default filename will be used. The approximating filename is displayed below this field. It takes into account the expected values for the fields included in the filename.

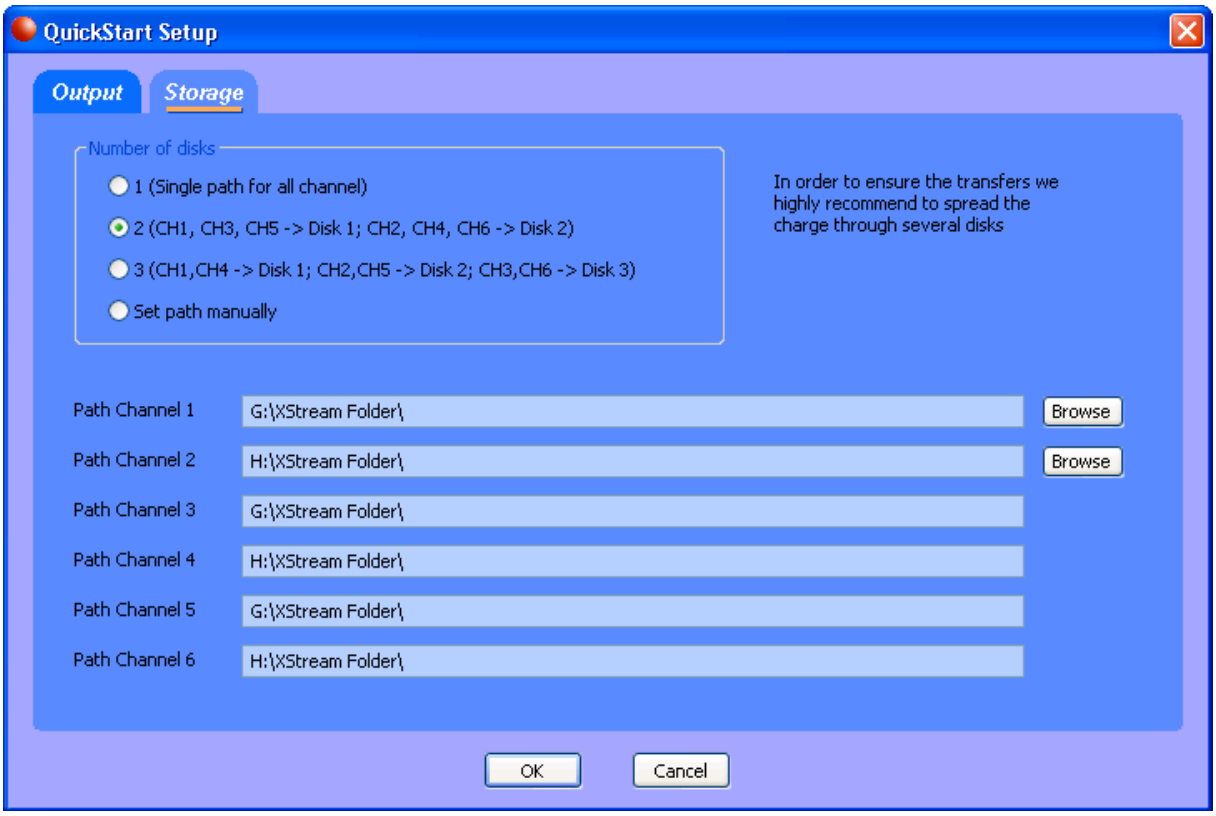
Output Mode

It is not mandatory to use Secondary and Third outputs. When no output format is selected from the **Output Mode** field, **Output Disabled** is displayed.

Compulsory Output for Secondary and Third Output Modes

When the Compulsory Output check box is selected, all the jobs must be completed. If the backup of the compulsory output failed, the entire job will be stopped.

4.10.5 Storage Tab



The Storage tab allows the user to define settings on how and where the backup file will be stored.

These settings will have priority on the default settings defined in the Storage tab of the XStream Configuration window.

Setting Name	Description
Number of disks	Specifies the number of disks assigned to the channels to backup. It is highly recommended to balance the load over several disks to ensure good performances in data transfers.
Path Channel	Specifies the path where the backup files need to be saved for each channel. Depending on the number of disks selected, the path channel will automatically be updated for all path channels once you have entered the names for the first one, two or three path channels.

5. External Modules

The different external modules are available from both XFILE and XSTREAM windows.

5.1 Editing a Clip

Currently, you can edit clips/files backed up in EVS MXF, MXF OP1A or Quick Time Movie. You will only be able to preview backup clips/files having other formats.

When several clips/files exist with the same IDmaterial and file format, e.g. backed up in mirroring mode, changes applied to the keywords of one of the file can automatically be applied to the second file. This must be set under Config Session > User Parameters > Dual Path Editing. Refer to section 3.3.8 'Tab 8 – User Parameters' on page 43.

The editing options are accessed by right-clicking the selected file/clip in the XFile list. The following contextual menu is displayed:

Edit

The **Edit** option is dimmed when working with the Dual Path Editing option enabled.

Selecting the **Edit** option opens the XFile Edit Clip window.

Edit AutoGroup

The **Edit AutoGroup** option is dimmed when working with the Dual Path Editing option disabled.

Selecting the **Edit AutoGroup** option opens the XFile Edit Clip MultiFiles window.

5.1.1 File Info Tab

The first tab of the XFile Edit Clip window shows all current data for the selected file:

The list box in the right area displays all clips saved in a common MXF file. Use the Copy Clip Delete Clip buttons to make a copy of a selected clip or to delete a clip into the MXF file.

When the **Edit AutoGroup** option is selected, the XFile Edit Clip MultiFiles window displays the list of all the files in which the metadata will be saved if they are edited from the open file.

Note

The **Nb Videos** field is the only way to identify the SuperMotion Backup Mode used to backup SSLM clips:

- 1 video(s) for clips backed up with 1/2 or 1/3 frames.
- 2 or 3 video(s) for clips backed up with all frames.

Note

The MXF Doctor software is integrated to the Edit clip module. When editing a clip with a corrupted file index, the system automatically detects the error, notifies the user and starts the repair process. A progress bar appears in the file info tab while repairing the file.

5.1.2 IN – OUT Tab

In the IN-OUT tab, the user can, among others, modify the IN and OUT points, define a REF frame, modify the aspect ratio, select the audio tracks to monitor etc.

Note

The timecode information displayed in the XFile Edit Clip window is in LTC even if the clip has been created with VITC as primary timecode.

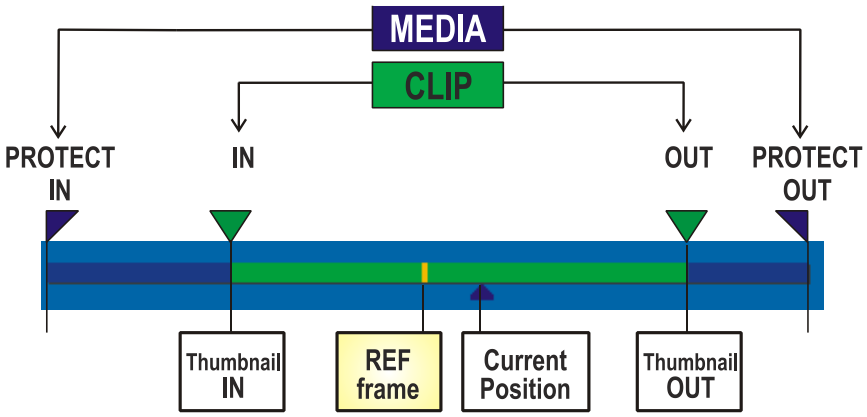
TC Mode

The TC Mode field allows selecting the time code to be displayed in the Edit Clip window. The user can choose among the following values:

TC Mode Name	Description
Legacy	LTC time code without date information, as it was defined before Multicam V 9.00.
LTC Original	LTC time code with date information, as it is defined from Multicam V 9.00. LTC time code defined when the clip was recorded on the EVS video server.
User Original	Time code defined as the user time code when the clip was recorded on the EVS video server.
LTC	LTC time code redefined after the clip was recorded on the EVS video server. If the LTC time code has not been redefined, this field has the value of the LTC Original time code.
User	User time code redefined after the clip was recorded on the EVS video server. If the User time code has not been redefined, this field has the value of the User Original time code.

Timeline

The timeline at the bottom of the window allows you to search the clip in jog mode



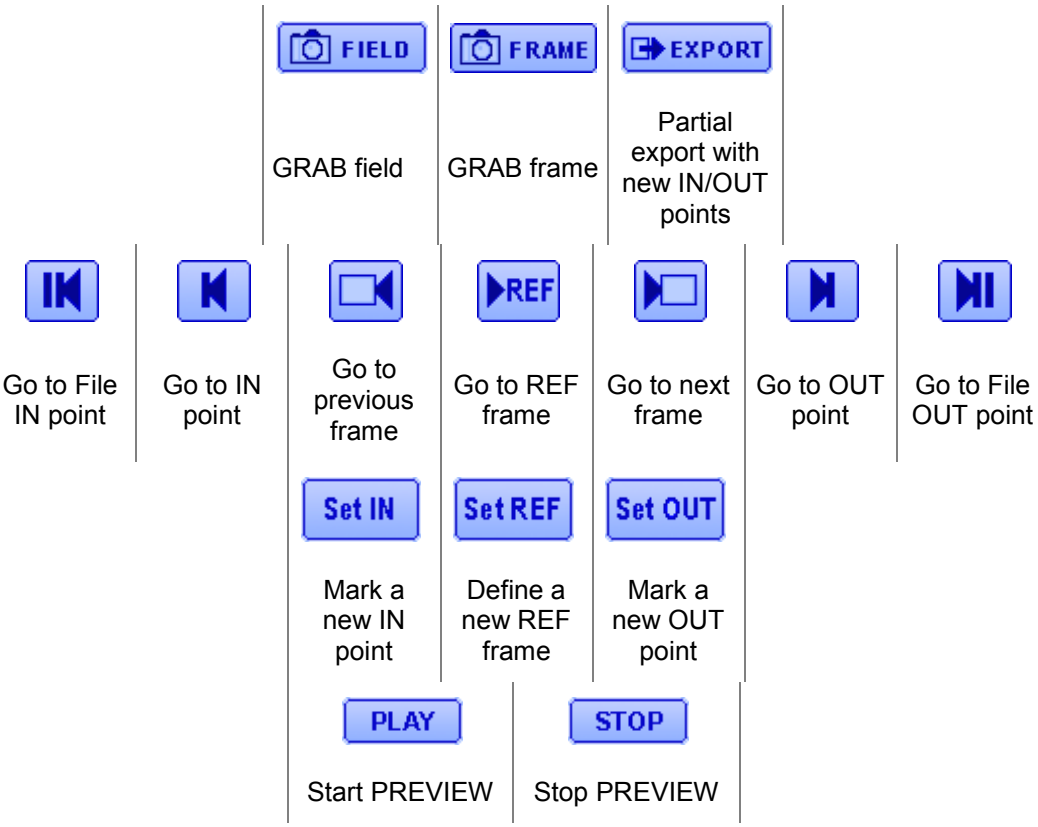
Buttons

The first series of buttons gathers the GRAB & EXPORT functions.

The second series of buttons gathers the SEARCH functions.

The third series of buttons gathers the commands which modify the clip.

The fourth series of buttons gathers the PREVIEW functions.

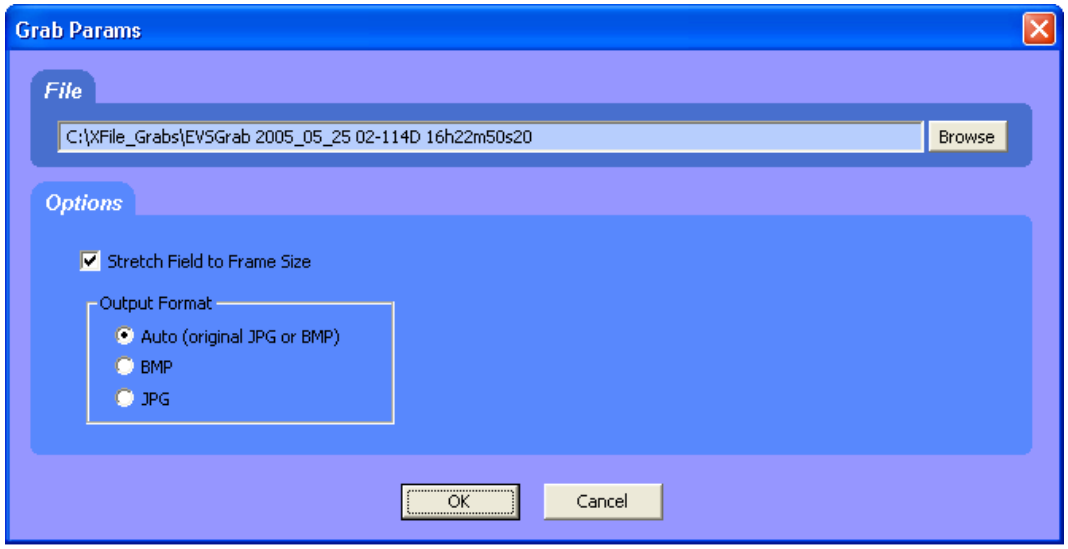


Note

The ShuttlePRO can be used to perform the commands corresponding to the buttons of the IN-OUT tab in the Edit Clip window. For more information on the ShuttlePRO configuration and use with XFile, refer to section 5.2 ‘ShuttlePRO Use in Edit Clip Module’, on page 166.

Grab Options

From the IN-OUT tab of the Edit Clip module, the operator can select one image in the main window (current position of the cursor) and click the **Grab Field** button or the **Grab Frame** button to open the following dialog box:



File Area

Select the filename and the destination folder to save the JPG/BMP files.

Options Area

Stretch field to frame size

This option is only available with the Grab Field function. Should the **Grab Frame** button has been clicked, the option is dimmed.

Enabling this option will automatically stretch the 'field image' to the original 'frame size'.

Output format

The automatic selection of the output format depends on the previous option. If the images are not modified by stretching, the JPG format is defined and if the images are modified by stretching, the BMP format is selected. The user can force the selection of one format.

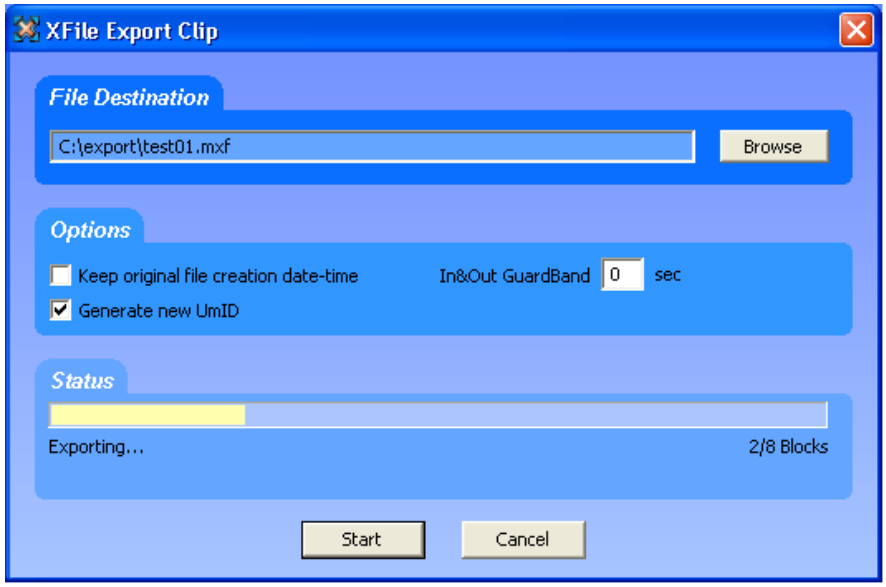
Note

No compression artifact is added to this file creation process, so the original quality of the image is kept.

Export Option

The Export option makes it possible to extract a portion of clip from its original clip and export it to a different MXF file. In this case a different UmID is assigned to the new clip.

When the IN and OUT points of the new clip are defined, click the **Export** button to open the following dialog box:



File Destination Area

Select the filename and the destination folder to save the new MXF file.

Options Area

Keep original file creation date-time

Enabling this option will keep the creation date-time of the original clip even if the UmID is re-defined.

Guardbands

Define the duration of A/V material before and after the IN/OUT points.

Generate new UmID

Set this option to generate a new UmID for the new clip created. (default)

Click the **Start** button to create the new file.

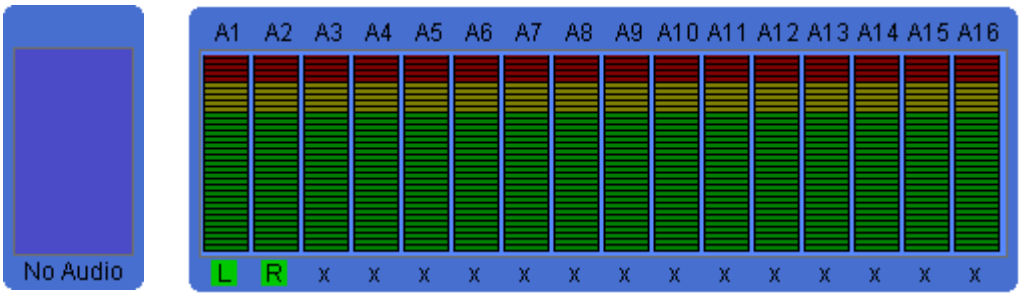
Audio Track Selection and Vumeters

Audio Vumeters

The IN-OUT tab displays as many vumeters as they are audio tracks in the clip: 0, 2, 4, 8 or 16.

Examples

0 audio **16 audios**

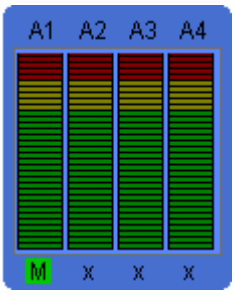


Audio Track Selection

To select the left channel of an audio track, left-click the corresponding cross under the vumeter. Then **L(eft)** is displayed.

To select the right channel of an audio track, right-click the corresponding cross under the vumeter. Then **R(ight)** is displayed.

To select both channels of an audio track, click the corresponding cross twice: once a left-click and once a right-click. Then **M(ixt)** is displayed:

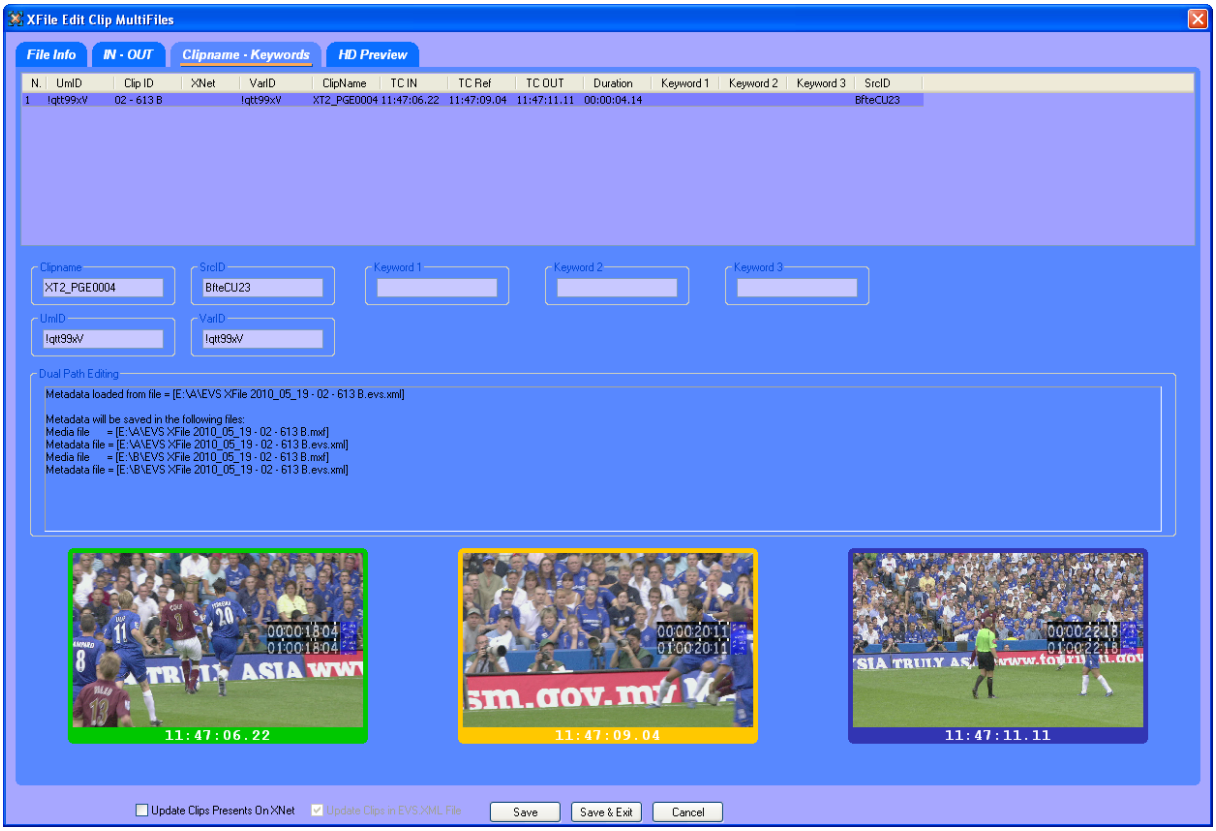


5.1.3 Clipname – Keywords Tab

In the Clipname – Keyword Tab, you can modify the UmID (ID louth) and VarID (extended ID), as well as modify or add a ClipName or keywords.

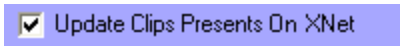
To modify the UmID, VarID, Clipname or keywords, select a clip in the list. Then enter the new information in the related field. The new clipname/keyword is updated in the upper list.

When the **Edit AutoGroup** option is selected, the XFile Edit Clip MultiFiles window displays the list of all the files in which the metadata will be saved if they are edited from the open file.

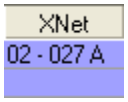


Warning

All clips edited in the 'XFile Edit Clip' module are updated on the XFile disks but a few of them can also be present on the XNet. If those clips need to be updated at the same time, place a checkmark in the following box:

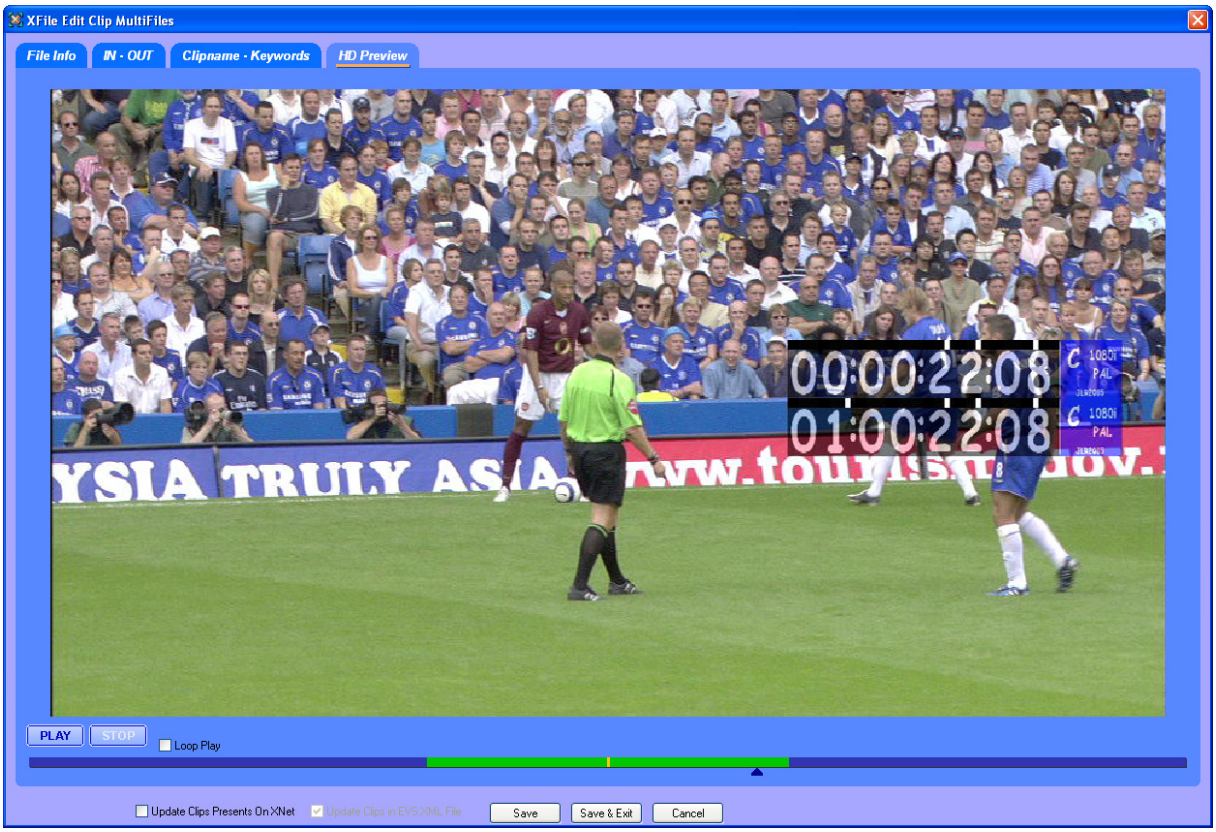


The machine and position of the clip on the XNet are displayed in the XNet column:



5.1.4 HD Preview Tab

When editing an HD clip, the HD Preview tab is added to the Edit Clip module in order to play back the clip with full quality preview in a larger view.



5.2 ShuttlePRO Use in Edit Clip Module

From XFile version 1.12, the ShuttlePRO can be used to perform the commands corresponding to the buttons of the IN-OUT tab in the Edit Clip module.

This chapter explains how to install and configure the ShuttlePRO for use in the Edit Clip module. It also provides the ShuttlePRO and shortcut commands in the IN-OUT tab of the Edit Clip module.

5.2.1 ShuttlePRO Installation and Configuration

To be able to use the ShuttlePRO, you need to install it on the XFile workstation and configure it for use with the XFile application.

To install and configure the ShuttlePRO, proceed as follows:

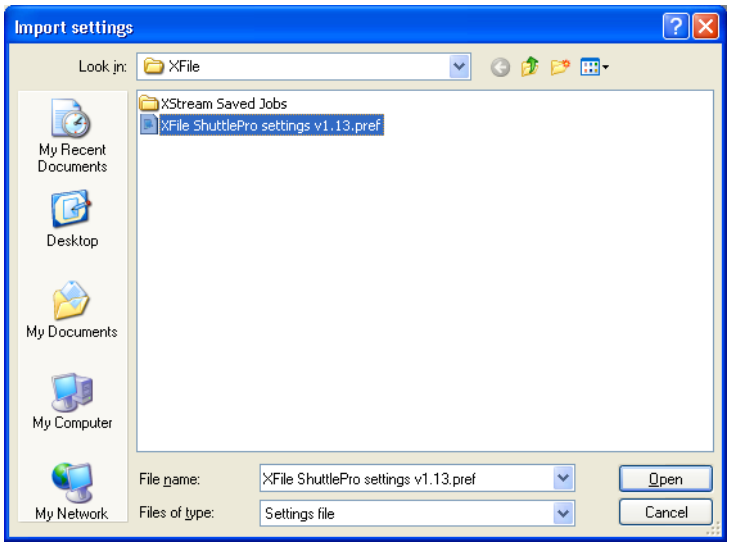
1. Double-click the executable file `cdi_shuttle_win_x.x.xx.exe` (x.x.xx correspond to the version number) delivered with the ShuttlePRO and follow the installation wizard.

2. When this is installed, right-click the ShuttlePRO icon on the right of the Application toolbar. A contextual menu opens.

3. Select **Open Control Panel** from the contextual menu.

   The Shuttle Device Configuration window opens.
   In the ShuttlePRO tab, click the **Options** button and select **Import Settings** from the contextual menu:

The Import Settings window opens:

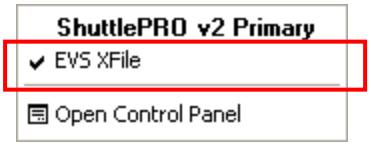


4. Select the file `XFile ShuttlePRO Settings Vx.xx.pref` (`Vx.xx` referring to the file version) that contains the ShuttlePRO settings to be loaded and click **APPLY**.

   The **Application Setting** field in the Shuttle Device Configuration window is updated with the reference to the XFile settings:

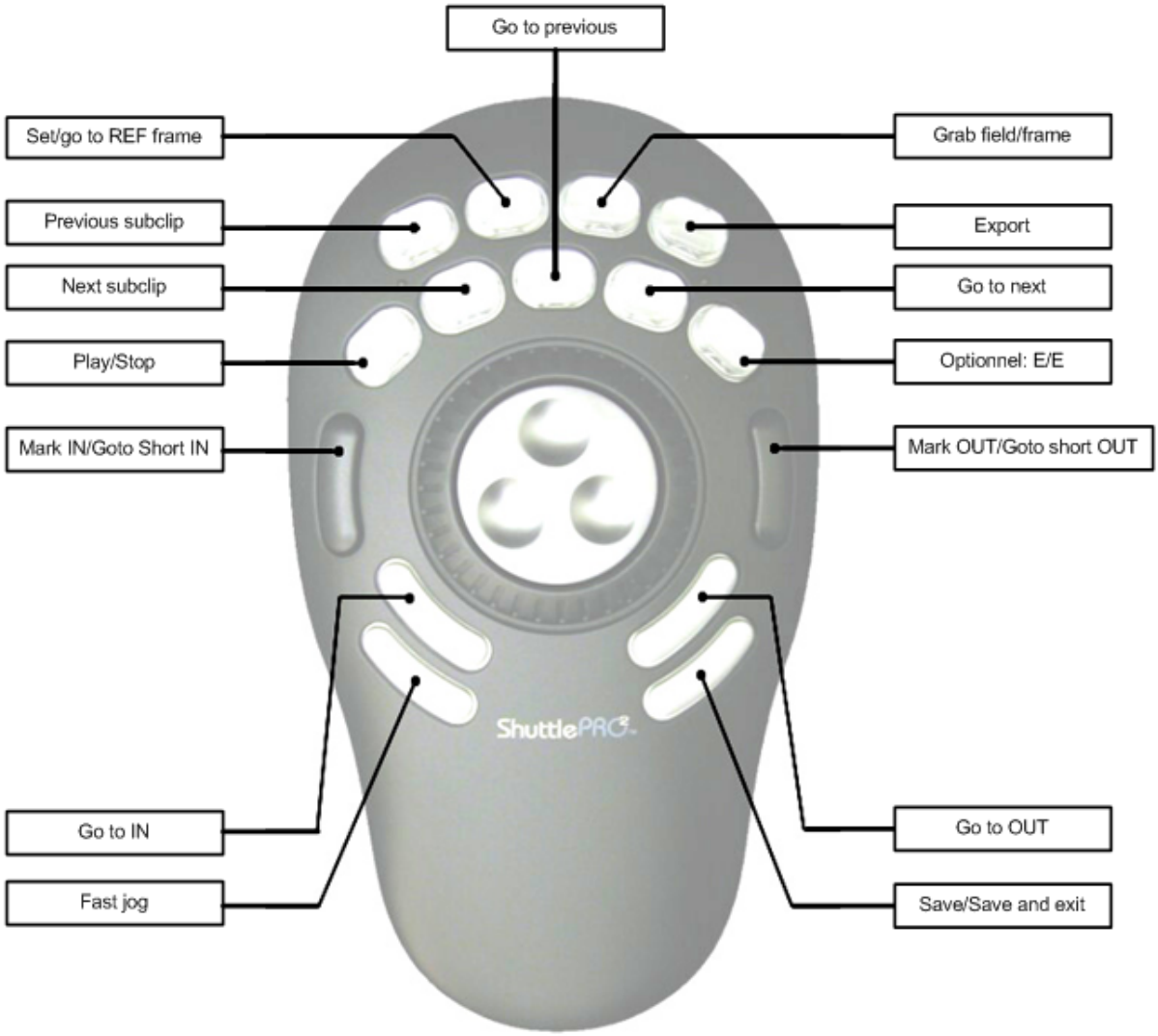
5. Click **APPLY** to confirm that the XFile settings are to be applied to the ShuttlePRO.

To ensure that the XFile settings are active, right-click the ShuttlePRO icon in the Application bar and check that 'EVS XFile' is preceded by a check mark in the contextual menu:



5.2.2 ShuttlePRO Commands in the Edit Clip Module

The drawing below shows the various ShuttlePRO commands in the Edit Clip module:



The following table describes the action that can be performed and specifies the corresponding keyboard shortcut:

ShuttlePRO Command	Keyboard Shortcut	Command Description
BUTTONS		
Mark IN	i	Marks a Short IN point
Mark OUT	o	Marks a Short OUT point
Go to Short IN	CTRL+i	Goes to the Short IN point

Go to the Short OUT	CTRL+o	Goes to the Short OUT point
Go to IN	a	Goes to the Protect IN point
Go to OUT	z	Goes to the Protect OUT point
Play/Stop	<space bar>	Play/pause of the preview
Save	S	Saves the changes
Save & exit	CTRL+s	Saves the changes and exists the Edit Clip module.
Cancel	<esc>	Cancels the changes and exists the Edit Clip module.
Set REF Frame / Go to REF Frame	r / CTRL+r	Defines the current picture as the REF frame / goes to the REF frame.
Grab field/frame	g / CTRL+g	Captures the top field/frame of the current picture.
Go to ↑ subclip	<arrow up>	Selects the previous subclip in the list.
Go to ↓ subclip	<arrow down>	Selects the next subclip in the list.
Export	CTRL+e	Opens the Export Clip dialog box.
Fast jog	j	Switches between the Jog and Fast Jog mode.
E/E	l	For future use in the tool that will allow browsing in trains.
Go to previous	<arrow left>	Goes to the previous picture. CTRL+←: jump of 10 frames backwards ALT+←: jump of 1 sec. backwards
Go to next	<arrow right>	Goes to the next picture. CTRL+→: jump of 10 frames forwards ALT+→: jump of 1 sec. forwards
JOG		
Jog Left	<arrow left>	Goes to the previous picture.
Jog Right	<arrow right>	Goes to the next picture.

5.3 XFile Clip Info Exporter

The XFile Clip Info Exporter is an external module that allows exporting the clip metadata of all the clips located in a given folder to an XML, TXT or CSV file. This option can be useful for printing purposes.

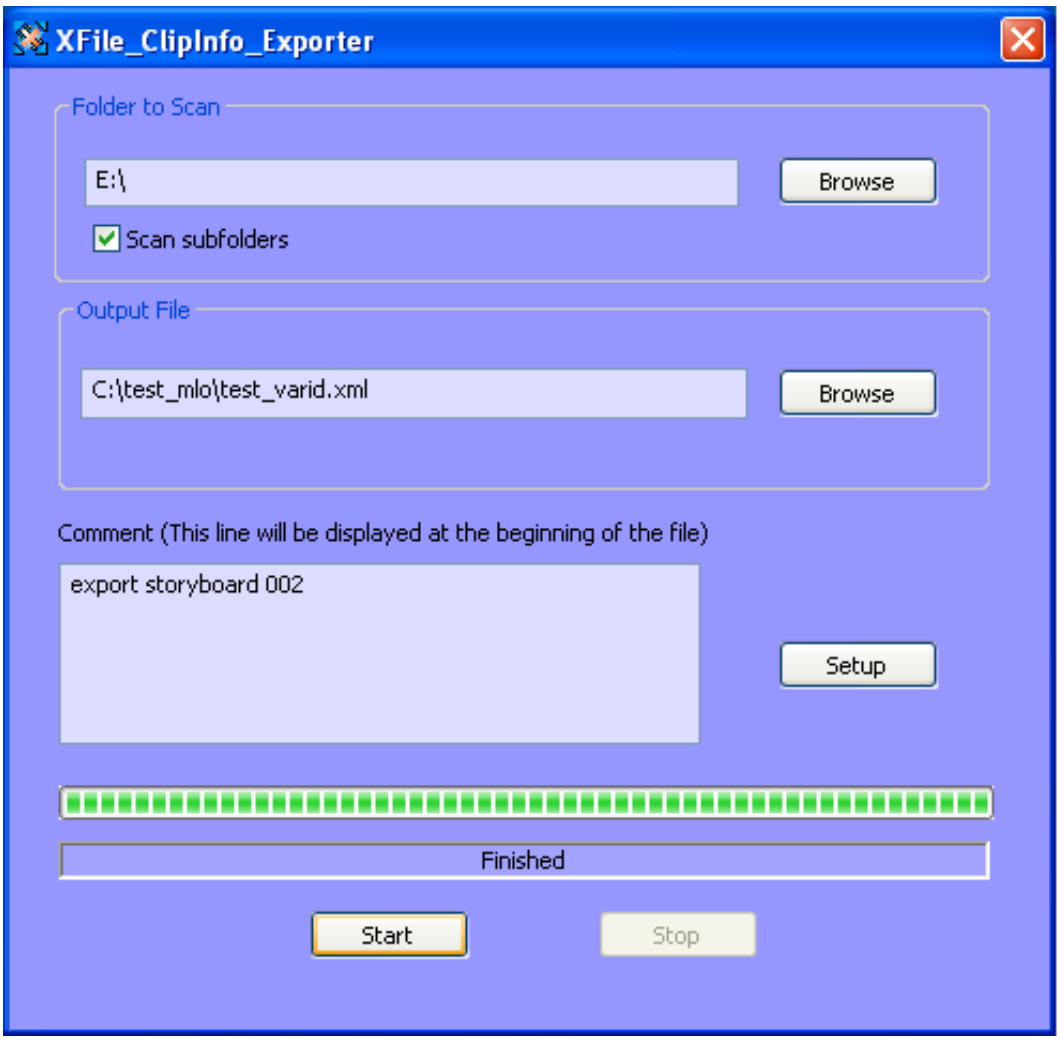
The user can access this module:

- by clicking the **XFile Clip Info Exporter** icon 

on the Desktop

  OR

- by selecting the tool name from the menu **Start > All Programs > EVS Broadcast Equipment > XFile > XFile Clip Info Exporter**.



5.3.1 How To Export Data to an XML, TXT or CSV File

You can export the metadata of all the clips located in a given folder to a TXT, XML of CSV file.

To export data to an external file, proceed as follows:

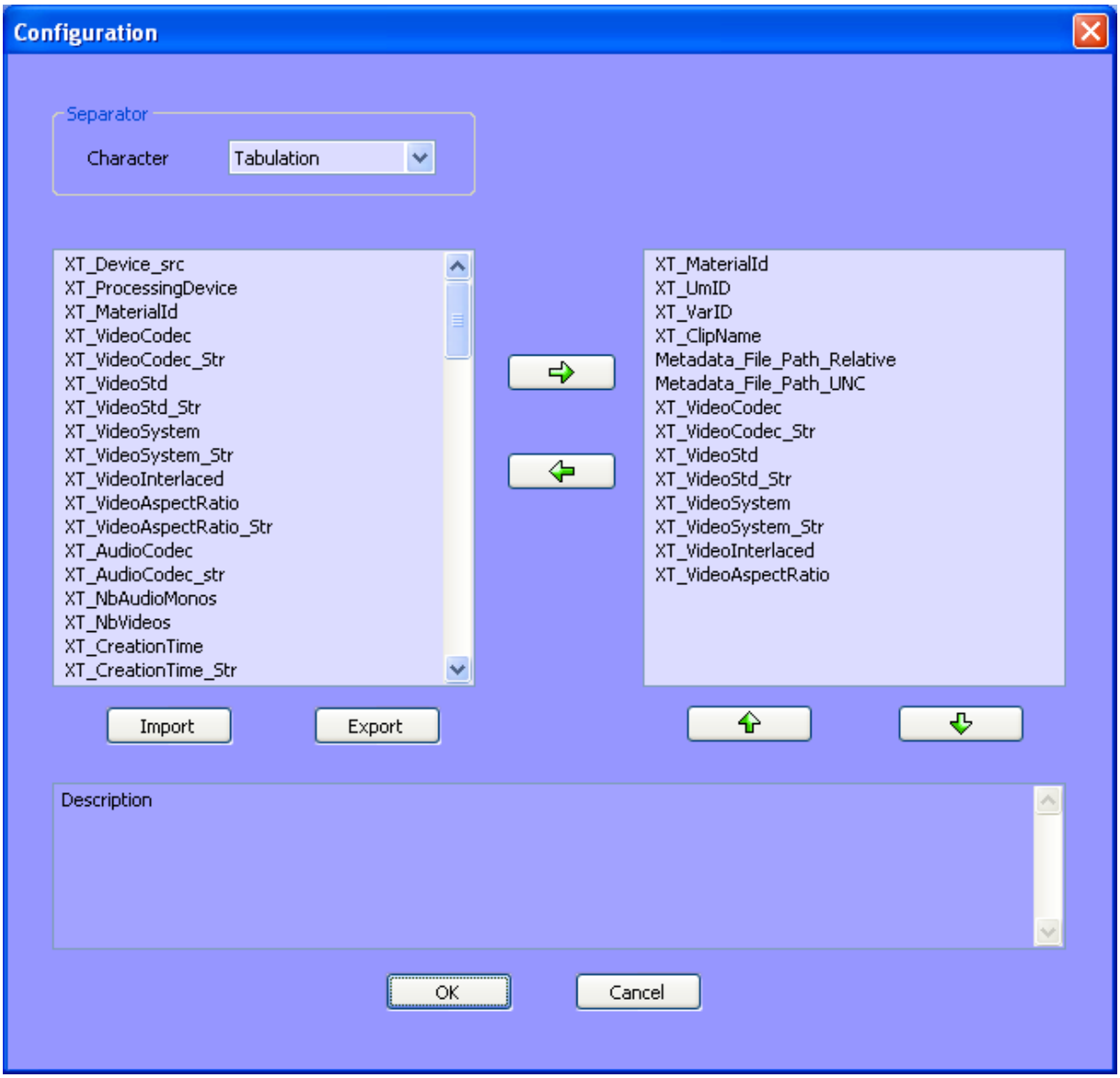
1. Double-click the **XFile Clip Info Exporter** icon on the desktop to open the **XFile_ClipInfo_Exporter** window.

   Click the **BROWSE** button in the Folder to Scan area. The Browse for Folder window is displayed.
2. In this window, select the folder where the MXF files are saved and click **OK** to confirm the selection.
3. Click the **BROWSE** button in the Output File area. The Save As window is displayed.
4. In this window, select the folder where the output file should be stored, the type of requested file and type the name of the output file.
5. Click the **SAVE** button to confirm.
6. In the XFile_Clip_Exporter window, click the **START** button to proceed to the file export.

The new file is a standard TXT, XML or CSV file, which can be easily exported to any other software.

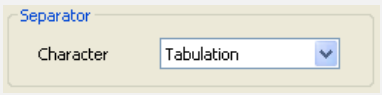
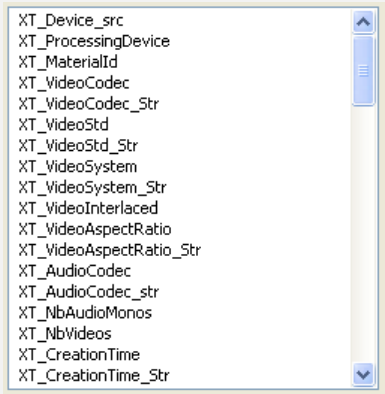
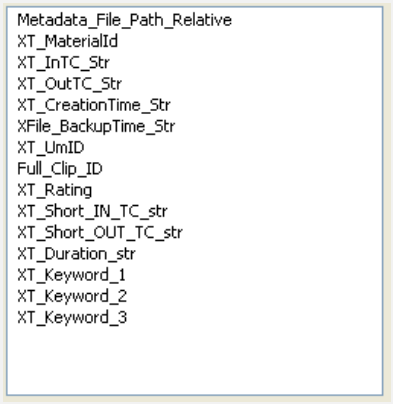
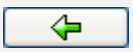
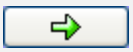
5.3.2 Configuring the XFile Clip Exporter

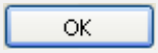
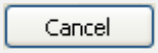
Configuring the XFile Clip Exporter consists in specifying which metadata fields have to be exported to the output files. The user configures the Exporter in the Configuration window accessed via the **Setup** button on the XFile_Clip_Exporter window:



5.3.3 Fields in the Configuration Window

The following table describes the various fields in the Configuration window:

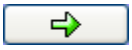
Field	Description
	Drop-down list box in which the user selects the separator to be used in the TXT and CSV files to separate the metadata values of a clip.
Left list box 	List of all selectable clip metadata.
Right list box 	Selection of clip metadata that will be exported to an output file.
	Button to remove from the selection the clip metadata selected in the right table.
	Button to add to the selection the clip metadata selected in the left table.
	Button to import a configuration file. The configuration file that will automatically be imported needs to be located in the folder `C:\Program Files\EVS Broadcast Equipment\XFile` and be called `XFile_ClipInfo_Exporter_Config_File.xml`.

	Button to export the selection of metadata fields into an external file. The configuration file is generated in the folder `C:\Program Files\EVS Broadcast Equipment\XFile` and is called `XFile_ClipInfo_Exporter_Config_File.xml`.
	Button to move down one position the clip metadata selected in the right table.
	Button to move up one position the clip metadata selected in the right table.
	Button to confirm the changes in the Configuration.
	Button to leave the Configuration window without applying the changes.

5.3.4 How To Export The XFile Clip Exporter Configuration to a File

The configuration of the XFile Clip Exporter can also be saved to a file. This file can then easily be copied to other workstations. This ensures that all workstations on an event generate the same metadata files.

To export the XFile Clip Exporter configuration to an XML file, proceed as follows:

1. In the XFile Clip Exporter module, click the  button to access the Configuration window.
2. In the left table, select the fields that you want to include in the configuration file. Use **CTRL**+click for multiple selection.
3. Click the  button to move them to the right list box which contains the selection of metadata fields to be included in metadata output files.
4. If some fields have to be removed from the selection, select them in the right list box and click the  button.
5. When you generate TXT or CSV files, select a separator from the **Character** field.
6. Click the  button.

The file is generated in the folder `C:\Program Files\EVS Broadcast Equipment\XFile` and is called `XFile_ClipInfo_Exporter_Config_File.xml`.

5.3.5 How To Import The XFile Clip Exporter Configuration to a File

When a user receives a configuration file generated with the XFile Clip Exporter and needs to apply this configuration to its XFile Clip Exporter module, he needs to import the configuration file.

Note

In the folder C:\Program Files\EVS Broadcast Equipment\XFile, rename the file `XFile_ClipInfo_Exporter_Config_File.xml` in order not to overwrite it during the import procedure detailed below.

To import the configuration file, proceed as follows:

1. Place the configuration file (called X`File_ClipInfo_Exporter_Config_File.xml`) in the folder `C:\Program Files\EVS Broadcast Equipment\XFile.`
2. Open the XFile Clip Exporter module by clicking the corresponding icon on the Desktop.
3. Select the 

button to open the Configuration window.
4. Click the 

button to import the configuration file.

The metadata fields in the right list box are updated with the data from the configuration file. From then on, the metadata fields specified in the right list box will be included in the output files generated with the XFile Clip Exporter module.

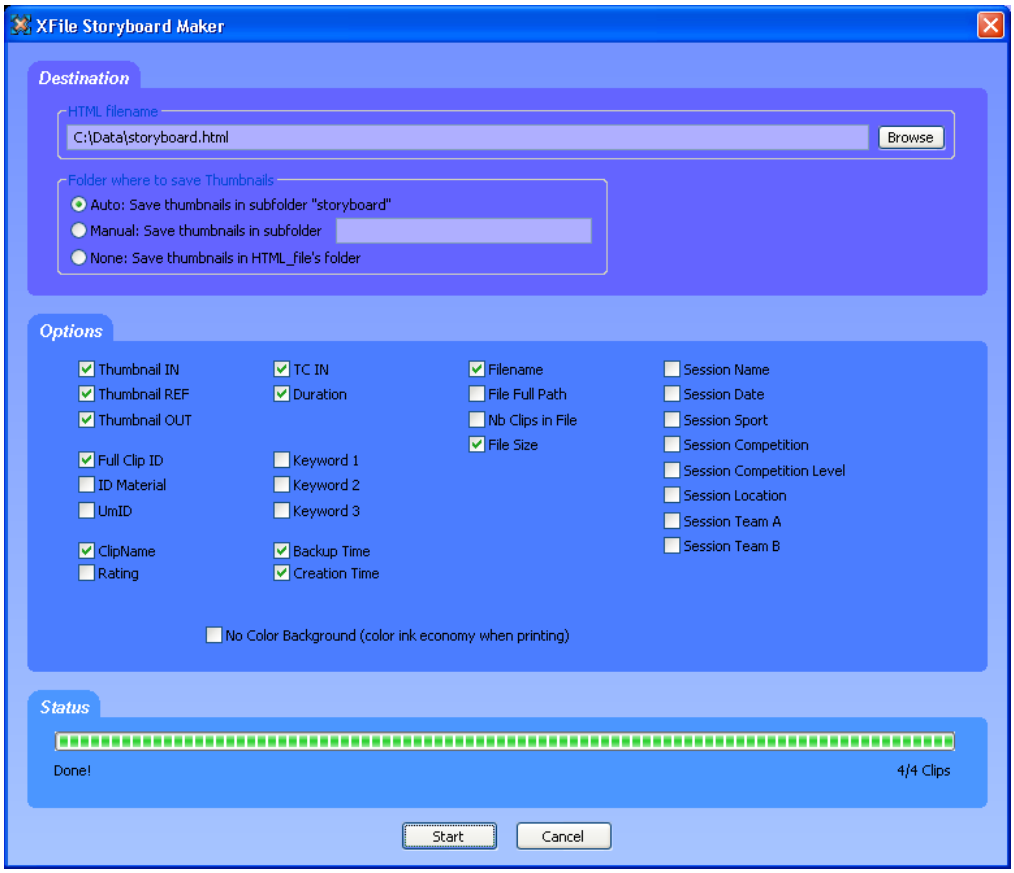
5.4 Storyboard

In the XFile List of the Maintenance mode, the **Storyboard** button is available for exporting data to HTML file format.

How to Export Data to HTML File (Storyboard)

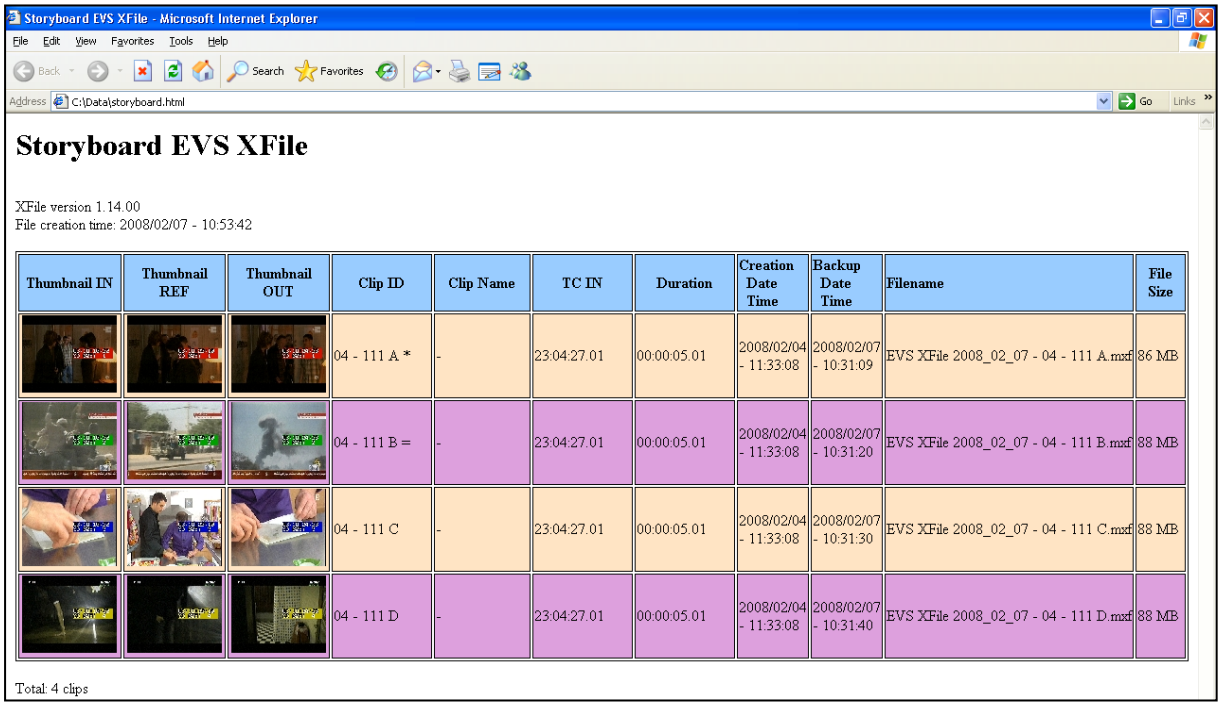
To export data to an HTML file, proceed as follows:

1. Click Storyboard to open the following dialog box:



2. Enter a filename for the HTML file.
3. Define a folder to save the thumbnails.
4. Select the data to include in the HTML file.
5. Click the **Start** button to proceed with the HTML export.

The HTML output file will be similar to the screenshot below:



Storyboard EVS XFile - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\Data\storyboard.html

Storyboard EVS XFile

XFile version 1.14.00
File creation time: 2008/02/07 - 10:53:42

Thumbnail IN	Thumbnail REF	Thumbnail OUT	Clip ID	Clip Name	TC IN	Duration	Creation Date Time	Backup Date Time	Filename	File Size
			04 - 111 A *	-	23:04:27.01	00:00:05.01	2008/02/04 - 11:33:08	2008/02/07 - 10:31:09	EVS XFile 2008_02_07 - 04 - 111 A.mxf	86 MB
			04 - 111 B =	-	23:04:27.01	00:00:05.01	2008/02/04 - 11:33:08	2008/02/07 - 10:31:20	EVS XFile 2008_02_07 - 04 - 111 B.mxf	88 MB
			04 - 111 C	-	23:04:27.01	00:00:05.01	2008/02/04 - 11:33:08	2008/02/07 - 10:31:30	EVS XFile 2008_02_07 - 04 - 111 C.mxf	88 MB
			04 - 111 D	-	23:04:27.01	00:00:05.01	2008/02/04 - 11:33:08	2008/02/07 - 10:31:40	EVS XFile 2008_02_07 - 04 - 111 D.mxf	88 MB

Total: 4 clips

Appendix 1: XF2 Hardware

Hardware Description

The XFile software is installed in a workstation operating under Windows XP Pro, Windows 7 or Windows Server 2008 (32 bits). The standard system is Intel Core2 Duo E6300 Processor, Intel Motherboard with DRAM 1GB and an EVS PCX board.

Note

The PCX1 board is not compatible with XFile v2.00 and higher.

The hardware components of the XF2 platform (formerly called XFile[2]) are housed in a 3U rack cabinet equipped with 2 x ATA 133 1TB or 2TB Mobile Cartridges.

The XF2 platform is included in the XNet in which EVS video servers interact via SDTI network.

This XF2 platform is also equipped with two additional Gigabit Ethernet adapters that support the jumbo frame mode for connections with the EVS video server GigE ports and third parties.

Installing a New Hard Disk

The aim of the following procedure is to describe how to place and format a new storage hard disk into an XF2. It is divided into three parts:

1. Mounting the Disk into the Carrier
2. Creating a Partition on the Storage Disk
3. Disabling the Disk Indexing

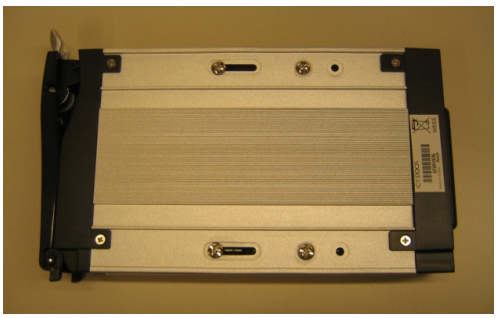
Mounting the Disk into the Carrier

1. Configure the hard disk in Master mode. For more details, see the section ‘Hard Disk Configuration’, on page 182.

2. Connect the carrier internal IDE cable and place the hard disk into the disk tray, fixing it with the four screws (either on the side or on the underside of the canister depending on the model: see pictures below).

Note

EVS strongly recommends to apply some glue, like the Loxeal Engineering Adhesive (medium thread locking), on the screw-thread.



3. Place the disk tray cover, and then insert it into the XF2.

Creating a Partition on the Storage Disk

1. From the desktop, right click on **My Computer** and select **Manage** from the contextual menu.

   The Computer Management window opens.

2. Select **Disk Management** from the Storage section in the Computer Management tree view.

   The new disk will appear as **Unknown** and **Not Initialized**. A red icon is displayed next to the disk name.

3. Right click the disk with the red icon and select **Initialize Disk** from the contextual menu.

4. Click **OK** in the Initialize Disk window to initialize the disk.

5. In the Computer Management window, right click on the same disk and select **New Partition** from the contextual menu.

   A new Partition Wizard will appear.

6. Create a full size primary partition selecting the G letter (for the left disk) or the H letter (for the right disk) and using the following settings in the Format Partition window:

   - File System: 'NTFS'
   - Allocation Unit Size: 'Default'
   - Volume Label: assign a name freely
   - Perform a quick format: select this option

Disabling the Disk Indexing

1. Open Windows Explorer.

2. In the left window, right click on the new G or H disk then select Properties.

3. Into the General tab, deselect the **Allow Indexing Service** option then click the **Apply** button.

4. Select Apply Changes to Subfolders and Files, click twice OK.

Hard Disk Configuration

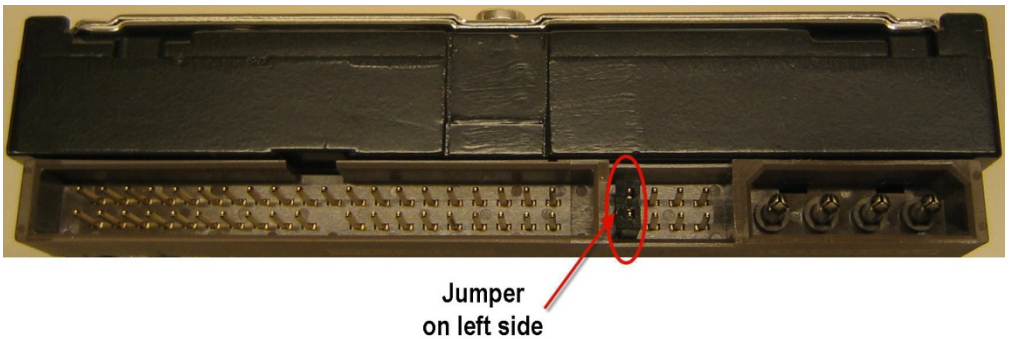
EVS provides the following hard disks. The table below specifies the hard disk reference, the capacity as well as information on how to configure it in master mode:

Hard Disk	Capacity	Configuration
Western Digital WD 2500	250 GB	No jumper
Maxtor MaXLine PRO 7H500RO	500 GB	Jumper on the left
Seagate ST3500 641 AV	500 GB	Jumper on the left
Seagate ST3750 640 AV	750 GB	Jumper on the left

Should you want to use another disk type, refer to the hard disk data sheet to configure it properly as a master.

Western Digital WD 2500 (250 GB)

Maxtor and Seagate hard disks



Creating and Reinstalling a Ghost of your System

The aim of this procedure is to describe how to create a ghost image of your system and how to restore your system with an existing image.

Note

All delivering systems have a R: RESTORE partition located on the system disk. This allows you to have an image file of the C: partition, and easily restore the complete XP operating system and XFile Software to the factory default state at any time.

How to Re-install your System with an Existing Image

1. Reboot the system on Bootable DVD (or USB key) which is delivered with the original system. On XFILE system, modify Boot priority in the BIOS settings in order to boot on the USB key.
2. For USB key only, select **EVS Ghost Backup or Restore** in the menu.
3. In the ghost startup window, press **ENTER** to open the toolbar.
4. In the next window, select Local / Partition / From Image followed by **ENTER**.
5. In the next window, press the **TAB** key to select the 'Look in area' and open the list by pressing the [down arrow] key. Select the source drive: D fat drive (RESTORE) then **ENTER**.
6. Select the image file you want to restore then **ENTER**.
7. In the next window, select the Source partition #1 then **ENTER**.
8. In the next window, select the Destination drive #1 then **ENTER**. Press the **TAB** key to select the OK button, and then press **ENTER**.
9. In the next window, select the Destination partition #1 then **ENTER**. Press the **TAB** key to select the OK button, then press **ENTER**.
10. At the message 'Proceed with partition restore' select yes then **ENTER**.
11. When the process is complete press **ENTER**. Select Quit then **ENTER**, then Yes and **ENTER**.
12. Remove the DVD disk (or USB key) and reboot the system.

How to Create a New Ghost Image of your System

1. Reboot the system on Bootable DVD (or USB key) which is delivered with the original system. On XFILE system, modify Boot priority in the BIOS settings in order to boot on the USB key.
2. For USB key only, select 'EVS Ghost Backup or Restore' in the menu.
3. In the ghost startup window, press **ENTER**.
4. In the next window, select Local / Partition / To Image then **ENTER**.
5. In the next window, select the Source drive, drive #1 then **ENTER**.
6. In the next window, select the Source partition #1 then **ENTER**. Press the **TAB** key to select the OK button, then **ENTER**.
7. In the next window, press the **TAB** key to select the Look in area and open it by pressing the down arrow key. Select the destination drive: D fat drive (RESTORE) then **ENTER**.
8. Press the **TAB** key to select the File name area then type the file name: XFI111XX (where 111XX is the current version number). It is also recommended to provide a description of the GHOST you are creating.
9. Press the **TAB** key to select Save then **ENTER**.
10. Select 'Compress high', then **ENTER**.
11. At the message 'Proceed with partition image creation' select yes then **ENTER**.
12. When the process is complete press **ENTER**. Select Quit then **ENTER**, then Yes and **ENTER**.
13. Remove the USB key or DVD and reboot the system.

EVS Headquarters
Liège Science Park
16, rue Bois St Jean
B-4102 Seraing
Belgium

Corporate
+32 4 361 7000

North & Latin America
+1 973 575 7811

Asia & Pacific
+852 2914 2501

Other regional offices
www.evs.com/contact

To learn more about EVS go to **www.evs.com**