User's Manual

Version 2.12 - July 2009

[X]File

Archive / Storage & Gateway Solutions

EVS

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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.tv.

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The changes linked to new features in versions 2.11 and 2.12 are listed in the table below:

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XFile: The Session Configuration Advanced Parameters tab has been spiltted into two tabs: Tab 4 File Format and Tab 8 User Parameters.	
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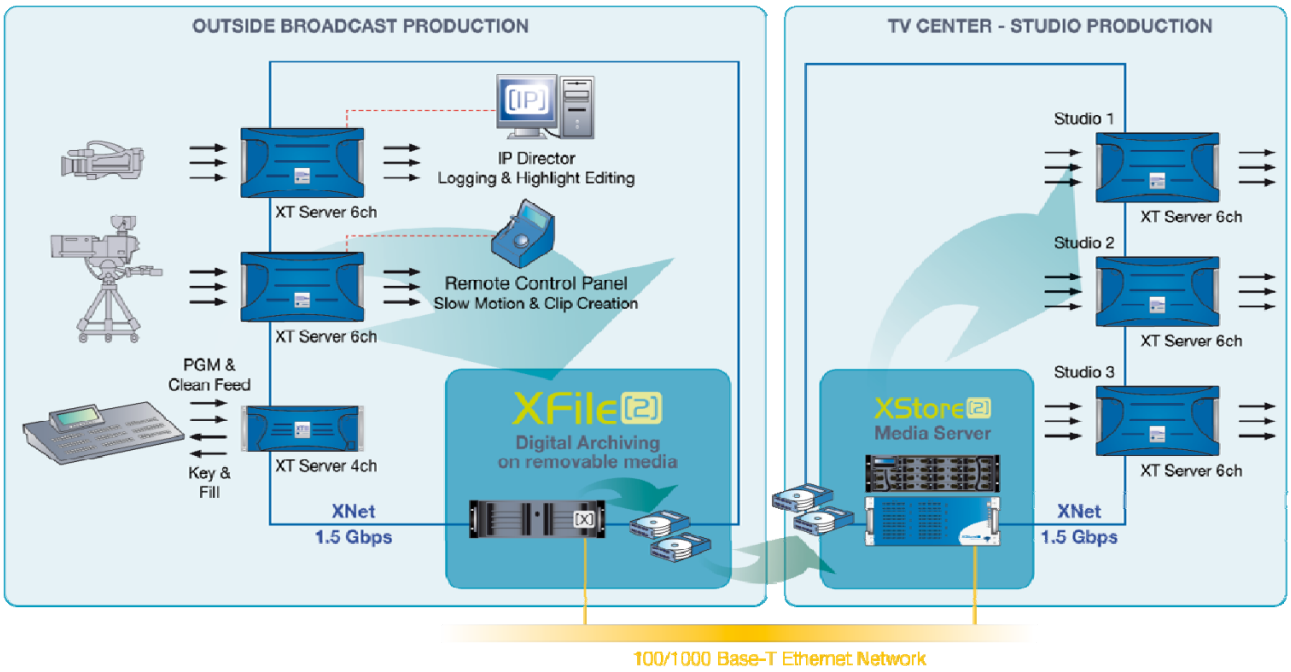
NEW FEATURES IN XFILE VERSION 2.12

XStream: Multitarget allows the creation of three different output files with different formats in QuickStart mode.	
Section 4.10.4	Creating Jobs in QuickStart mode - Output Tabs.

1. Introduction

Digital Archiving on removable media

The XFile has access to all footage recorded on XT[2] 6U, XT[2] 4U, AirBox and SpotBox servers through the SDTI 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 XT[2] 6U or XT[2] 4U 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 equipped with 2 removable media, working 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 750 GB or 64 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 server (XT[2] 6U, XT[2] 4U or AirBox) on the network.

All Super-motion clips, created on any networked XT[2] 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 where captured from the super-motion camera just now.

The combination of XT[2] 4U, XT[2] 6U, AirBox and XFile, all interconnected on XNet, forms the basic architecture required to move from a mostly tape-based production to a disk-based environment.

Note

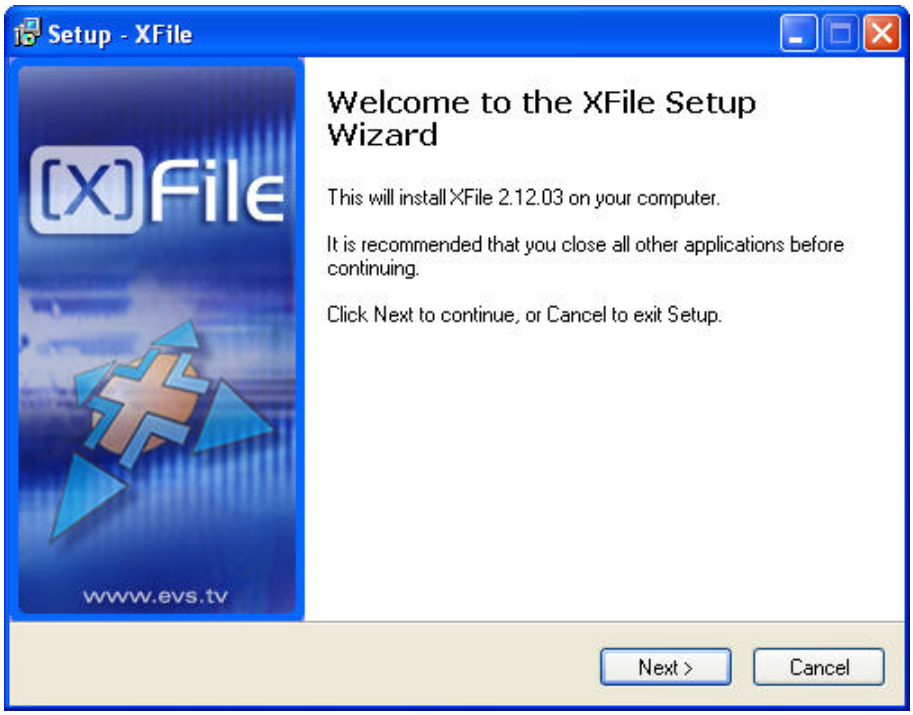
The Appendix 1, on page 181, provides more technical information related to the XF[2] hardware and is intended to administrators.

2. Software Installation

Important

The XFILE 2.12 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 2.12 uninstall the previous versions of XFILE and XSTREAM.

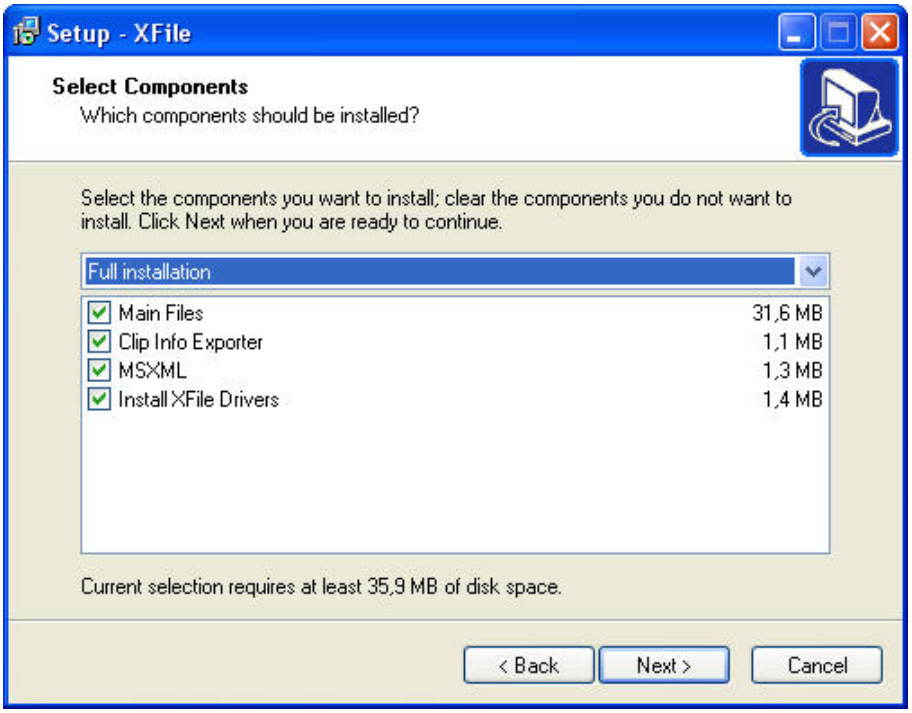
1. Run XFILE INSTALLER and follow the steps of the Setup Wizard:



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:



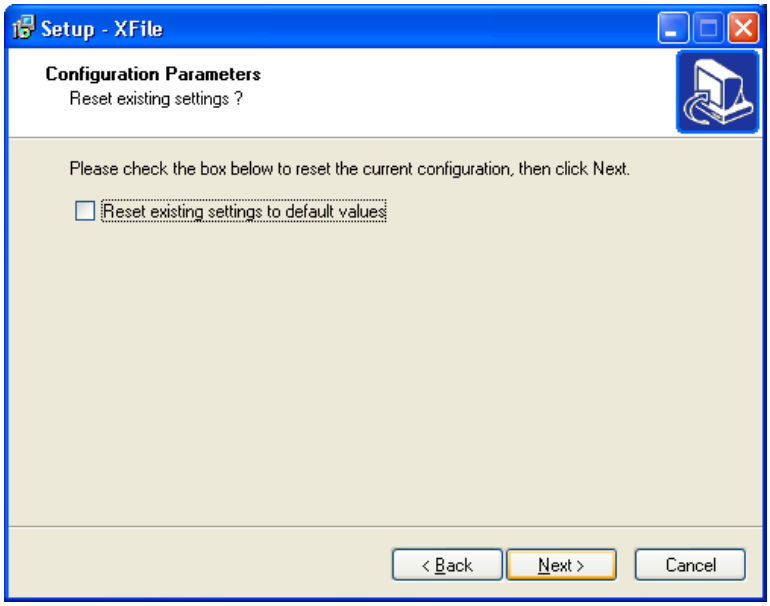
- Main files which include XFILE and XSTREAM installers
- Clip Info Exporter
- MSXML
- Drivers of PCX2 board

Click Next.

4. In the next window, select the destination directory to install the new software and click Next.

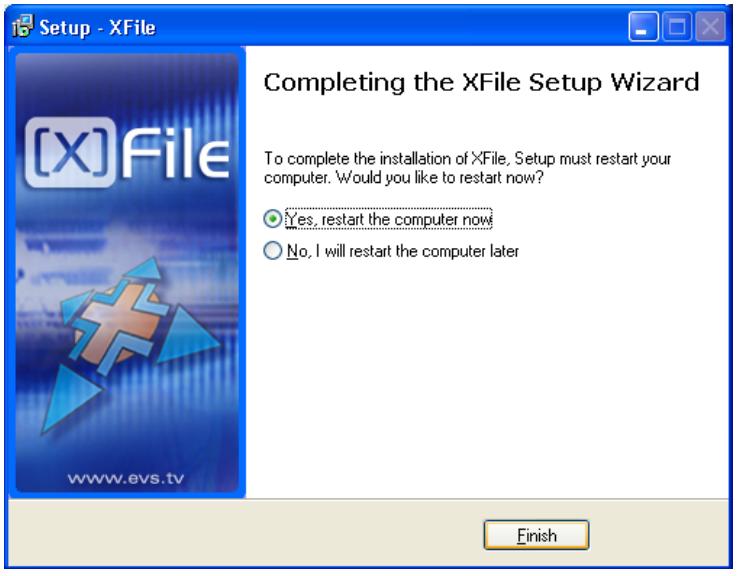
5. In the Contiguration Parameters window, select the RESET EXISTING SETTINGS option, if required, and click Next to continue.

   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 press Finish to quit the installation process.



After re-start, the XFile installation is successfully completed and a 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 bandwith 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

XFILE IDENTIFICATION ON THE NETWORK

Standalone mode

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

Important

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.

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 XT[2]s on the XNet network.

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

This parameter specifies the size of the media blocks recorded on the XT[2] 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 XT[2] servers dedicated to lo-res content or on XL[2] servers.

SDTI Speed (540Mbps / 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 Unitiy (Global / Local)

This parameter is available from XFile version 2.00. It 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 XT[2] level.

VarID Length (8 char / 32 char)

This parameter is available from XFile version 2.00. It specifies the VarID length:

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

VarID Format (Ascii / Binary)

This parameter is available from XFile version 2.00. It 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 Gigabit network. However, the following operations are still performed through the XNet: Publish, Grab, Backup 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

From XFile v.2.00, 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 mode.

PREDEFINED CONFIGURATION

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:

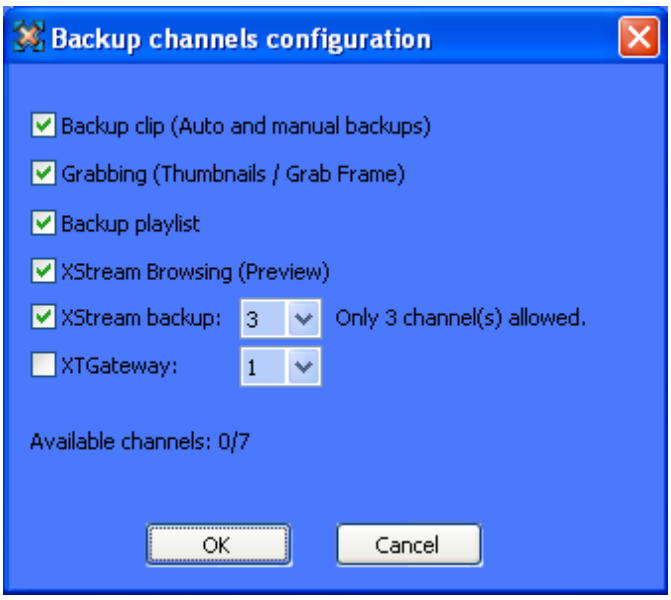
- 6 channels for train backup (XStream)
- 1 channel for browsing in XStream

Important

As this configuration does not provide clip and playlist backups, nor grabs, no thumbnails will be available for clips in the IP Director 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.

XT Gateway

Selecting this check box will enable connections with CleanEdit.

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 to 7.

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 XT Gateway.

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.

The channels assigned to the XStream backup have priority over the ones assigned to the XT Gateway.

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 (SINGLE DISK / DUAL DISK)

Option	Description
Single Disk	 Only one disk is used
Dual Disk	 When the first disk is full, the system automatically switches to the second disk.
	 The same clips are saved to both disks at the same time (Mirroring)

Refer to section 'Disk Writing Mode' on page 36 for additional information.

PATH A / B

This specifies the destination to save the MXF files. Depending on the Disk mode selection, one or two paths is/are active for modifications.

Important

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.

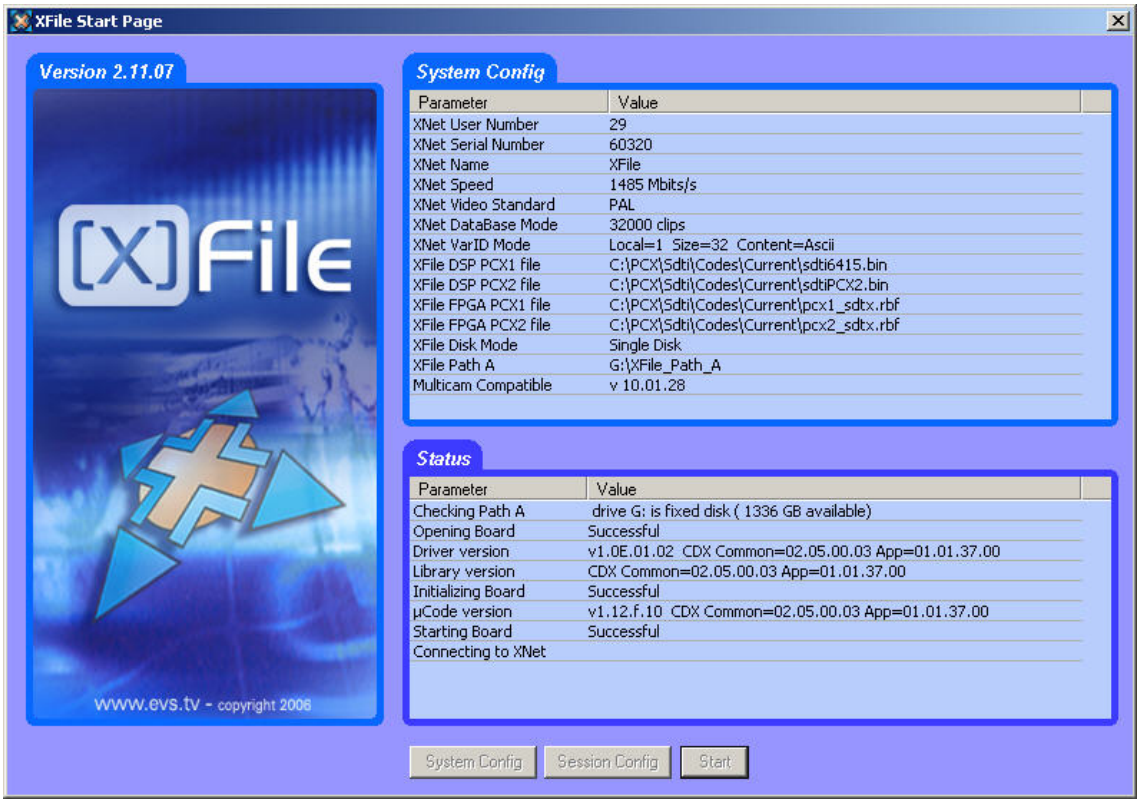
To avoid long scanning process at startup, we advise the clips to be distributed over different paths.

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

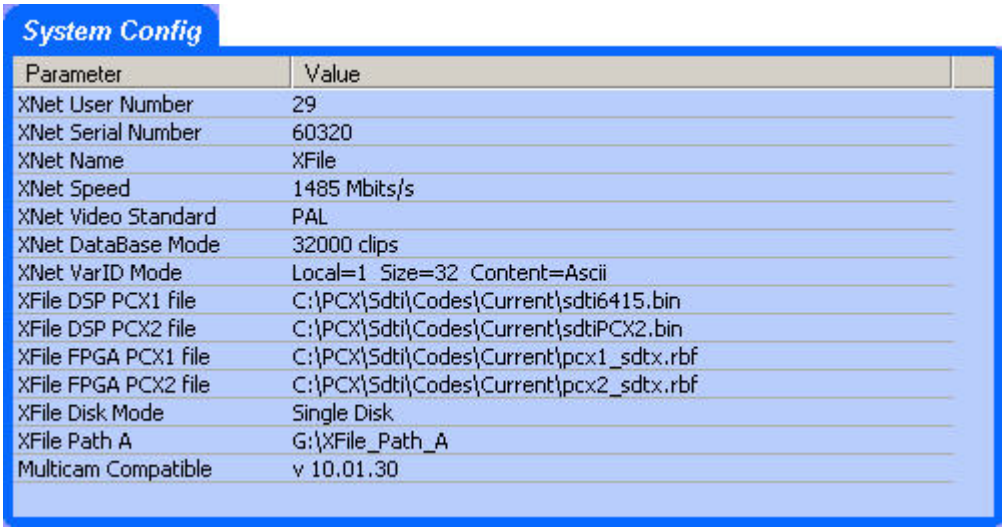


At first start the upper part of the window displays:

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.



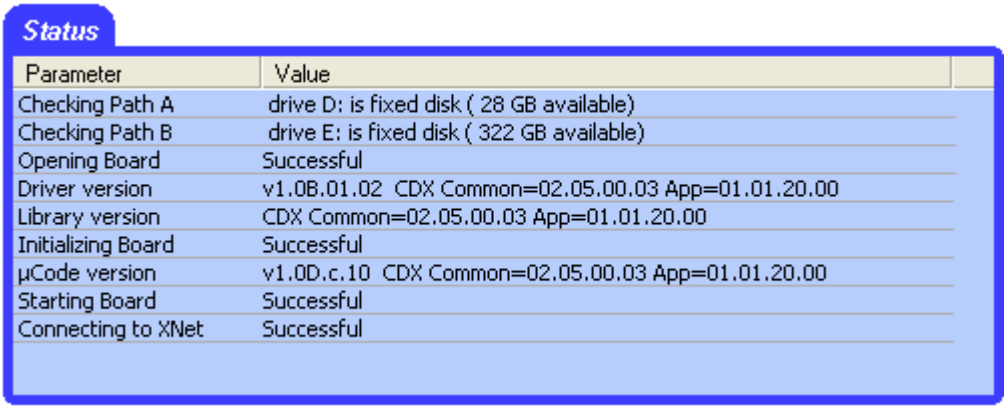
If the values are coherent, press START: the System Config field is replaced by the Session Config field.

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.

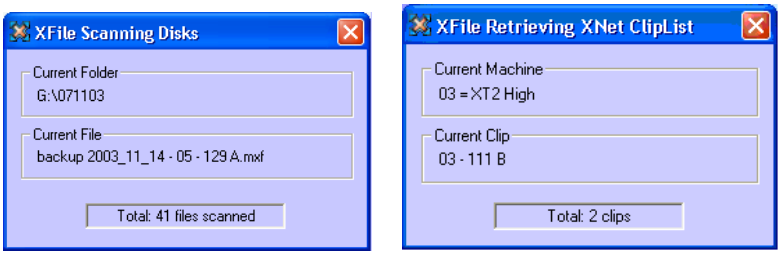


The last test is the connection to the XNet. If this stage is successful, the XFile is ready to operate.

Press 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.

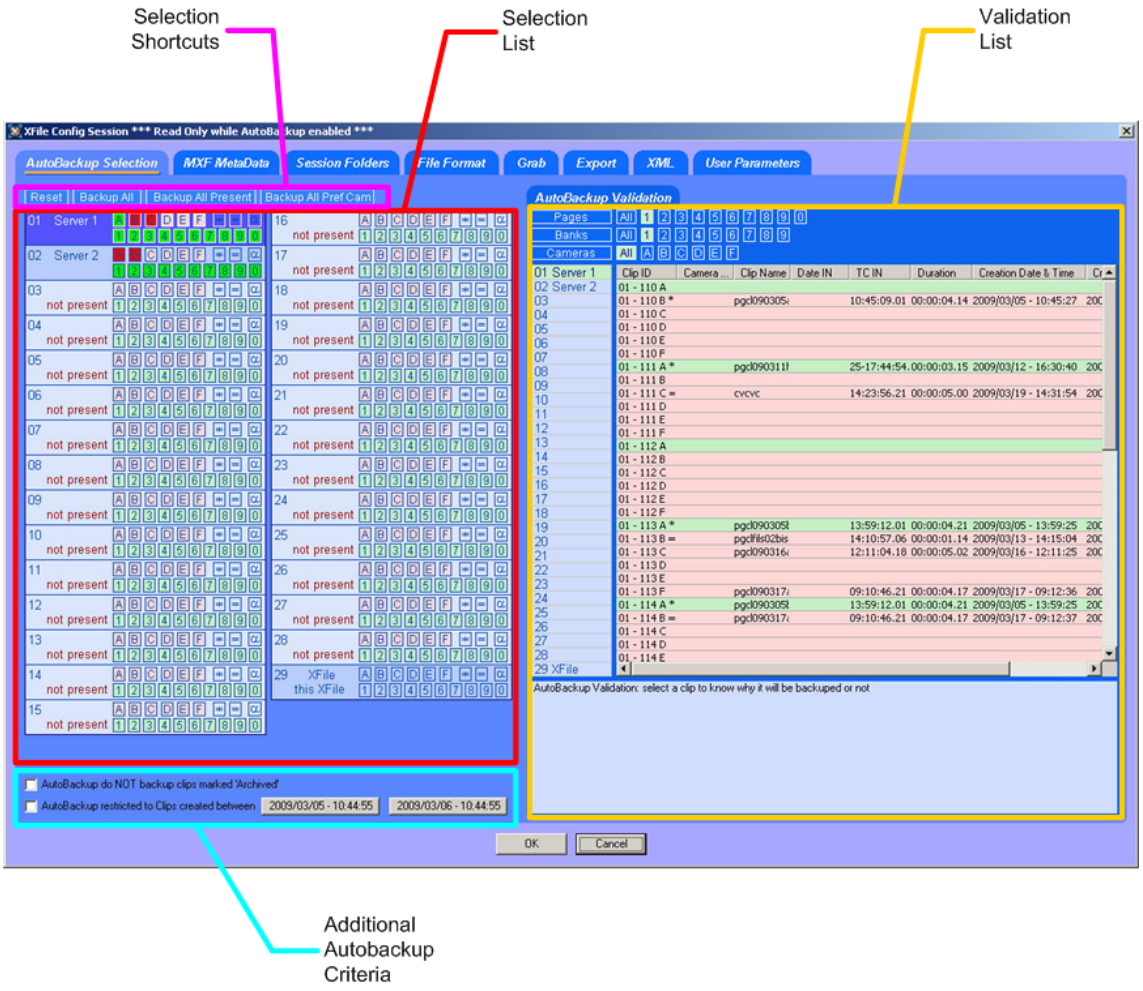
The session configuration window is divided into 7 tabs:

1. AutoBackup Selection tab
2. MXF Metadata
3. Session Folders
4. File Format
5. Grab
6. Export
7. XML
8. User Parameters

3.3.1 TAB 1 - AUTOBACKUP SELECTION

The Autobackup Selection tab includes several areas:

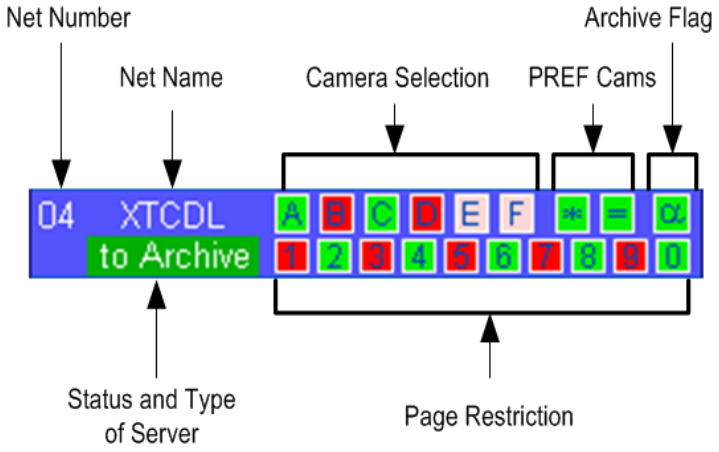
- Selection list
- Selection shortcuts
- Additional autobackup criteria
- Validation list



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.



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 colour code used for camera selection is the following:

Background colour	Meaning
Bright red	Camera available and not selected
Bright green	Camera available and selected
Pale red	Camera not available and not selected
Page 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 colour code used for the PREF Cams flag, as well as for the Archive flag, is the following:

Background colour	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 XT[2] 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 colour code used for page restriction is the following:

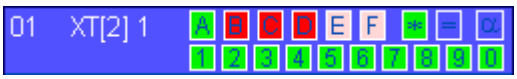
Background colour	Meaning
Green	Selected page
Red	Deselected page

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:



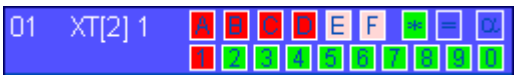
If you select CAM A and * (first preferential camera), the following clips will be included in the autobackup:

- 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 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 red background.
5. Press OK to confirm the selection and to close the XFile Config Session window.
6. Press 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 be also 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

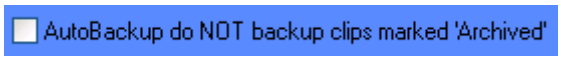
Archive status

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 backup a complete session, 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 XT[2] server. (see Multicam documentation for complete information).

   The 

   label appears on the line of the XT[2] server if the 'DEFAULT XFILE' has been correctly defined.

3. Activate the AUTOBACKUP by pressing the 

   button in the XFile main window.

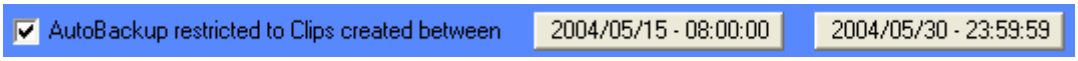
Note

The **Default XFile** setting allows the user to initiate the backup of a clip from the XT[2] server via the >ARCHIVE command (see Multicam documentation for details).

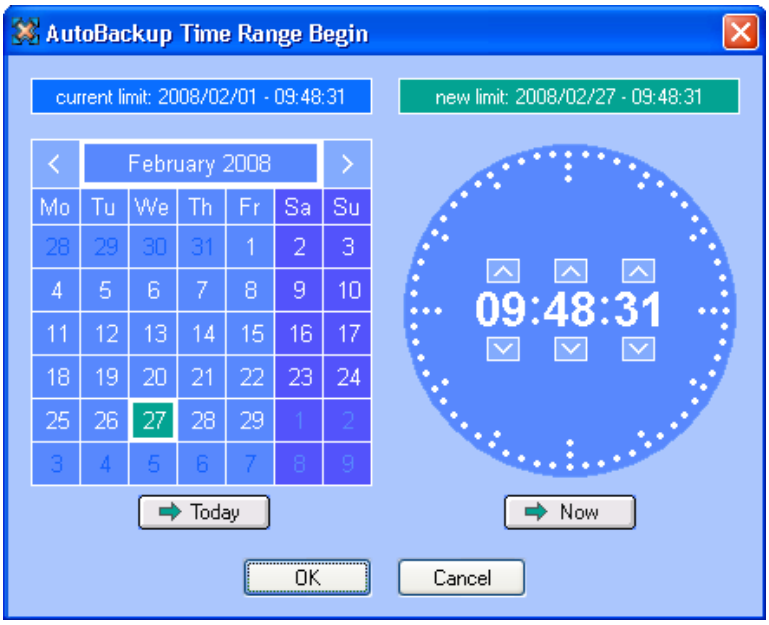
The **Archive Flag** also initiates the backup of a clip as requested by the >ARCHIVE command even if the **Default XFile** is not set, but the Archive status on the XT[2] server is not updated.

Time Range

The autobackup session can be defined for a specific duration.



Select the check-box to activate the time range filter and press 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.

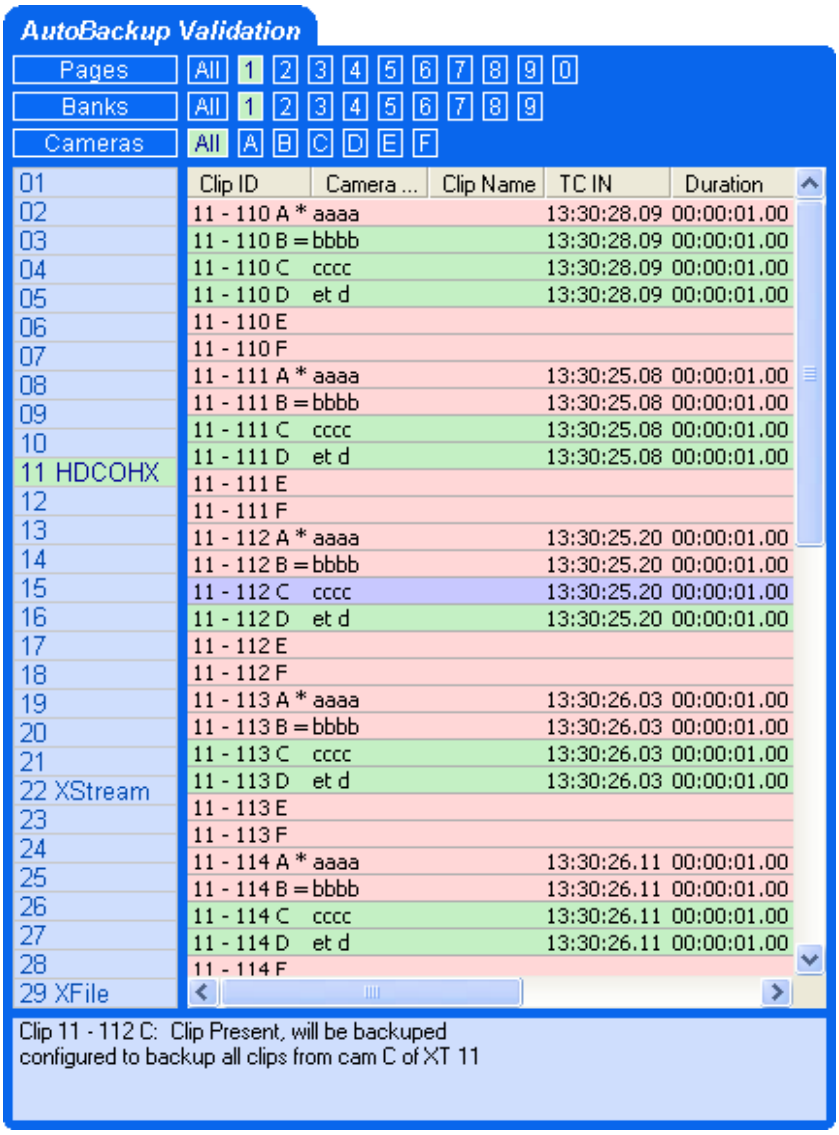
3. Press ENTER to confirm your selection.

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.

VALIDATION LIST

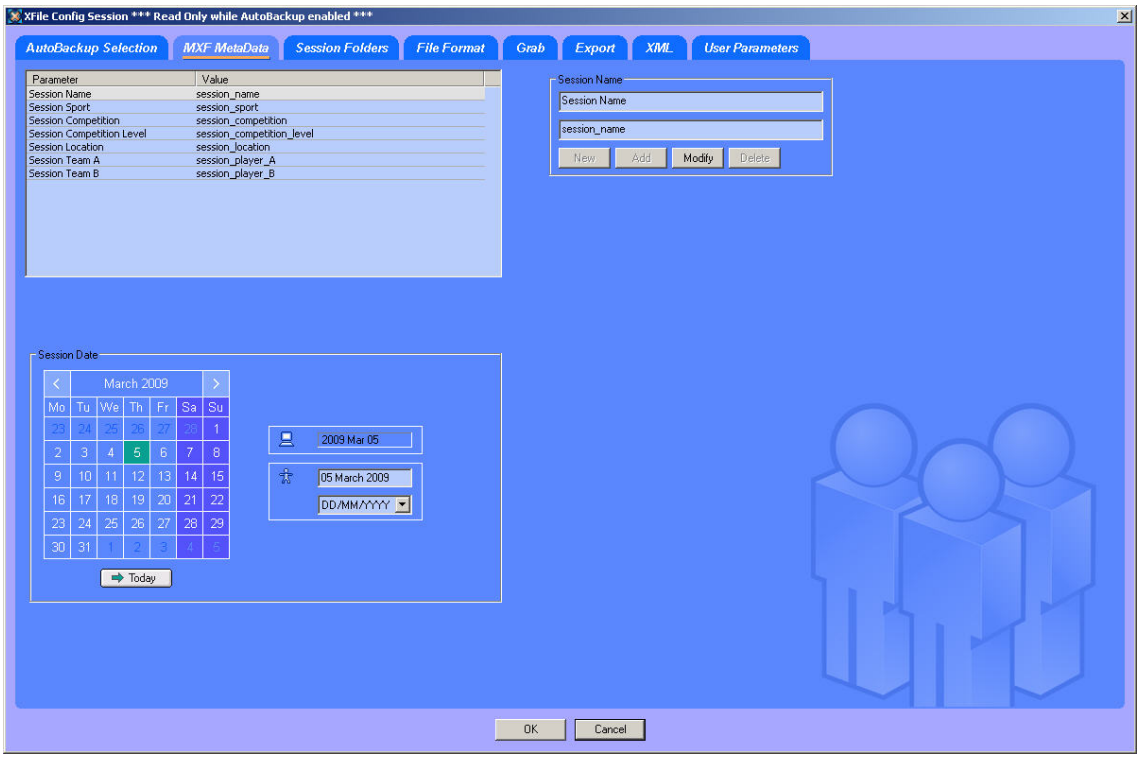
In the right area, the Autobackup Validation list displays the current selection of Autobackup.



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. Press the **Modify** button to confirm the changes.

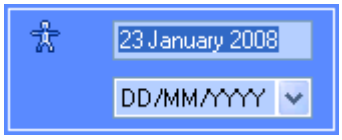
HOW TO DEFINE A USER SESSION DATE

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:

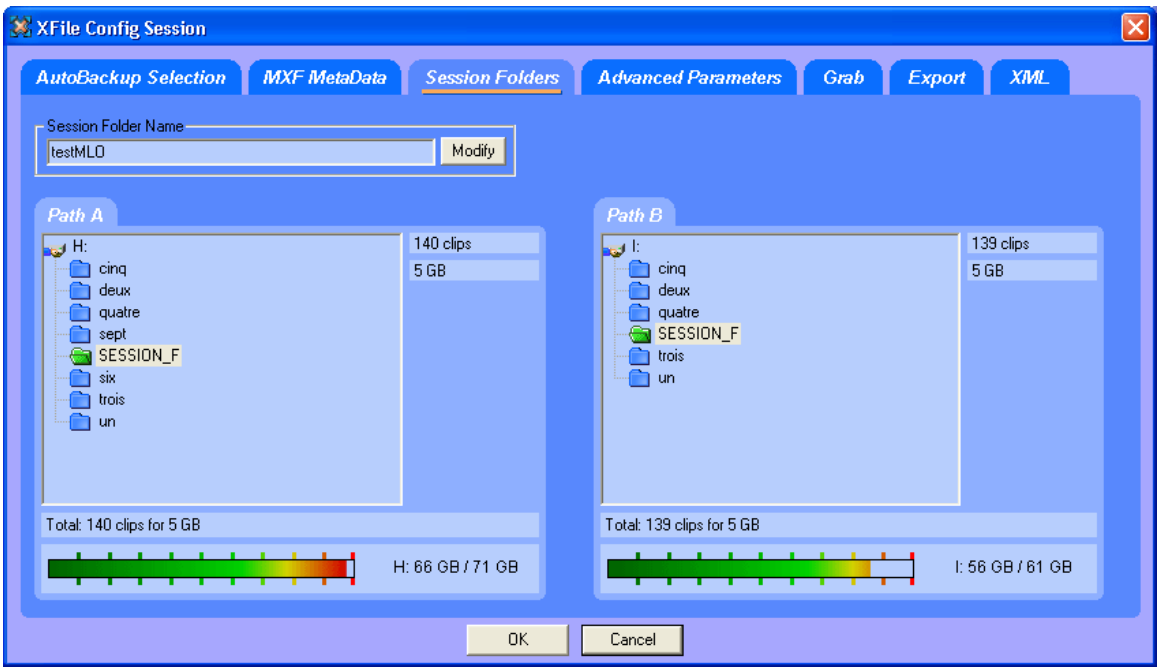


2. If you want to define a date as user session date, select the date in the calendar and select the date format in the drop-down list below the User Session Date field.

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 – XFILE SESSION FOLDERS



Session Folder

It specifies the folder destination to save the MXF files.

Important

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

Note

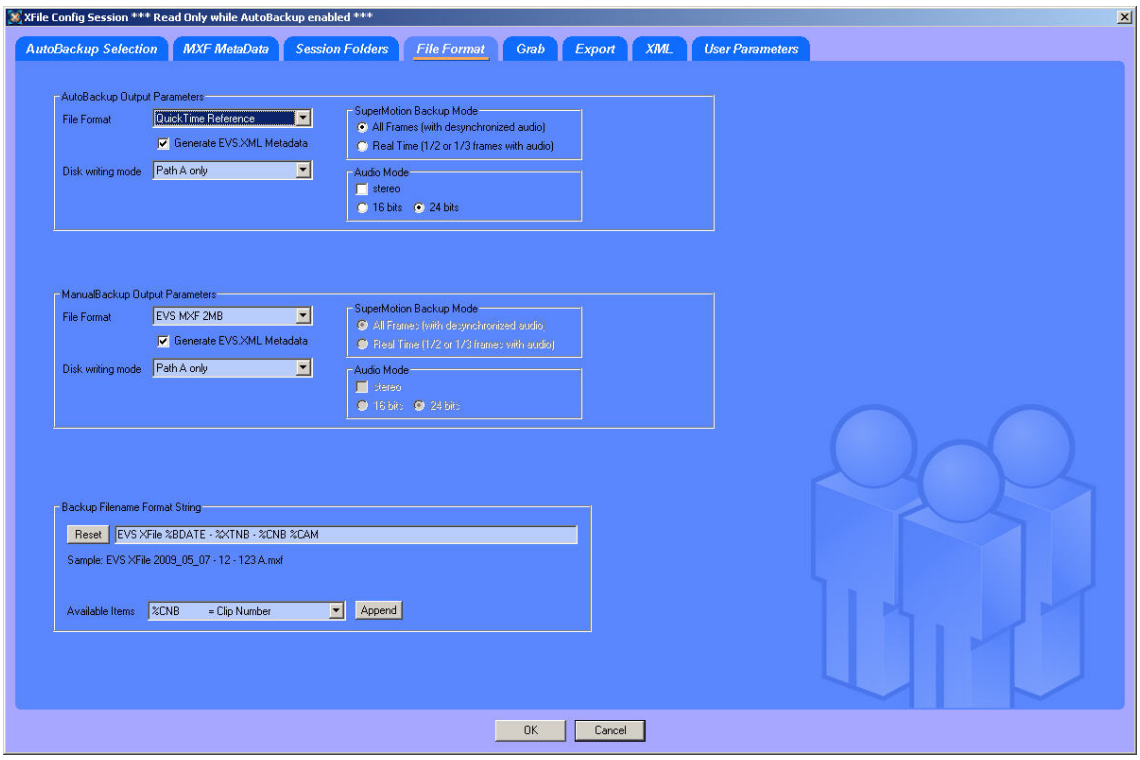
In dual disk mode, when the first disk is full, the system automatically switches to the second disk in the same folder.

The session folder selection can be modified during operation.

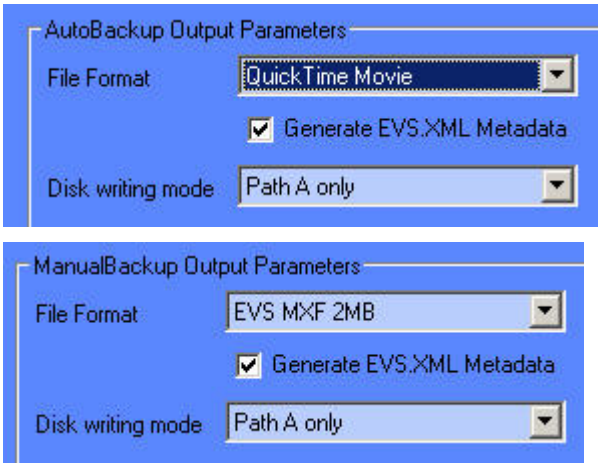
Clicking on a folder displays the number of clips and the capacity of this folder. The total number of clips, the capacity and the remaining capacity are displayed in the lower part of the window for each path.

The current Session Folder is always represented by a green icon.

3.3.4 TAB 4 – FILE FORMAT



Parameters for Output File Format



The two following settings make it possible, in a Single Disk configuration, to choose the format in which the backup file will be generated.

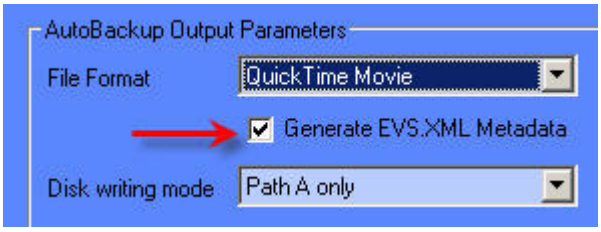
The AutoBackup Output Parameters > File Format drop-down list allows the user to select the default file format for the clips backed up with the autobackup process.

The 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.

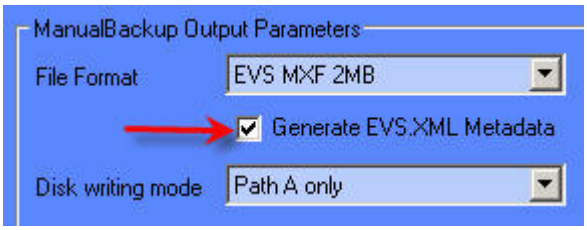
In both cases, the following formats are available:

- EVS MXF 2 MB
- MXF OP1a
- Quick Time Movie
- Quick Time Reference
- Avid TM
- CleanEdit Reference
- Avid MXF OPAtom

Parameters for 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.



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.

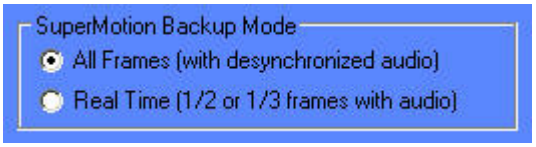
In both cases, the clips are saved in the same folder as the backup file. It has the same name as the backup file, followed by the <.evs.xml> extension.

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. However, the MXF header of the EVS MXF file remains the reference for the metadata and has priority on the XML file. This means that a change made on EVS MXF metadata, for example in Edit Clip module, is reflected in the XML file. But, a change of the metadata in the XML file will not be reflected in the EVS MXF file.

Important

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.

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 TM.

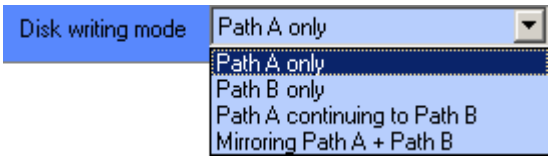
The selected option will be reflected in the Media Info tab of the Maintenance Mode window. Nb Videos = 1 (Real Time) or 3 (All Frames). Refer to section 3.9.2 ‘Media Info Area’ on page 89.

Audio Mode

Selecting the Stereo option results in grouping XT’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.

Disk Writing Mode



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

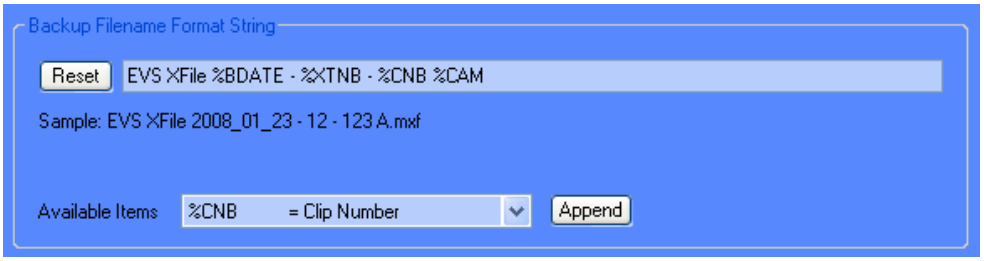
In Single Disk mode, only one path (Path A) will be available in the list.

In Dual Disk mode, the system can

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

Option	Description
Single Disk 	Only one disk is used
Dual Disk - continuing 	When the first disk is full, the system automatically switches to the second disk
Mirroring 	The same clips are saved to both disks at the same time.

Backup Filename Format String



The default filename automatically given to the MXF file is

EVS XFILE <creation date> - <XT number> - <clip number> <cam name>. mxf

The MXF filename is user-defined and can be modified as described in section 'How to Modify the Default Filename Format String', on page 37.

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

How to Modify the Default Filename Format String

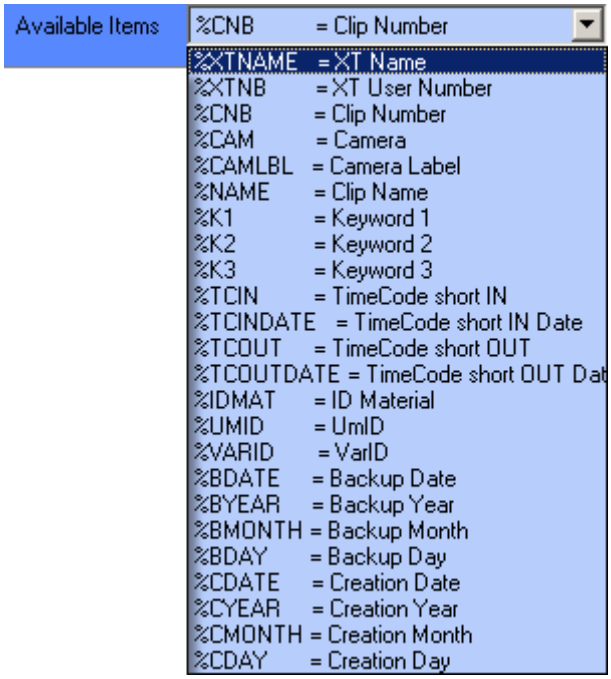
To modify this default format string, proceed as follows:

1. Select the format for which the filename string should be modified: EVS MXF, IMX OP1a, Quick Time or AVID via Transfer Manager.

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:

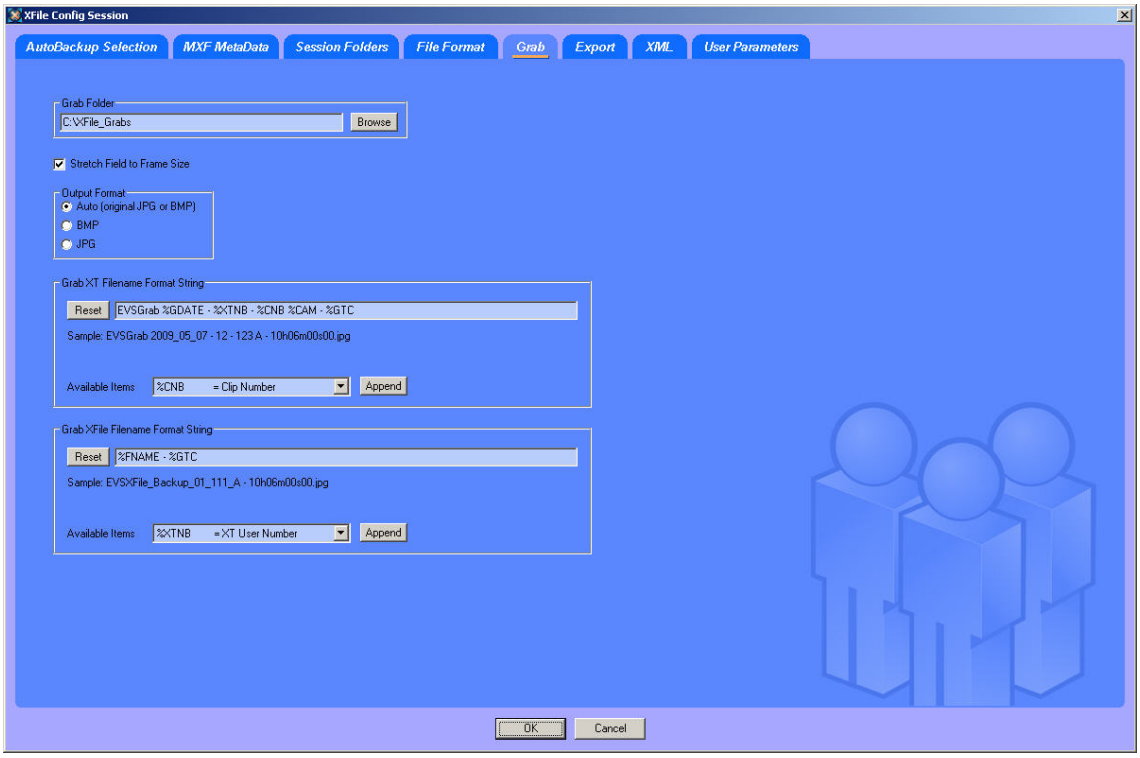


5. Click the **APPEND** button to add the selected item at the end of the Filename string.

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.

3.3.5 TAB 5 – GRAB



The Multicam operator from his remote control panel is 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

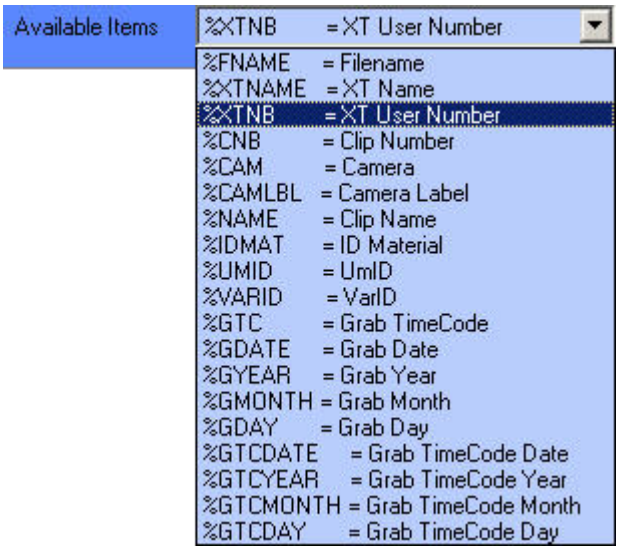
No compression artifact is added to this file creation process, so the original quality of the image is kept.

Grab XT/XFILE Filename Format String

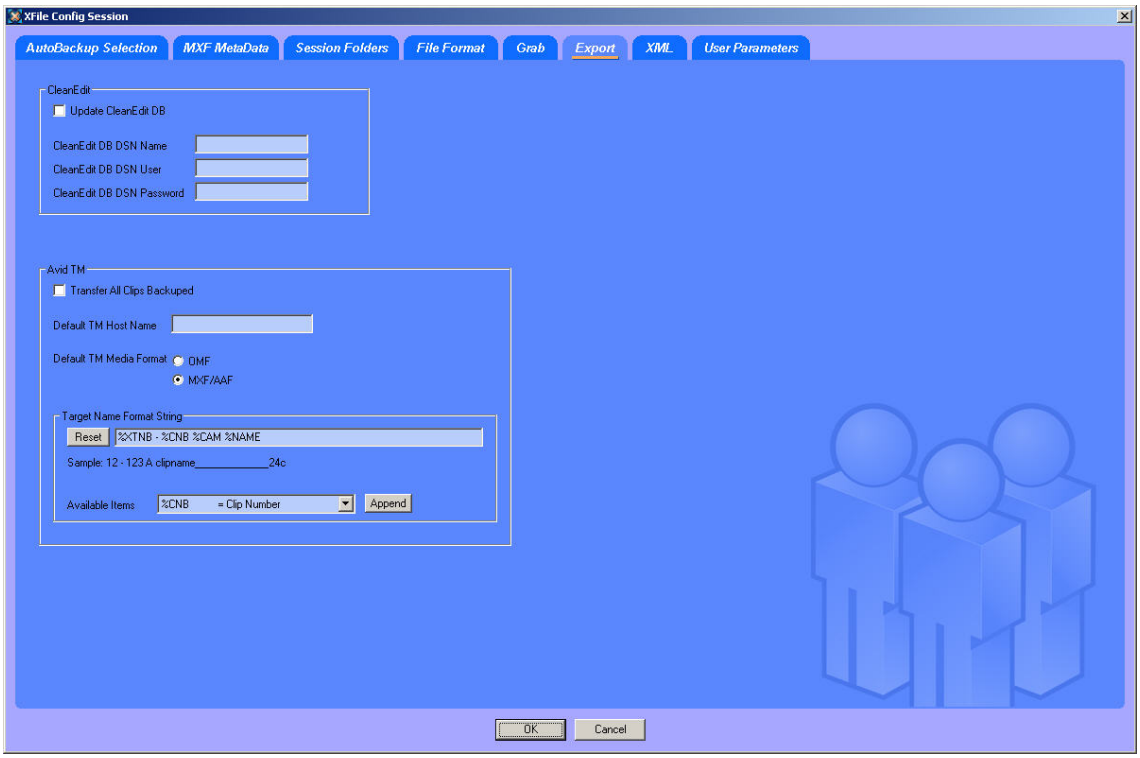
The default filename automatically given to the JPG/BMP file is EVSGRAB_date_clip number_time code. jpg/bmp

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 37.

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



3.3.6 TAB 6 – EXPORT



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

CleanEdit

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

Please refer to the CleanEdit documentation for more details.

Avid TM

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

Transfer All Clips Backuped

To transfer all clips that are backed up in XFile and XStream, select the

Transfer All Clips Backuped check box.

Default TM Host Name

Enter the host name of the default Avid Transfer Manager in this field.

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

Default TM Media Format

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

The following formats are available:

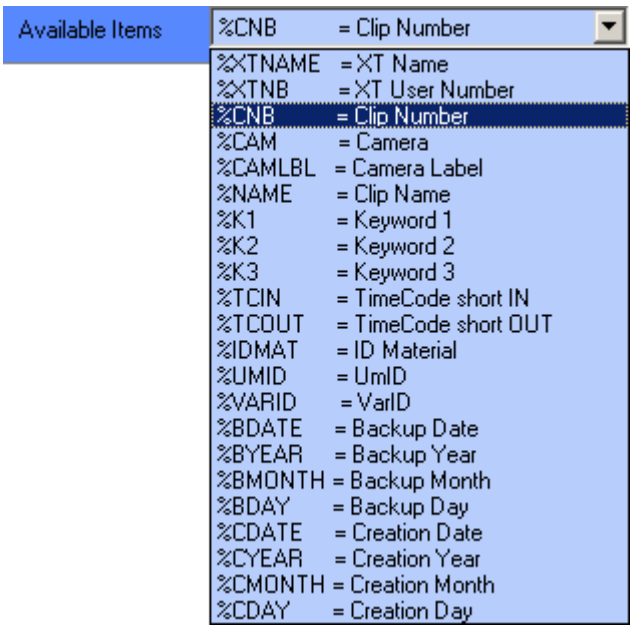
- OMF
- MXF/AAF

Target Name Format String

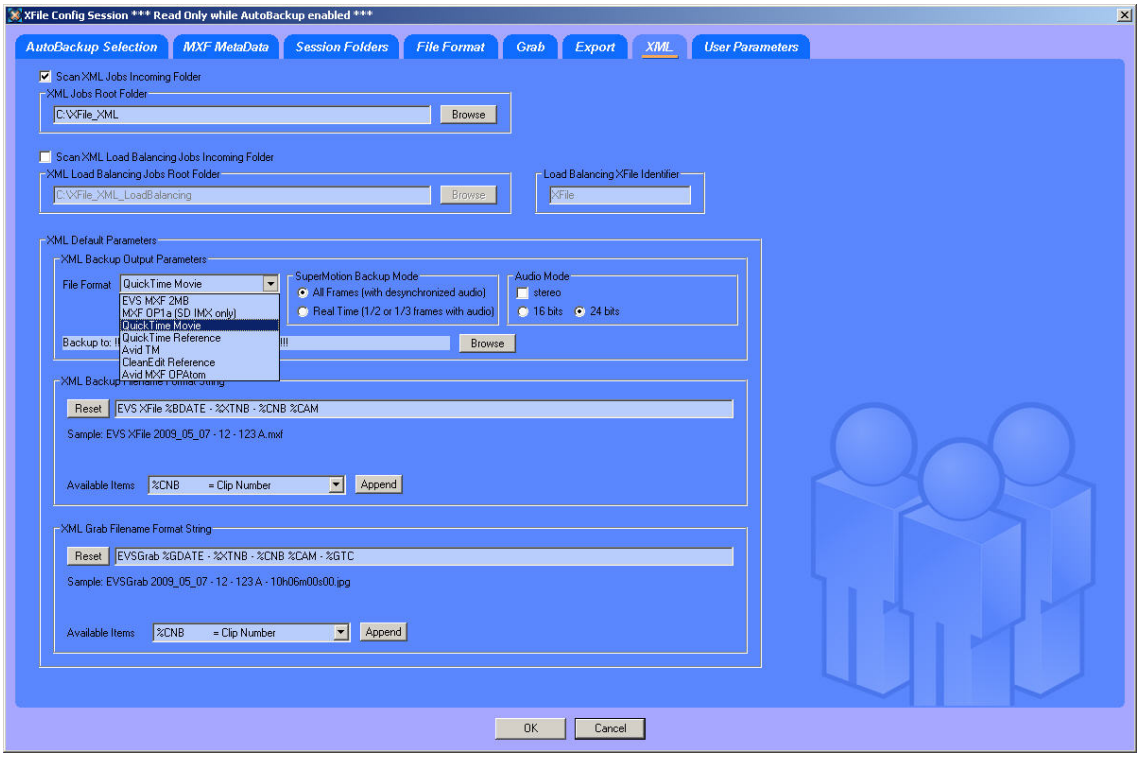
A default filename is automatically given to the target file.

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 37.

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 Jobs Root Folder

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

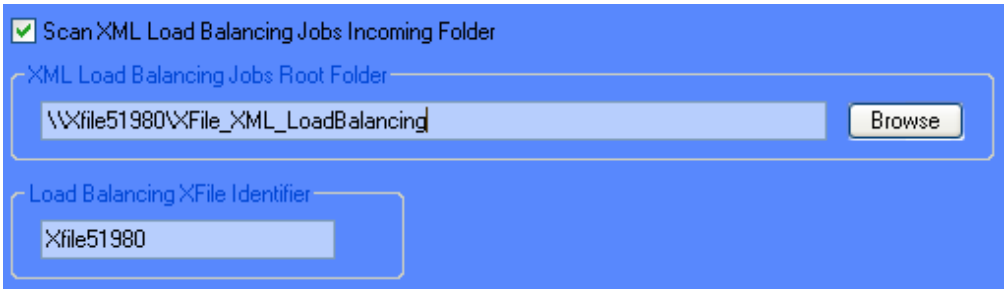
To use this option, proceed as follows:

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 XFiles. In this case, all XML files are stored in a single folder on the network. All XFiles scan this folder and the jobs are distributed among the various XFiles, depending on their availability.

When using the **XML Load Balancing Jobs Root Folder** option, all XFiles 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 XT[2] 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 XT[2] 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.

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. In this format, the metadata is included in the media file itself.

The SuperMotion Backup Mode allows the user to select the backup mode for SSLM clips. Refer to section 'Super Motion Backup Mode' on page 35 for more information.

The Audio Mode allows the user to group XT's mono channels in stereo channels and to down convert samples from 24 bits to 16 bits.

XML Backup Filename Format String

This default filename is user-defined and can be modified by typing a generic term 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 37.

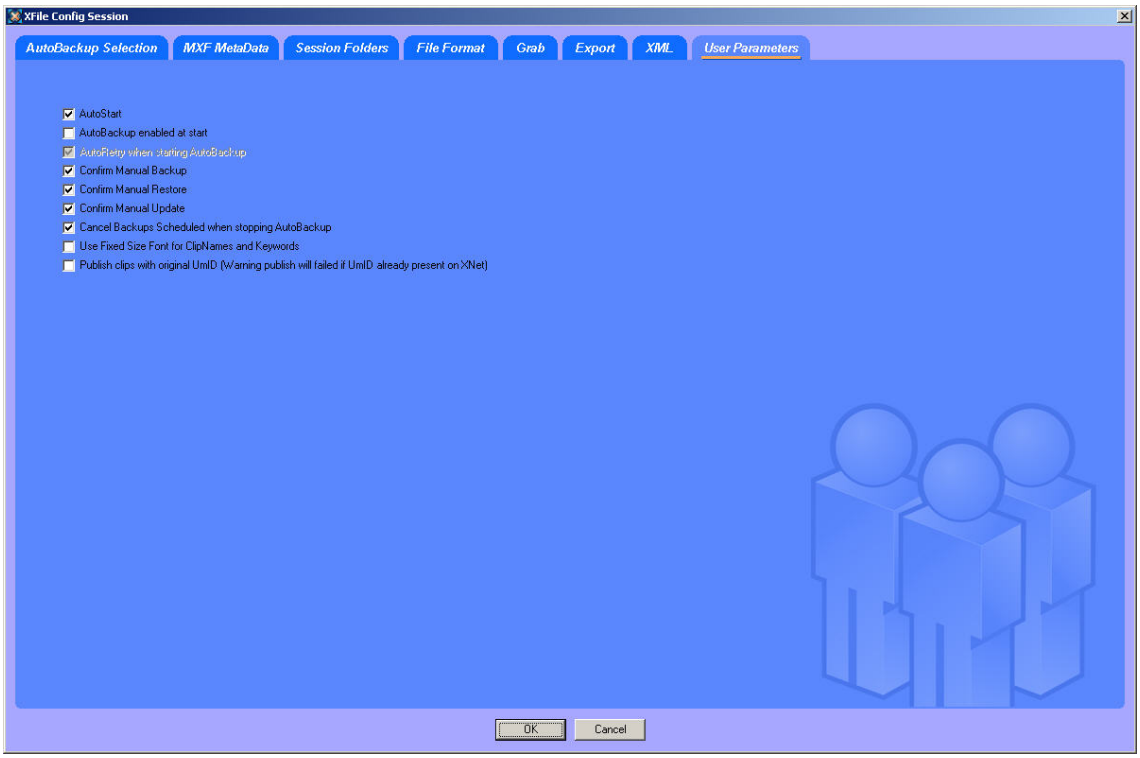
The user can reset the default filename by clicking the RESET button.

XML Grab Filename Format String

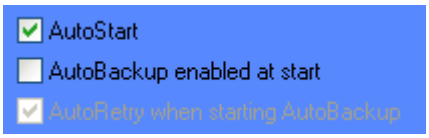
This default filename is user-defined and can be modified by typing a generic term and/or by adding one or many available items (See screenshot below). See also section 'How to Modify the Default Filename Format String', on page 37.

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

3.3.8 TAB 8 – USER PARAMETERS



Parameters for Automatic Processes



Autostart

This option automatically starts the XFILE software.

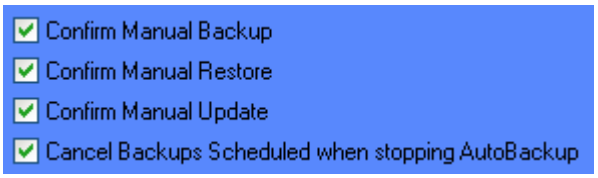
Autobackup at Startup

This option automatically starts the autobackup mode at startup.

AutoRetry when Starting Autobackup

This option is disabled in version 1.09.00.

Parameters for Confirmation Messages



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.

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.

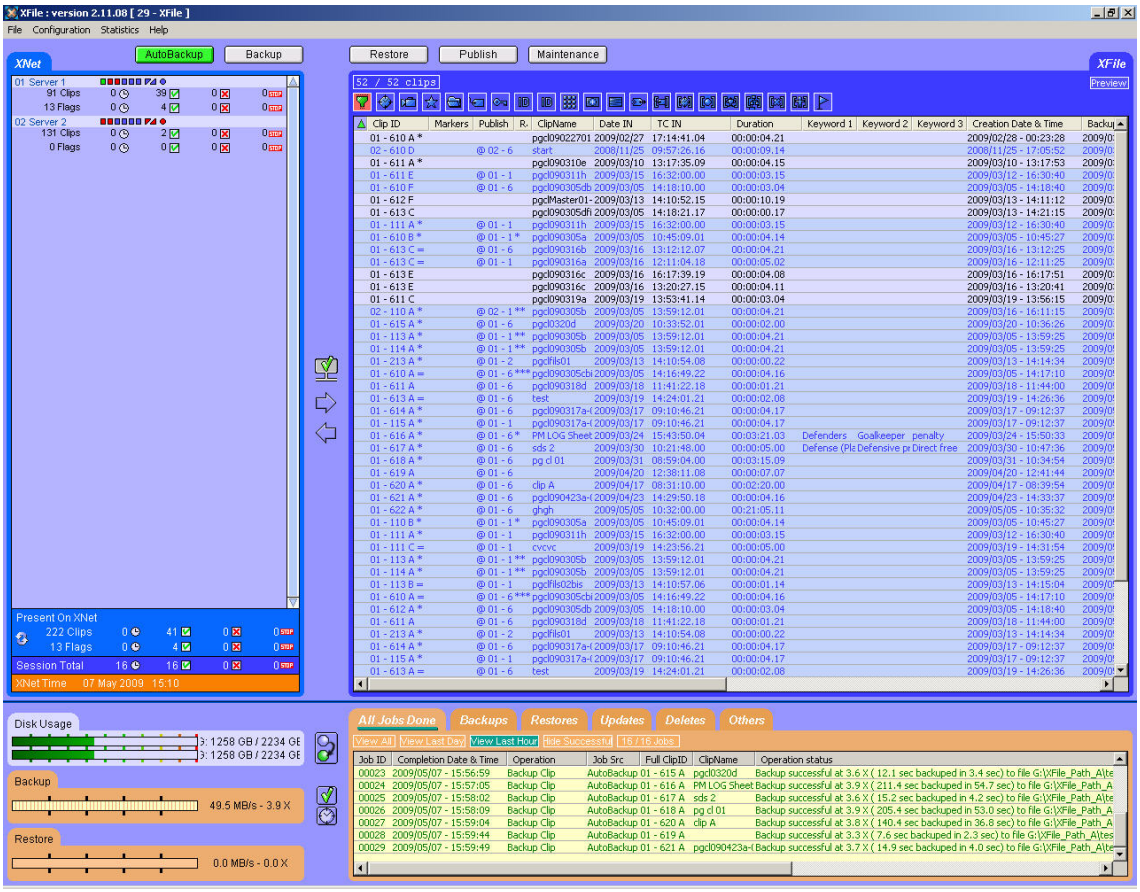
Parameter for Publish

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

Enables to preserve the clips UmID in Publish mode.

3.4 AUTOBACKUP MODE

Press 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.

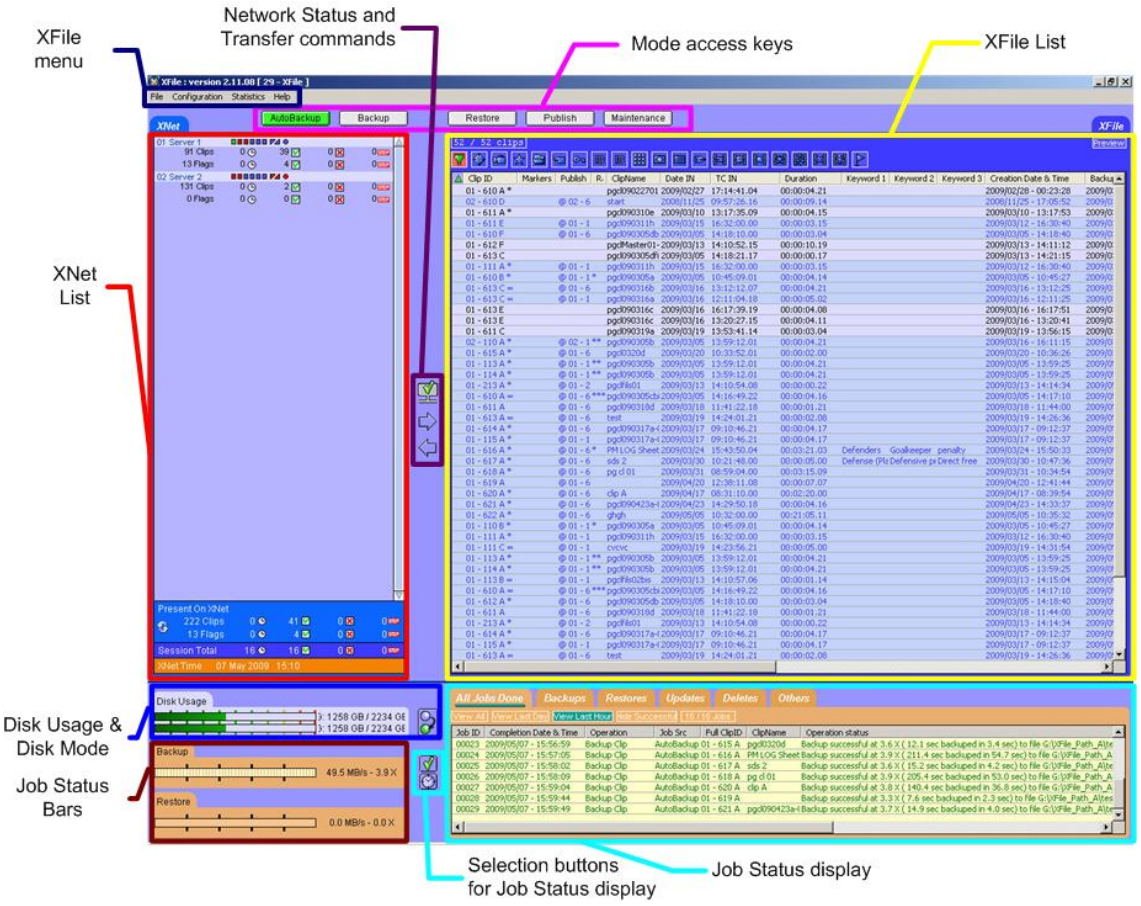
Note

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

3.4.1 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.

The screenshot below shows the various areas. Most of these areas are similar in the other modes.



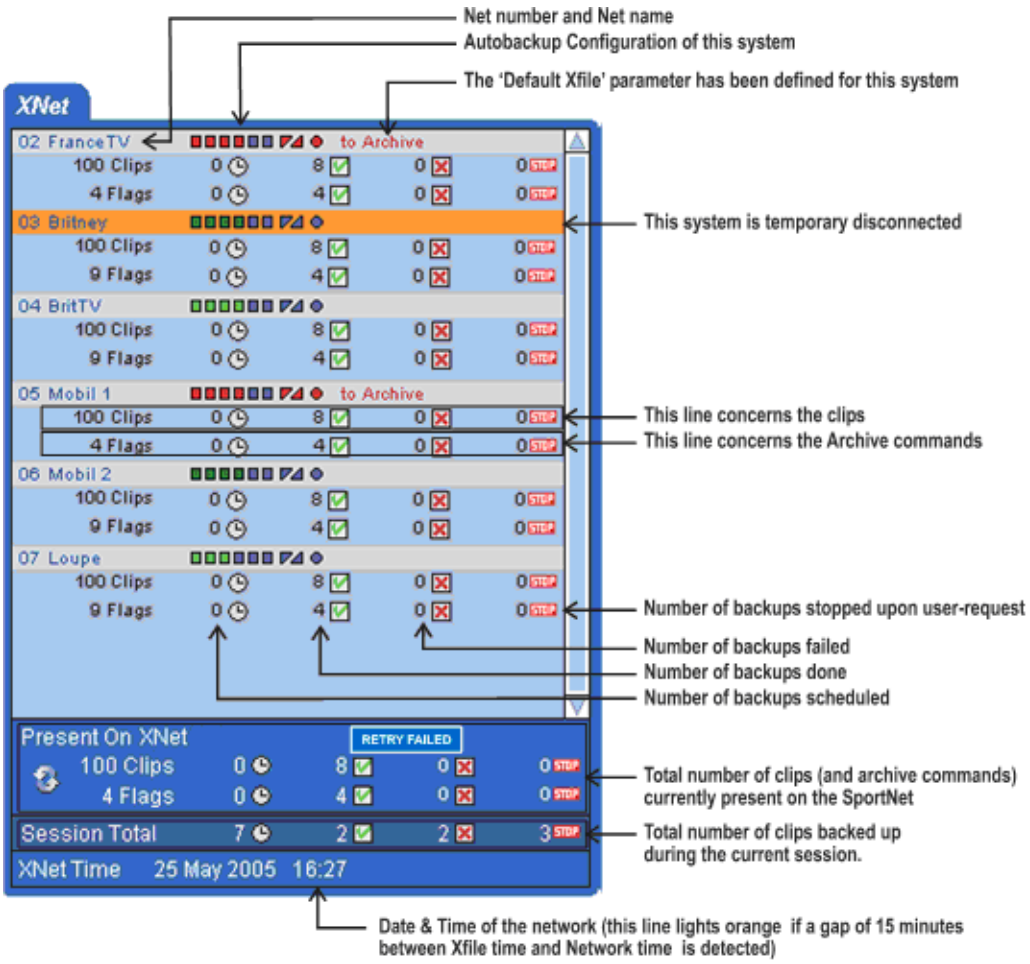
3.4.2 XNET LIST

The XNet tab has two possible display modes. It shows:

- the clips available on the XNet depending on the selected criteria (see screenshot above)

  OR

- an overview on the autobackup criteria and on the clip backup information (see screenshot below).



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.

3.4.3 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 icons make it possible to filter the list of clips displayed in the XFile List.
- Below the filter icons, 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 XT[2] 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
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 XT[2] 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.
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.*
Filename	Displays the format of the name of the backup file that includes the clip. The possible values are: • EVS_MXF • MXF OP1a • QuickTime Movie • QuickTime Reference • AVID MXF OPAtom
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.

3.4.4 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

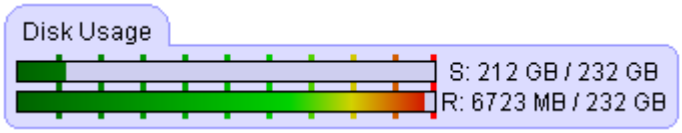
Connection to XNet failed

Local hardware failure has been detected

Standalone mode

3.4.5 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:

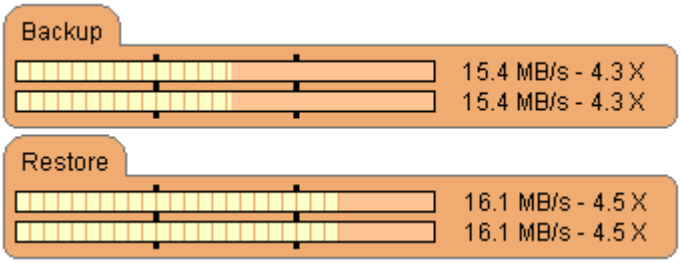
Single Disk

Dual Disk

Mirroring

3.4.6 STATUS AREA

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



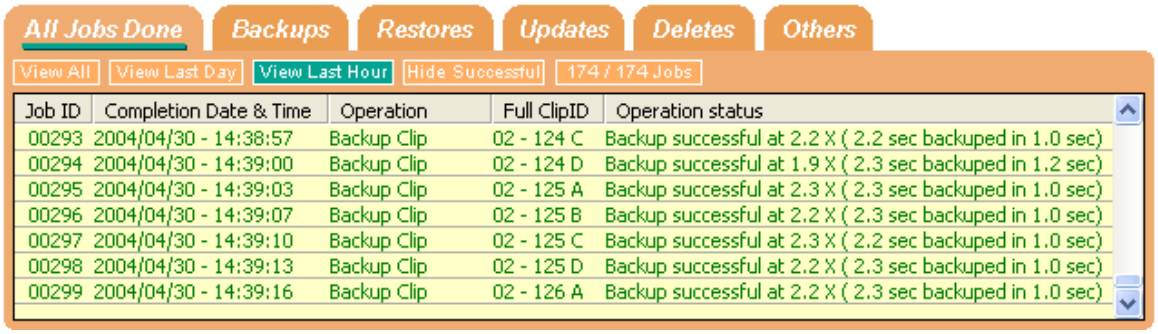
Depending on the operations in progress, the operator has the choice between two status displays:

 Toggle to 'Jobs done' display

 Toggle to ' Scheduled jobs' display

JOBS DONE STATUS DISPLAY

The different operations are divided into different tabs.

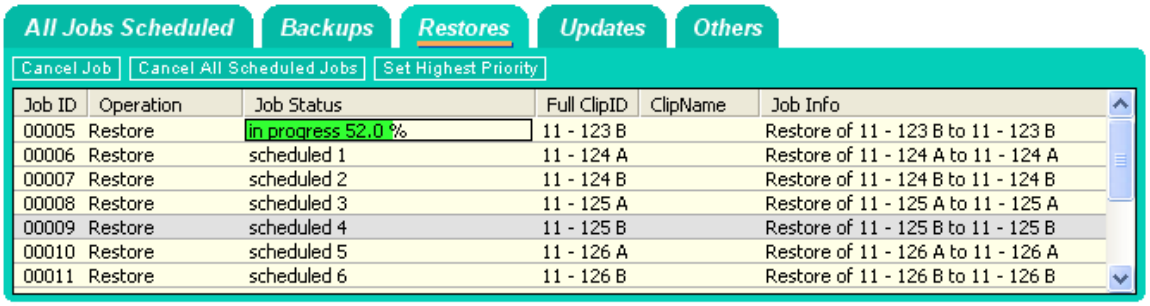


Use these filters to refine the selection:

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.

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 press 'Cancel job', or press '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

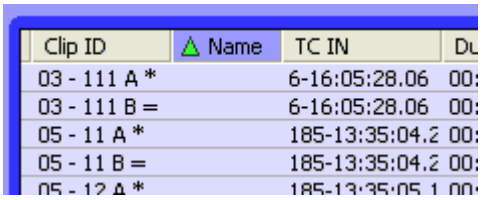
From the 'Backups' and 'restores' tabs, the order of operations can be modified. Select one job in the list and press:

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

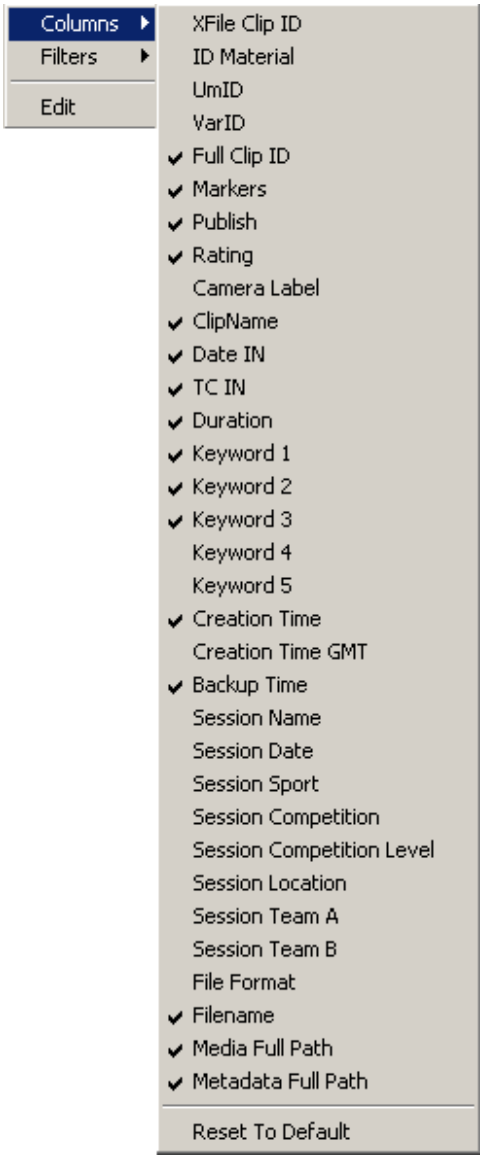
3.4.7 REFINING THE SELECTION IN THE XFILE LIST

SORTING CLIPS

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



DEFINING COLUMNS



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

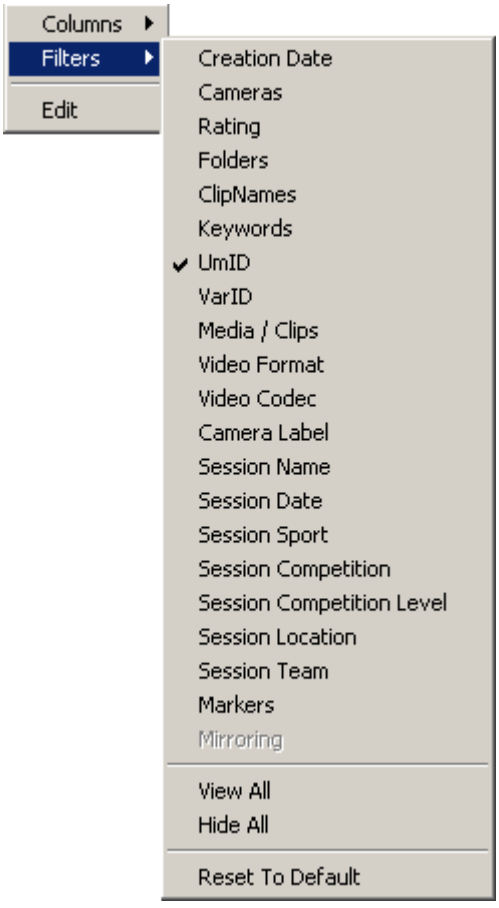
The upper part of the XFile list displays a list of icons. These buttons give access to the different filters to be applied to the XFile list.

The filters are available in the four modes: Autobackup, Manual Backup, Restore 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.



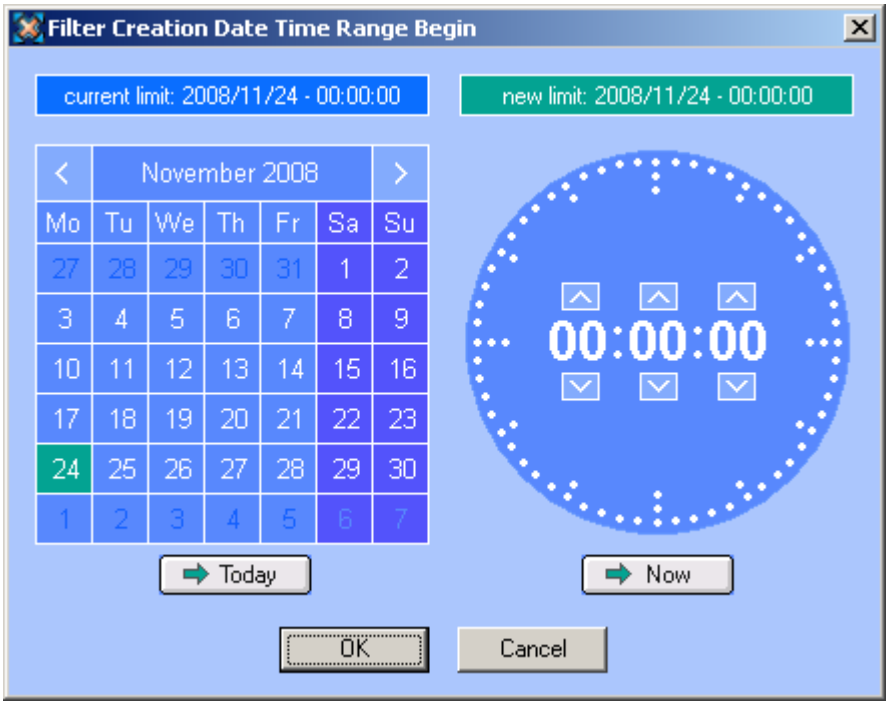
Creation date

Note

The Creation date and the backup time are different values. The creation date depends on the date and time defined on your XT[2] 6U, XT[2] 4U, AirBox or SpotBox. 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

   - Press 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

   - Press 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 squares representing the cameras and/or the PREF cameras of the clips to be displayed in the XFile list. Selected cameras appear in a green square.

Rating

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

Folders

The notion of Session Folder is important to adapt the folders organization and to understand what is displayed ultimately in the XFile list.

The Session folder is created for the autobackup process. All clips created on the XNet, and according to the autobackup criteria, are saved to this session folder.

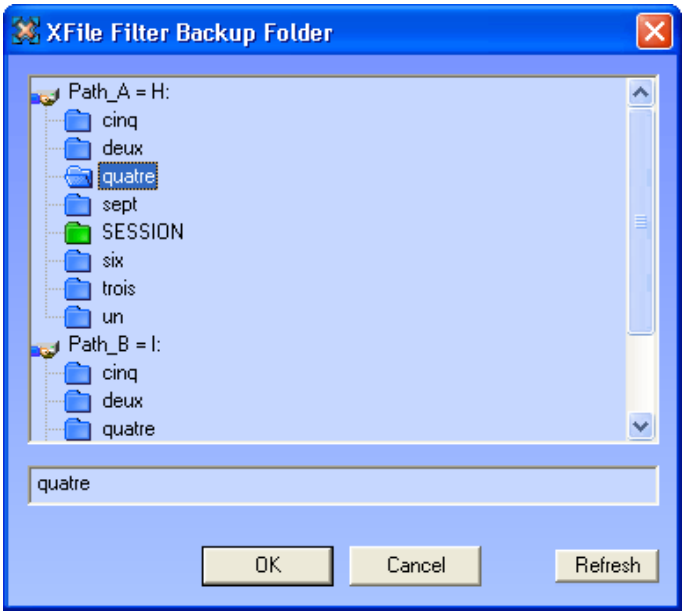
In Autobackup mode, the Folders filter displays this selection:

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

Independently, 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.

In Backup mode, the Folders filter displays this selection:

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



The following rules apply to the selections to the Backup Folder selection:

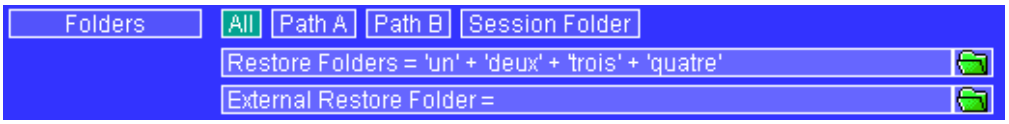
- Only one folder can be selected at a time.
- The current Session Folder always lights green in the list.
- If a new folder does not appear in the list, press the 'Refresh' button to update the display.
- The user must double-click a folder to select it for use in the filter. This

folder will appear in the Name bar at the bottom of the window if it has been correctly selected.

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.

As per the Backup Folder in an independent way, multiple Restore folders can be defined for displaying the clips to be restored on the XNet.

In Restore mode, the Folders filter displays this selection:

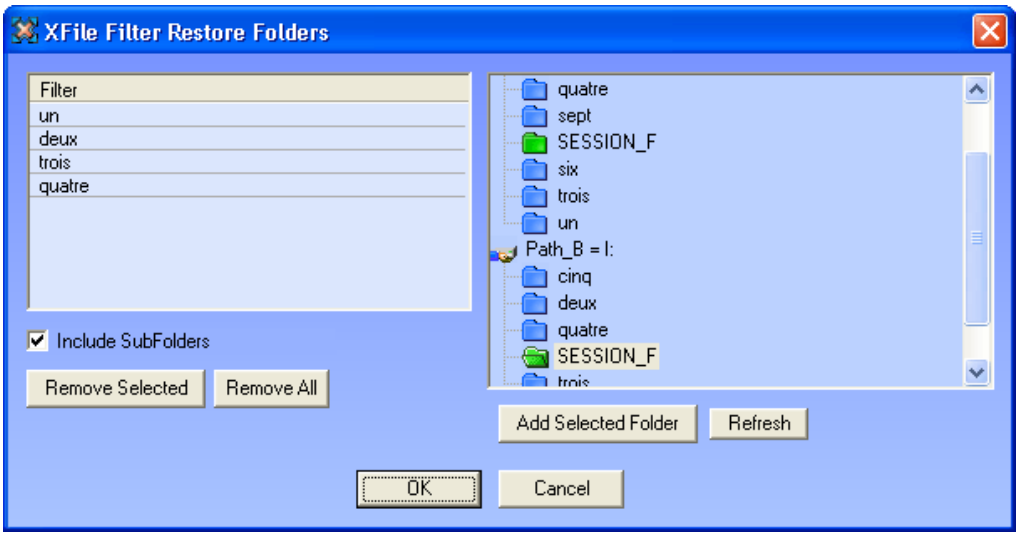


The difference between 'Restore Folders and 'External Restore Folder' depends on the folders and sub-folders included in the PATH.

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' can be an external disk or 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 icon 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 press 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, press the Remove selected button.
- To remove all folders from the Filter list, press the **Remove All** button.
- Press OK to confirm your selection and quit the dialog box. The folders appear in the **Filter** field, in the main XFile window.

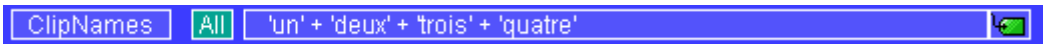
In the **External Restore Folder** field, clicking on the **Folder** icon on the right side opens the following dialog box:

Only one folder is available for selection. This folder cannot be included into the PATH A or the PATH B.

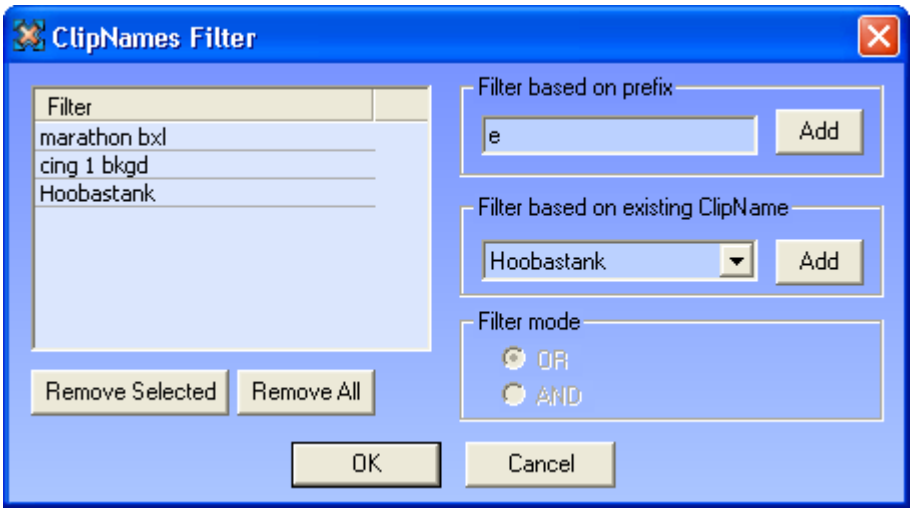
Click on one folder, press OK to confirm your selection and to quit the dialog box. The label of the selected folder appears in the **Filter** field.

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

Clipnames



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 clipname.

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 clipnames in the Filter list.

Filter Based on Existing Clipname

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

Select a clipname from the list and press **Add** to fill out the filter list.

Note

The number of clipnames/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 press **Remove Selected** to cancel the selection of this clipname.

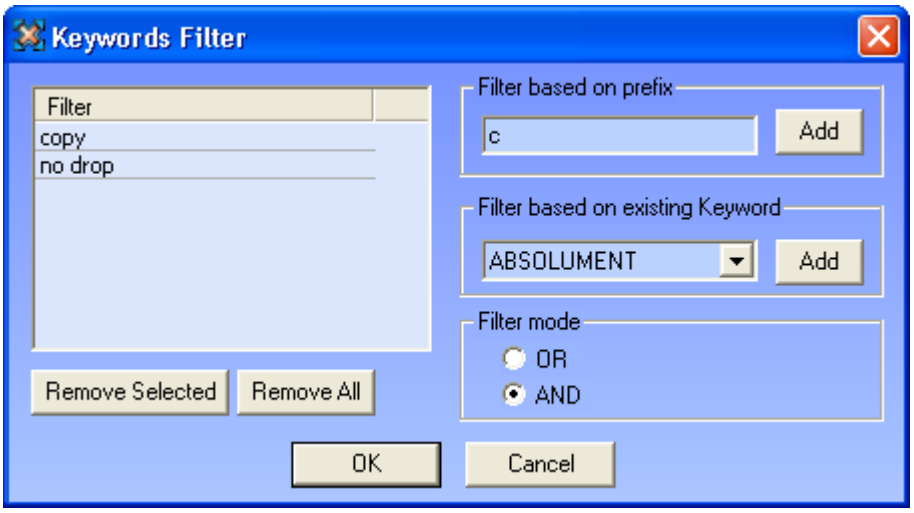
OK/Cancel

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

Press **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 press **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 press **Remove selected** to cancel the selection of this keyword.

OK / Cancel

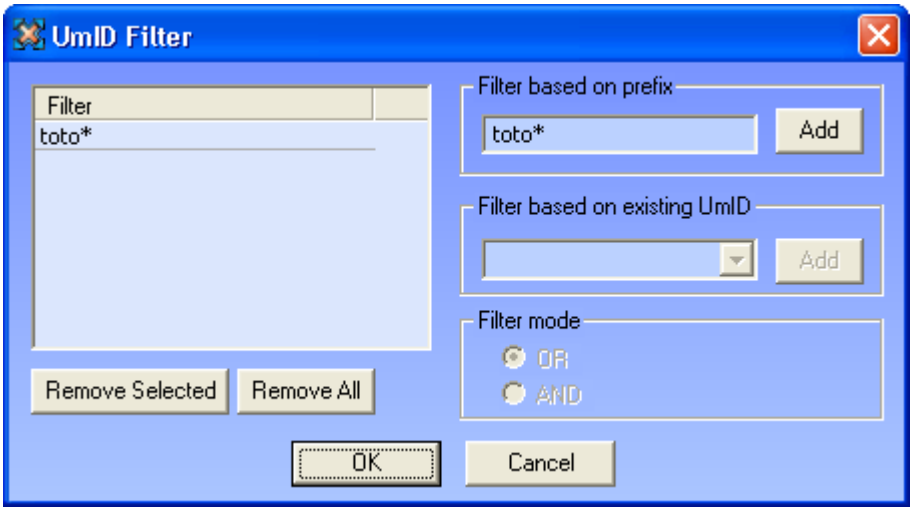
Press OK to confirm your selection and to quit the dialog box. The new keywords appear in the Filter field.

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

UmID

Clicking on the left  icon 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 press Remove selected to cancel the selection of this UmID.

OK/Cancel

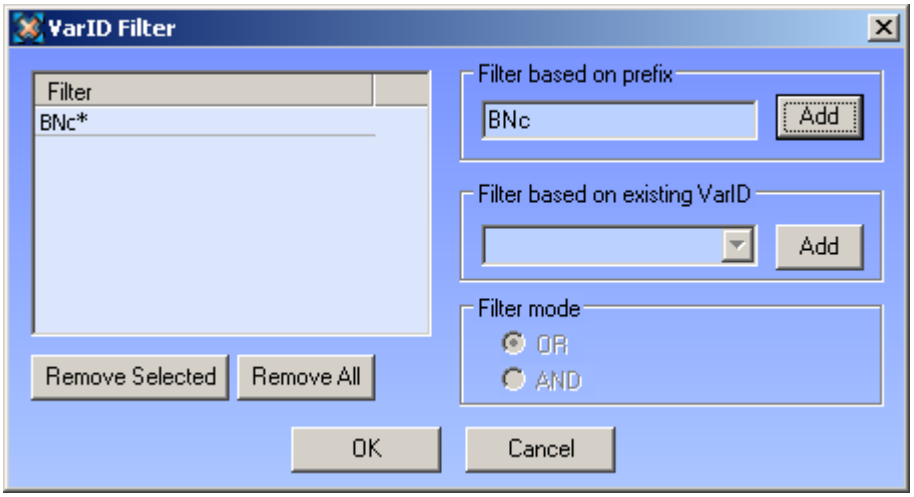
Press OK to confirm your selection and to quit the dialog box. The new UmID appears in the filter field.

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

VarID

Clicking on the right icon 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 press **Remove selected** to cancel the selection of this VarID.

OK/Cancel

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

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

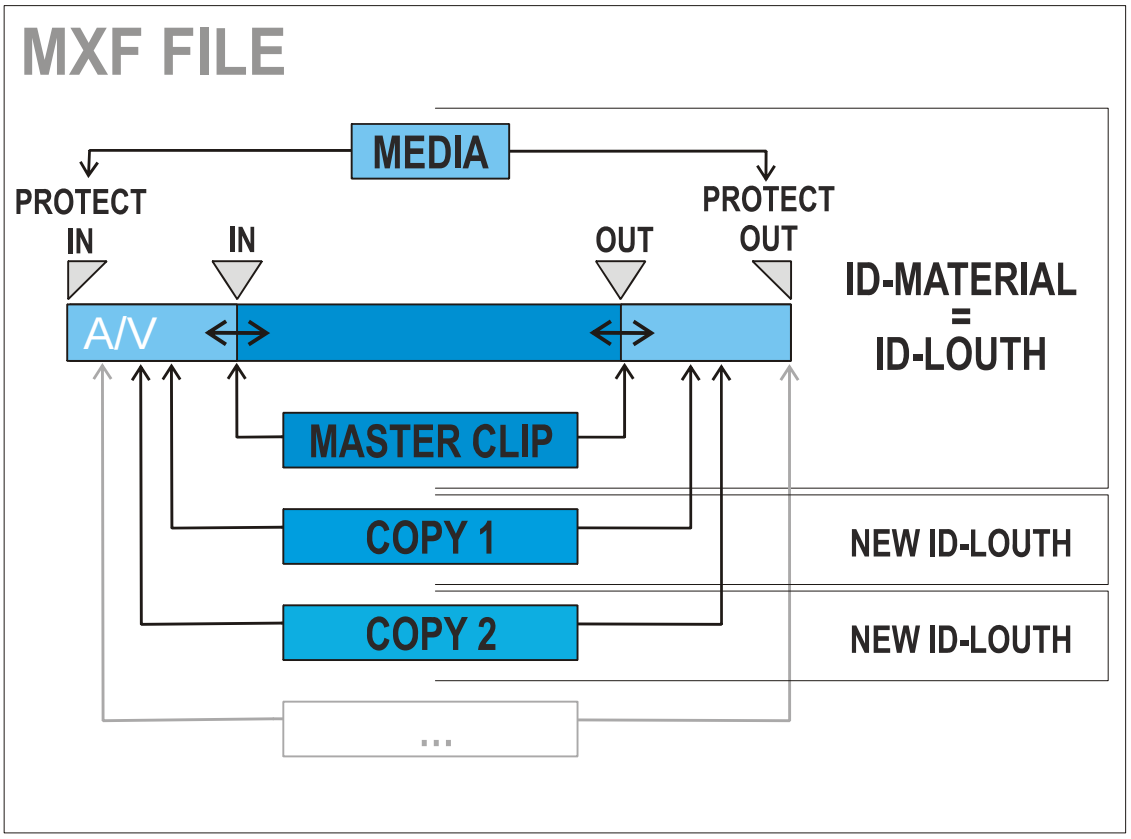
Media / Clips

Media / Clips | All | MasterClip | Group

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.
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

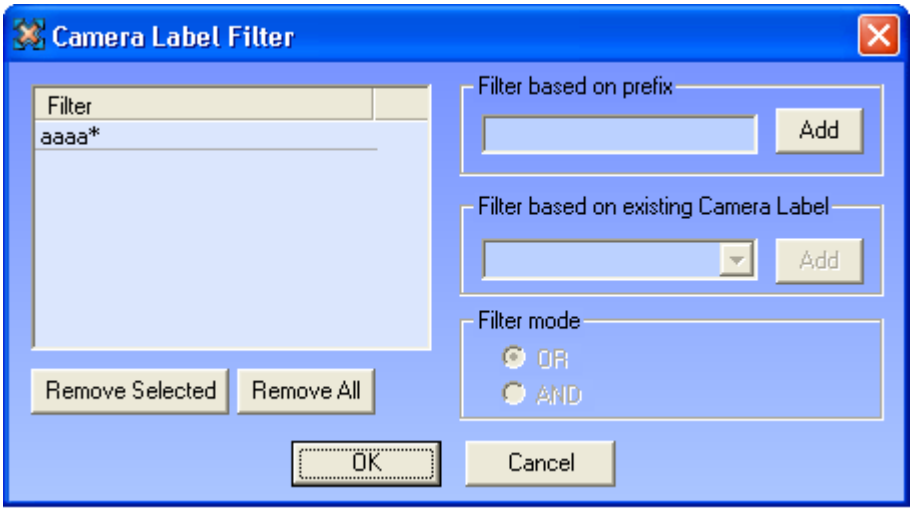
Select the squares representing the different video standards. Selected items appear in a green square and the XFile list is refreshed to display the new selection of clips.

Video Codecs

Select the squares representing the different video codecs. Selected items appear in a green square 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

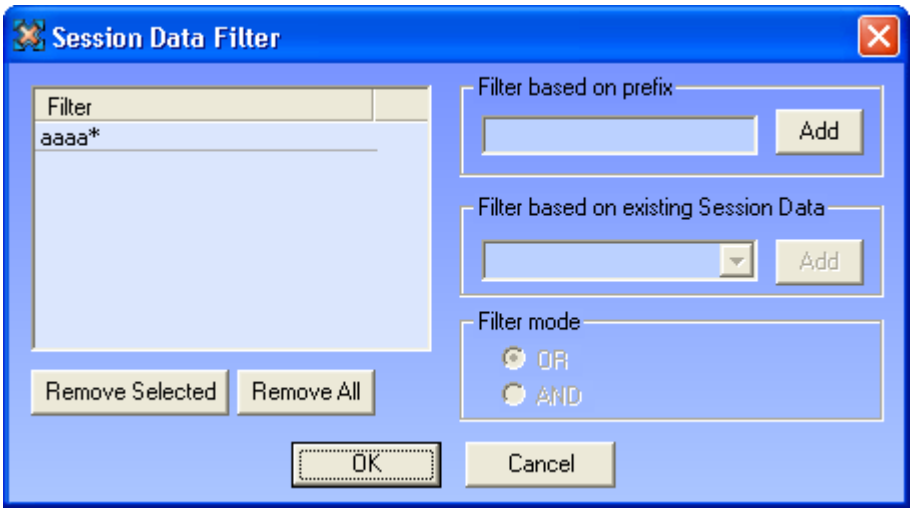
The **Filter based on Prefix** field allows defining a quick filter based on the first character(s) of a camera label.

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.

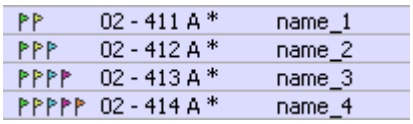
Clip Markers

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 press  to tag the clip or press  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.

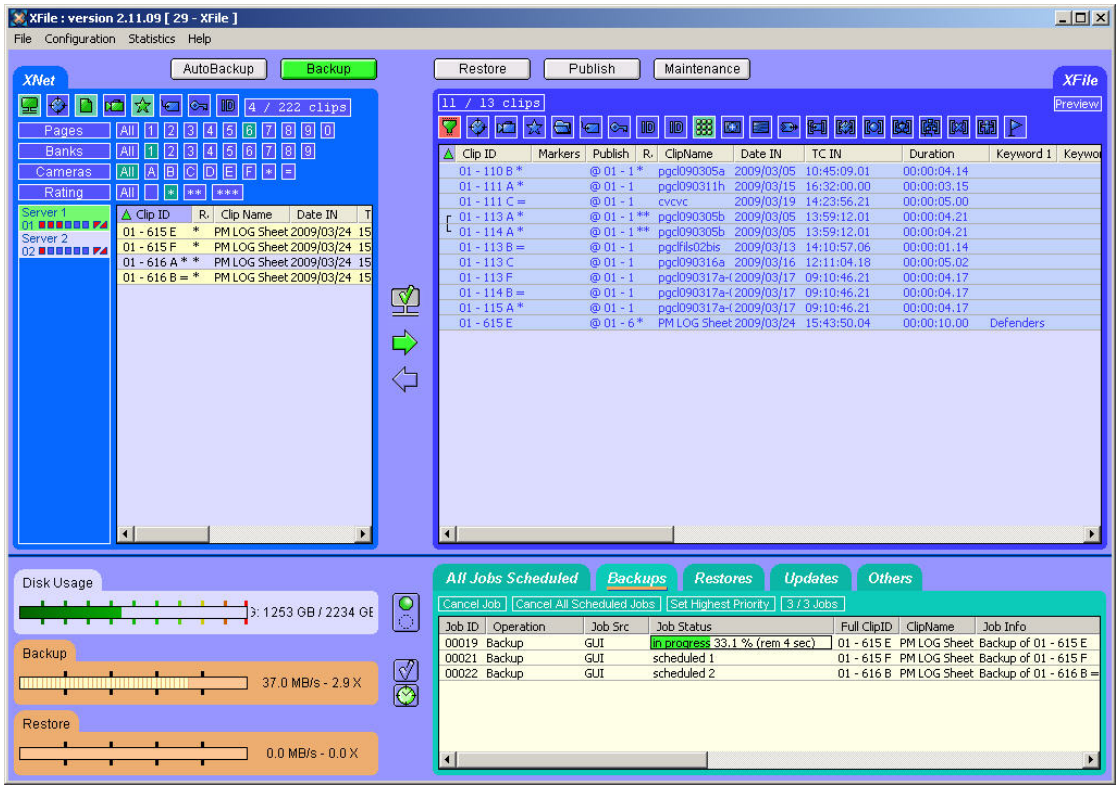
When the total amount of clips displayed in the list exceeds 2000 clips, the counter lights orange.

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

3.5 BACKUP MODE

Press 

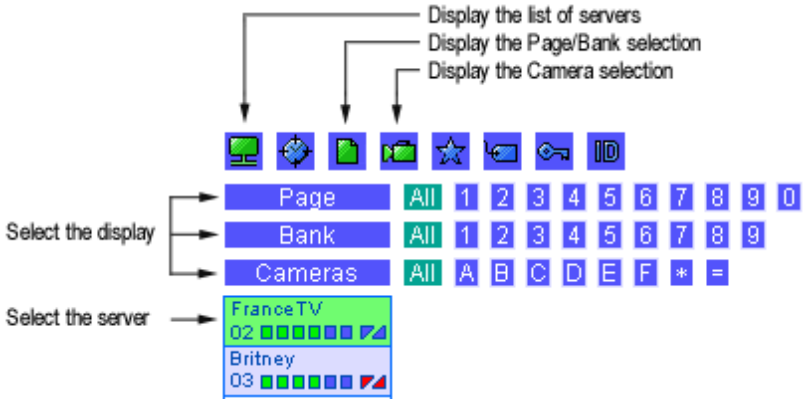
to enter the Backup mode.



3.5.1 How to Start Manually the Backup of a File

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

1. Press 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, press
   - To display the list of cameras, press



5. Define any other available criteria to refine your selection on the XNet list of clips. See the section 'Autobackup Mode', on page 48 for more details on the filters.
6. Select the clip from the list.
7. Press 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:

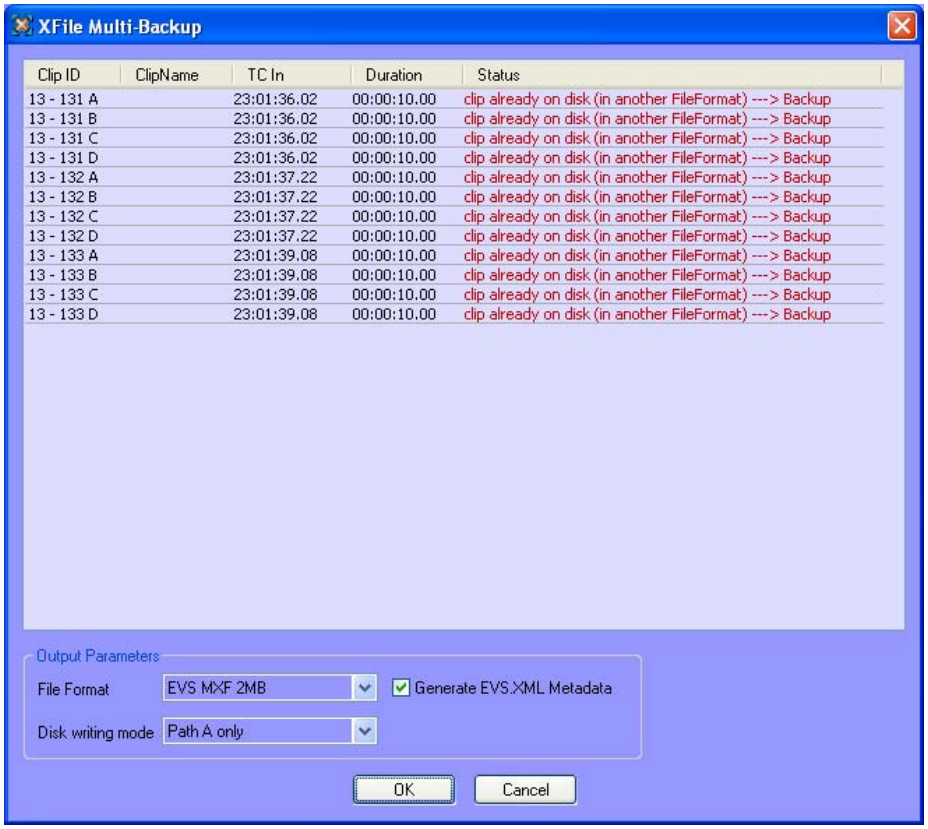
02 - 020 B =	name_1	15:13:49.12
02 - 020 C	name_2	15:13:49.12

3.5.2 How to Perform a Multi-Selection for Manual Backup

To select multiple clips from an XT[2] server to 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, press  .
   - 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 **File Format** field is available at the bottom of the window :



4. If applicable, select the requested output format from the File Format field.

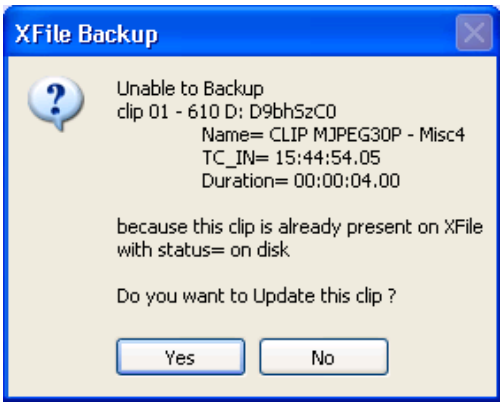
5. If required, select the appropriate Disk Writing Mode from the Disk Writing Mode field.

6. In the XFile Multi-Backup window, the clips selected are listed with the current status.

7. Press 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

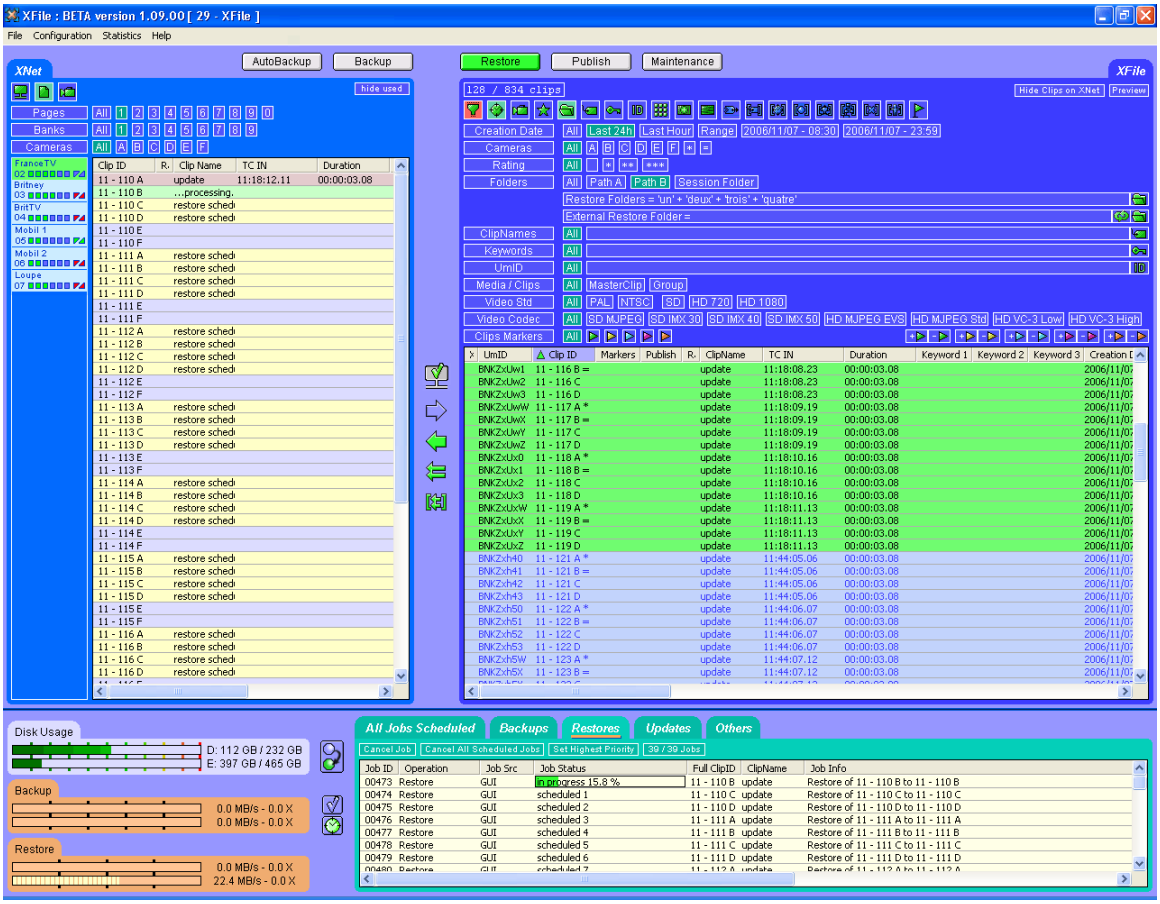
All operations (Backup and Restore) are successive.

3.6 RESTORE MODE

Press 

to enter the Restore mode.

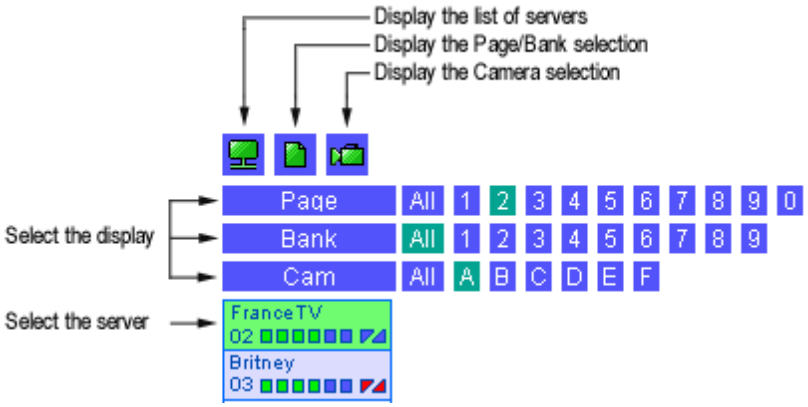
The XFile can also be used as a security backup. Clips can be restored from the XFile to any other server (XT[2] 6U, XT[2] 4U, SpotBox or AirBox) on the network.



3.6.1 How to Restore a File

To restore a backed up file on an XT[2] server, proceed as follows:

1. Press the Restore button to activate the mode.
2. Select the clip from the XFile list.
3. Select the server from the XNet area.
4. To display the list of servers present on the XNet, press  .
5. 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, press  .
   - To display the list of cameras, press  .



6. To restore the clip to the location specified on an XT server, do one of the following:
   - Press  (RESTOREclip) to initiate the transfer of the selected clip. The UmID (ID-material/ID-louth) is preserved.
   - Press  (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.
   - Press  (Short COPYclip) to initiate the transfer of a shorter copy of the selected clip. Only the V/A material included between the IN (i.e. shortIN) and the OUT (i.e. shortOUT) points (without guardbands) will be restored. In this case, a new IDmaterial and a new IDlouth are defined.

The clips being restored on an XT[2] 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.

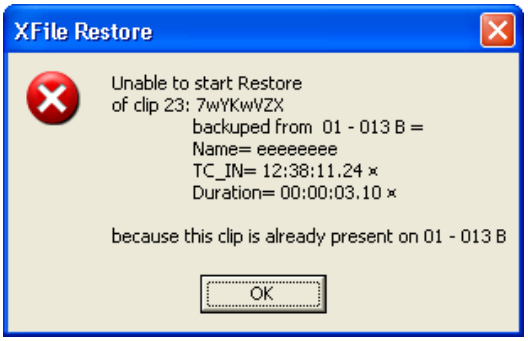
If the user MOVES a clip (ID Louth is maintained), then the XFile will update the original clip.

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

02 - 131 B =	***	Zidanne	14:17:52.16	00:00:02.00	Corner	123456	Zidanne
02 - 131 C *	**	Goal	14:17:52.16	00:00:02.00	Pat	123456	Goal

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:

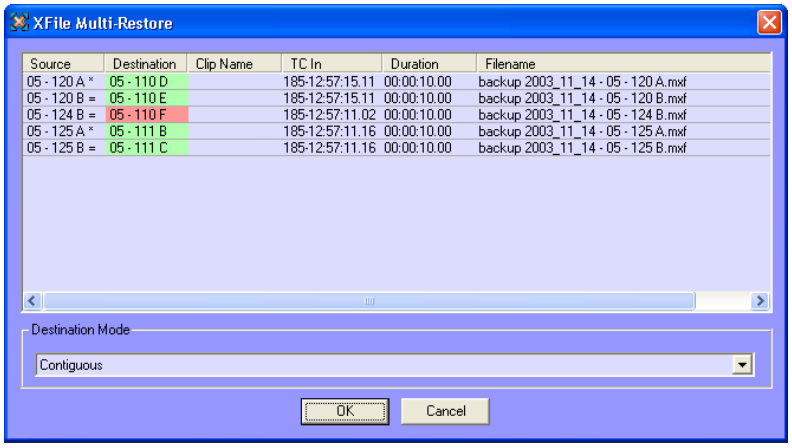


In this case, the operators have to use the COPYclip command to initiate the transfer and create a copy of the clip.

3.6.2 How to Perform a Multi-Selection for Restore

To select multiple clips from an XFile to restore them to an XT[2] server, proceed as follows:

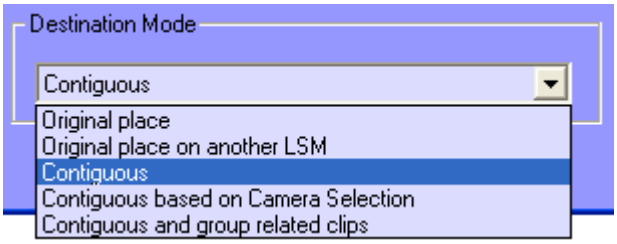
1. In the XFile list on the main XFile window, do one of the following:
   - To select a list of contiguous clips, press SHIFT and select the first and last clips of the list.
   - To select non-contiguous clips, press CTRL and select the clips.
   - To select all the clips displayed in the XFile list, 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 and select the first location to restore the clips.
4. Press  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.
5. Select a restore method from the **Destination Mode** drop-down list. For more details, refer to the section 'Restore Destination Mode', on page 80.

Restore Destination Mode

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



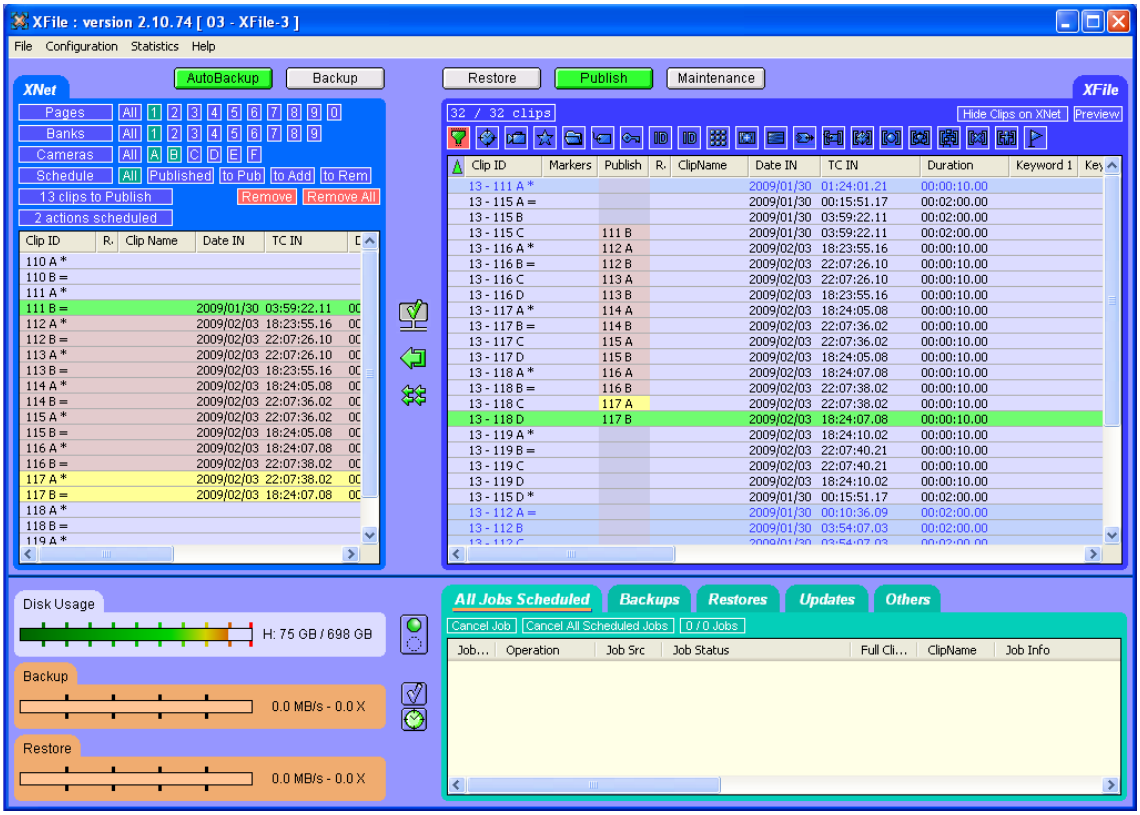
Option	Description
Original Place	The clip returns to its previous location on the XNet. In this case, the selection performed in the XNet list is not taken into account. If the previous location is not free, the user needs to select another Restore Destination mode.
Original place on another LSM	The 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,...

3.7 PUBLISH MODE

Press 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.



3.7.1 PUBLISH MODES

From XFile version 2.02 onwards, two 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..

3.7.2 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.

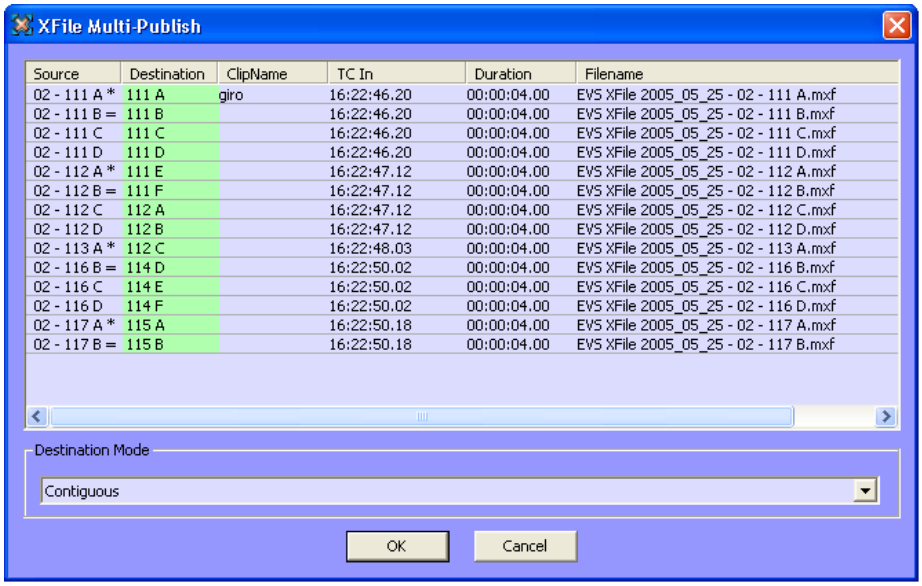
Online Publish

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

1. Press 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. Press  (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 press **OK**. For more details on the various options, see section 'Restore Destination Mode', on page 80).

7. You may switch to the Fast Publish mode by pressing 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.

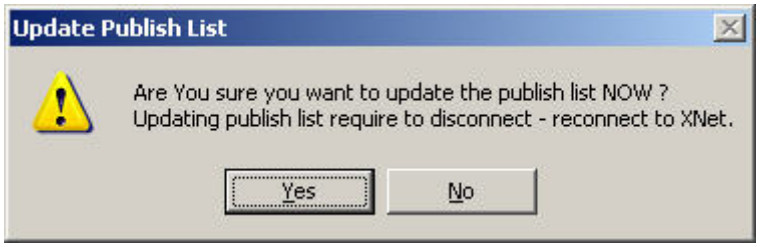
FAST PUBLISH

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 6 from the Online Publish procedure detailed above.

2. Press (Fast Publish) to switch to switch to the Fast Publish mode for the transfer of the selected clip.

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



4. Press Yes.

5. 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.

Important

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 'Parameter for Publish' on page 47.

3.7.3 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. Press 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.

3.8 MAINTENANCE MODE

3.8.1 ACCESSING THE MAINTENANCE MODE WINDOW

Press Maintenance to enter the Maintenance mode.

The Maintenance window opens:

3.8.2 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 icon.

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 3.9 ‘Clip Maintenance’, on page 88.
Disks-Folders Maintenance 	The Disks-Folders Maintenance makes it possible to: • create and delete folders in the 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 3.10 ‘Disks-Folders Maintenance’, on page 98.
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 an XT playlist into a single media file (render XT playlist) For more information, refer to 3.11 ‘Playlist Maintenance’, on page 101.

Disk Maintenance 	In Mirroring mode, the Disk Maintenance makes it possible to: • copy files from one XFile path to the other • synchronize the files between two mirrored XFile paths. For more information, refer to 3.12 ‘Disk Maintenance’, on page 111.

Note

The Disk Maintenance mode is no more available from version 2.02. However, it should be accessible again in a future version. That is the reason why the related section is kept in the User Manual.

3.9 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.

Important

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.

3.9.1 INTRODUCTION

ACCESS

Click on the Clip Maintenance icon  to enter the Clip Maintenance.

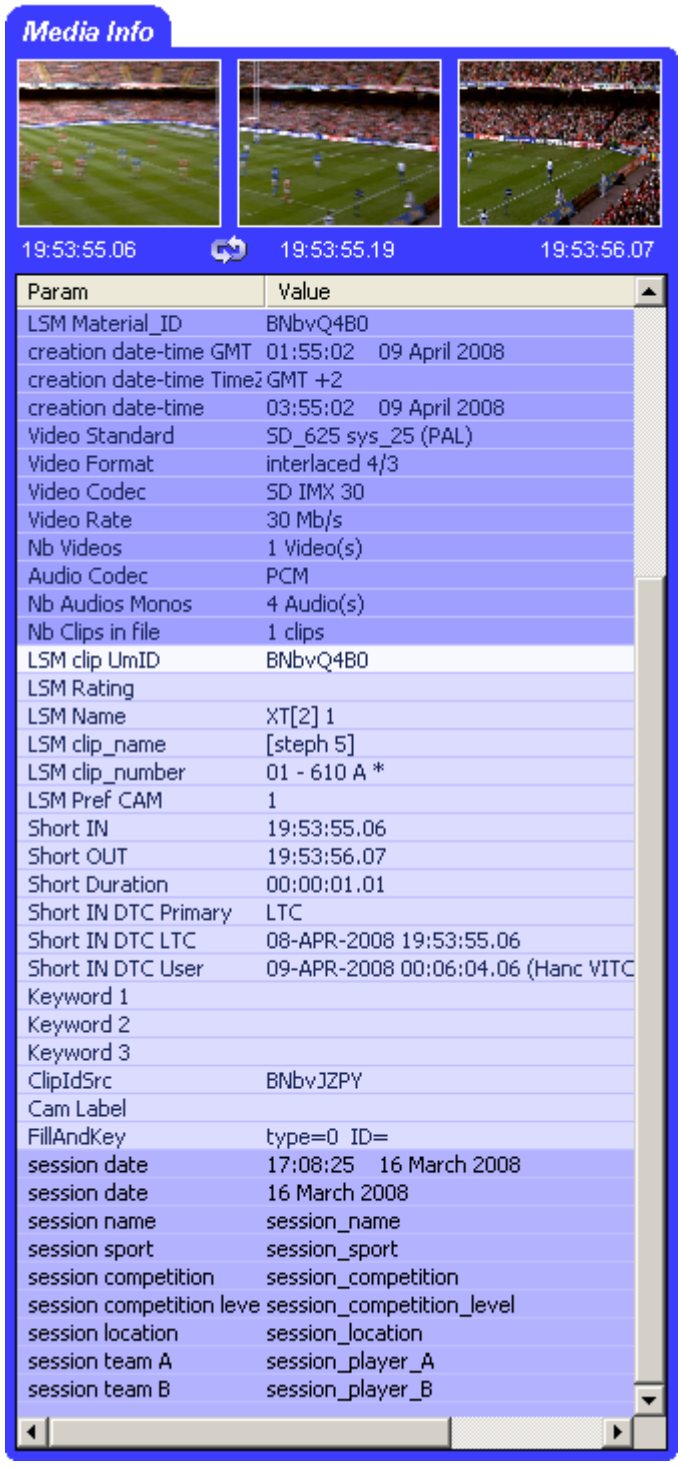
AVAILABLE FUNCTIONS

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 TM or CleanEdit
- importing files from third parties. See also section 3.9.6 ‘Importing Files from Third Party Systems’ on page 97.
- generating an HTML file with thumbnails and information on all the clips displayed in the XFile list. See also the section 5.5 ‘Storyboard’, on page 179.

3.9.2 MEDIA INFO AREA

When you click the **Clip Maintenance** icon, 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.

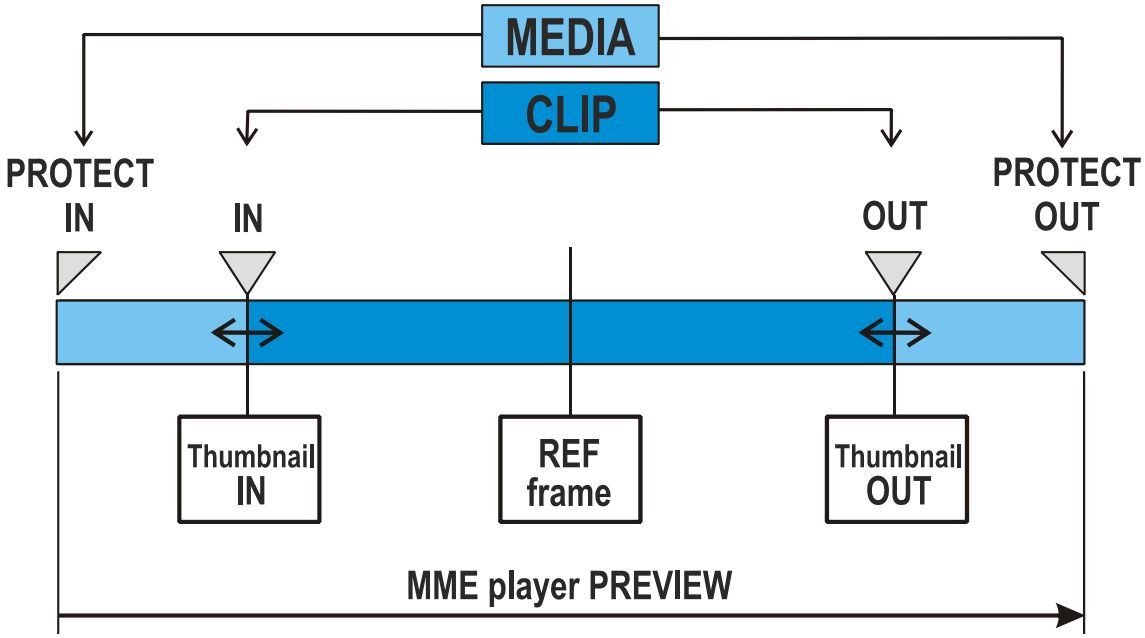


THUMBNAILS

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

The thumbnail shows the following frames from left to right:

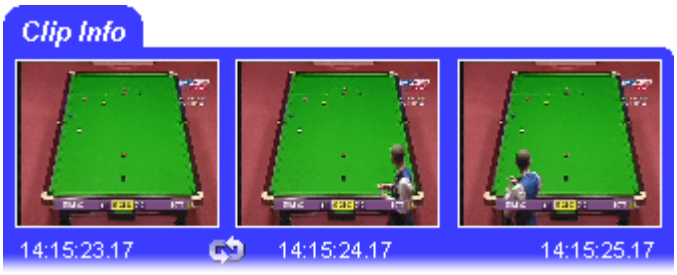
- the IN (i.e. SHORT IN) frame,
- the REF frame (automatically defined in the middle of the clip),
- the OUT (i.e. SHORT OUT) frame.



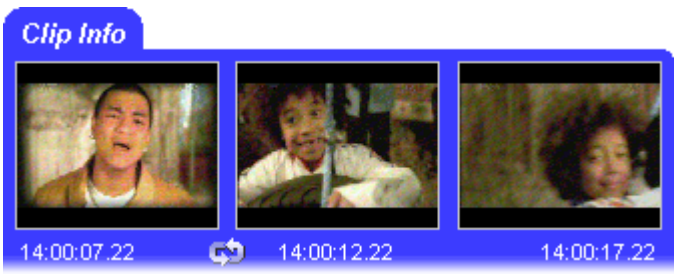
The XFile versions previous to the version 1.01.05 do not include the thumbnails creation process. Use the button to create new thumbnails or to update the current thumbnails.

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

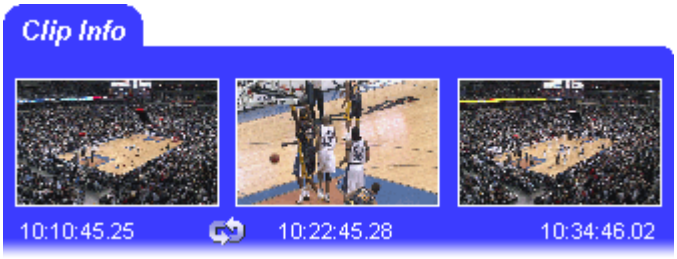
SD clips are displayed with 4:3 aspect ratio.



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 XT[2] servers can be backed up in different file formats. The backup files having different formats can be maintained in XFile.

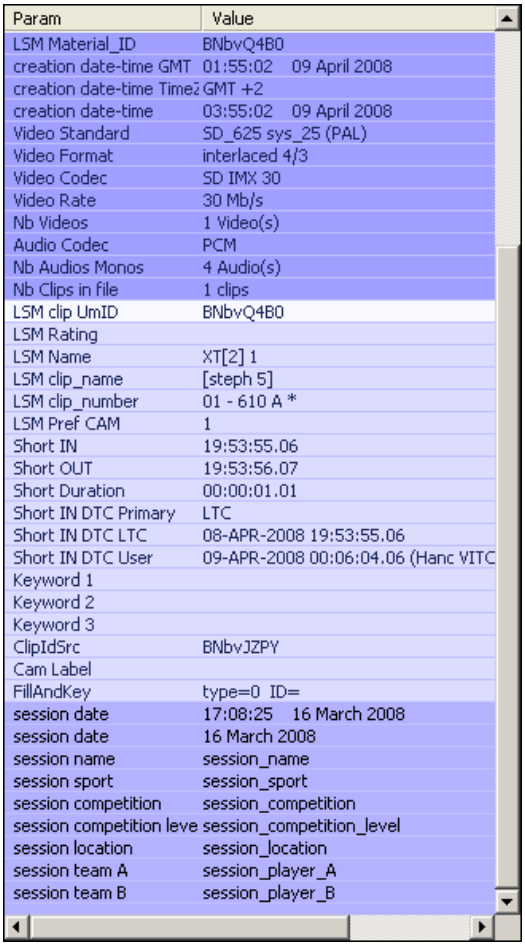
The metadata of the EVS MXF files is stored in the header of the MXF file.

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.

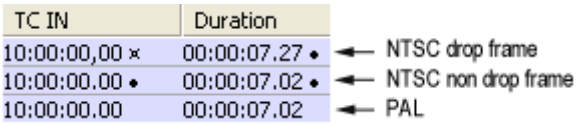
The last parameters (dark blue) display the current values saved to the Session Configuration window. These parameters are common for each clip.



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	
ClipId5rc	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.

3.9.3 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.

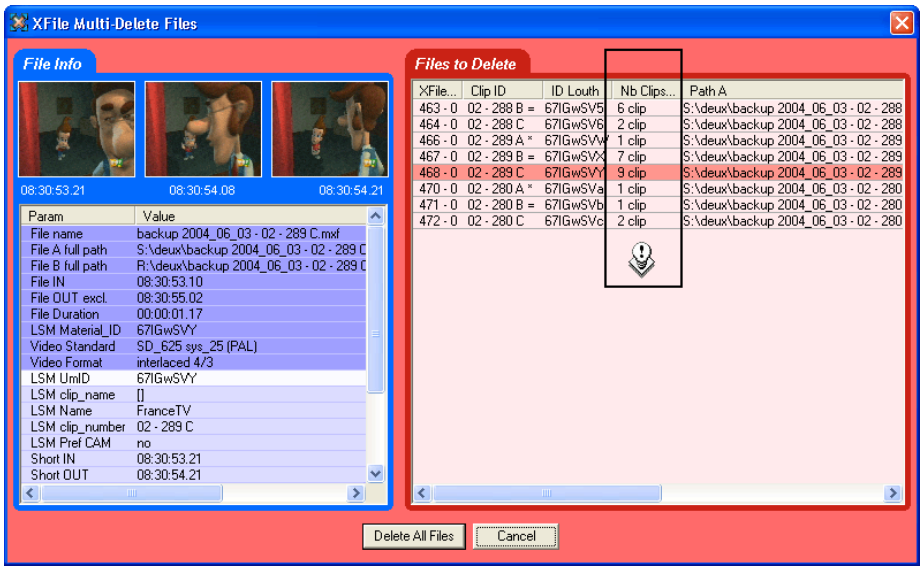
To mark the clips and the files out, it is advised to change the display to 'Group' in the Media / Clips filter.

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

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. Press Delete File to open the XFile Multi-Delete Files window:



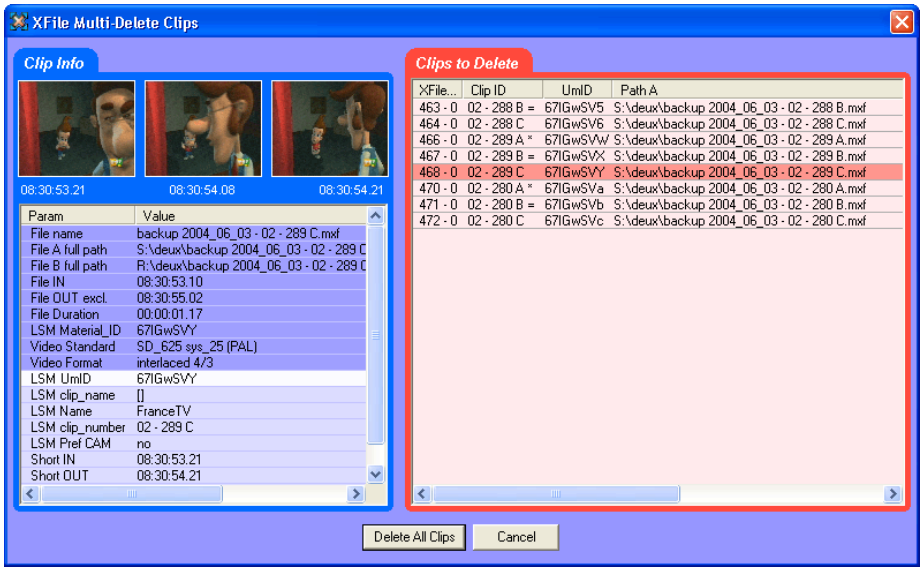
3. This window allows the operator to review the files before deletion. Pay attention to the number of clips included in each file. Deleting the file will delete all the clips included in this file.

4. Press **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. Press Delete Clip to open XFile Multi-Delete Clips window. This window allows the operator to review the clips before deletion:



3. Press 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. Press OK to close the message box and to switch to the Multi-Delete Files window (shown on a red background).

6. Press Delete All files to confirm the command or Cancel to abort the operation.

3.9.4 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 XT[2] server.

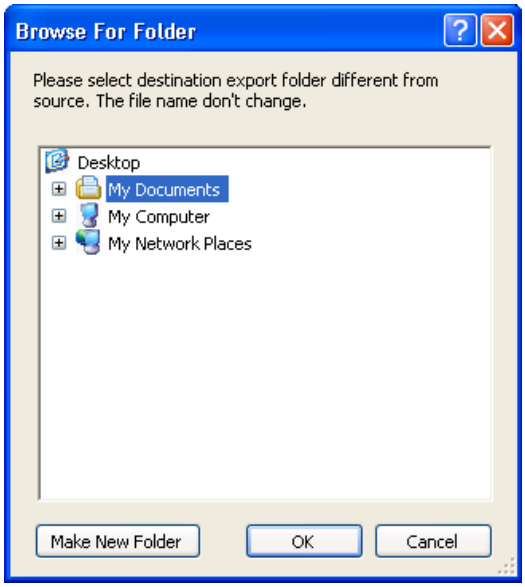
HOW TO CONVERT MANUALLY BACKUP FILES

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 36).

3.9.5 TRANSFERRING BACKUP FILES TO EXTERNAL SYSTEMS

From the Maintenance module, it is possible to transfer the backup files to the Avid Transfer Manager or to the CleanEdit suite.

HOW TO TRANSFER BACKUP FILES TO AVID TM

To transfer backup files to Avid TM, 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 TM.

HOW TO TRANSFER BACKUP FILES TO CLEANEDIT

To transfer backup files to CleanEdit, 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 CleanEdit.

3.9.6 IMPORTING FILES FROM THIRD PARTY SYSTEMS

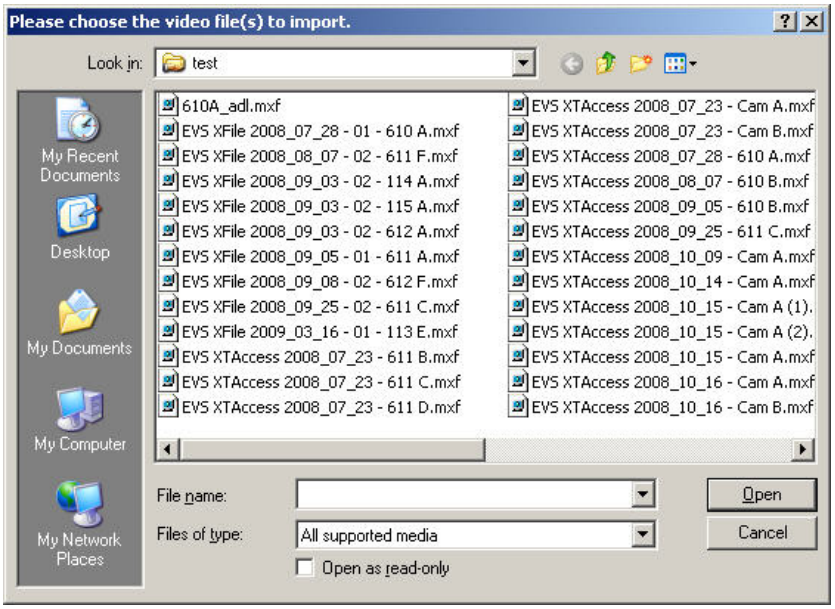
Files from third parties do not have a corresponding EVS.xml file containing the associated metadata. As they need to be available in XFile, the import function will result in the creation of an EVS.xml file containing the metadata that the system has been able to retrieve. Supported file extension are: EVS MXF, Avid MXF OPAtom and QT mov.

HOW TO IMPORT FILES FROM THIRD PARTY SYSTEMS

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

1. Press the Import button.

   The Import window opens:



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

The imported file is displayed in the XFile List.

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

3.10 DISKS-FOLDERS MAINTENANCE

3.10.1 INTRODUCTION

ACCESS

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

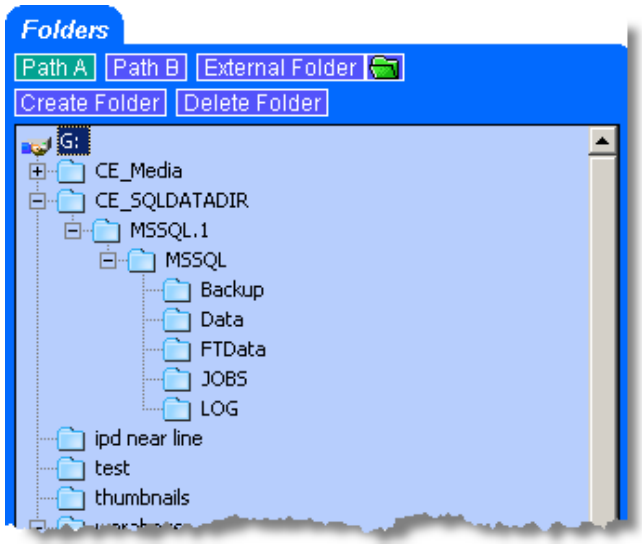
AVAILABLE FUNCTIONS

This mode allows the user to perform the following actions:

- 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.

3.10.2 FOLDERS AREA

When you click the Disks-Folders Maintenance icon, 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.



3.10.3 How to Copy/Move Clips to Other XFile Folders

Important

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 Disk icon  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 list, select the Path A or Path B 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. Press  to initiate the MOVE file or press  to initiate the COPY file.

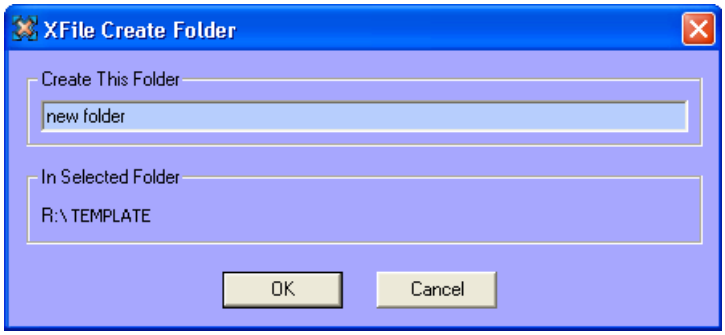
3.10.4 MAINTAINING FOLDERS IN THE XFILE PATHS

In the folder list, two additional functions have been added to ease the use of the folders list: 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. Press 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:

3.11 PLAYLIST MAINTENANCE

3.11.1 INTRODUCTION

ACCESS

Click on the Playlist Maintenance icon  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 XT[2] server.

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

AVAILABLE FUNCTIONS

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

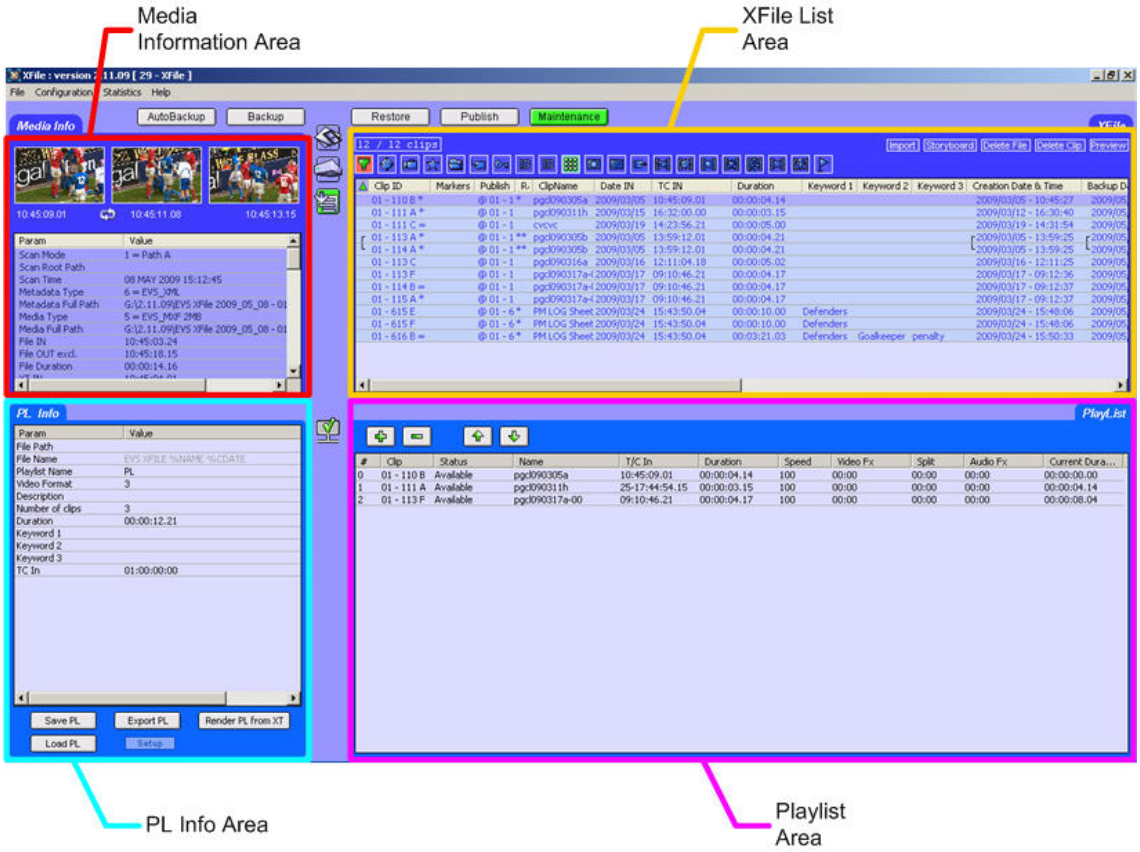
- save a list of backup clips as a playlist on an XFile drive
- export the playlist to a file
- render a playlist from an XT server into XFile
- publish and restore the playlist on the XNet network (not yet available).

Note

The Import button is not intended to be used with playlists.

3.11.2 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 ‘Defining Columns’, on page 56.

- Apply filters.

  See also the section ‘Filters’, on page 57.

- Transfer and convert backup files.

  See also the sections 3.9.4 ‘Converting Backup Files’, on page 95 and the section 3.9.5 ‘Transferring Backup Files to External Systems’, on page 96.

- Edit a backup clip.

  See also the section 5.2 ‘Editing a Clip’, on page 159.

MEDIA INFO AREA

The Media Info area contains the same information as the Media Info area available in the Clip Maintenance. Refer to section 3.9.2 ‘Media Info Area’ on page 89.

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:

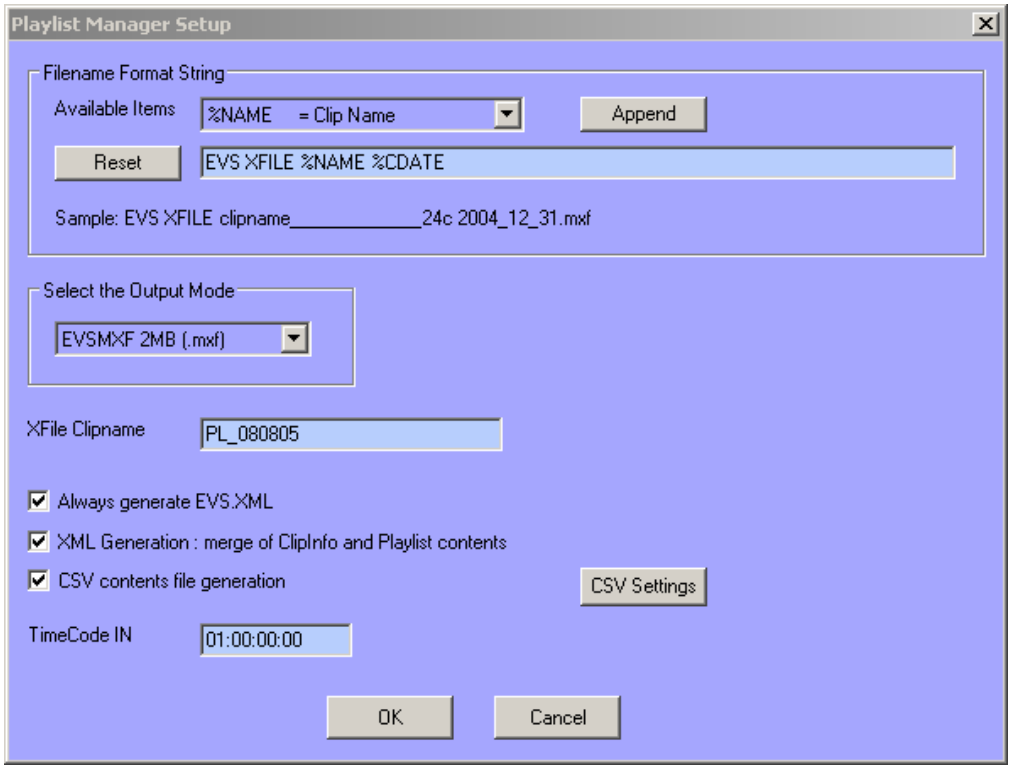
- saving and loading a playlist created in the Playlist area.
- exporting a playlist of backup clips into a single media file.
- specifying the parameters to be used when the playlist backup file, or the playlist from XT rendered, and the XML file(s) are created.
- rendering an XT playlist into a single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

3.11.3 SETTINGS FOR PLAYLISTS

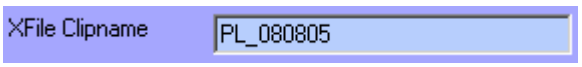
ACCESSING THE PLAYLIST SETTINGS

The settings for creating and exporting backup playlists or rendering XT 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:

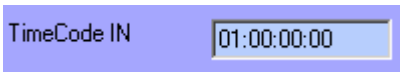


XFILE CLIPNAME SETTING



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 XT.

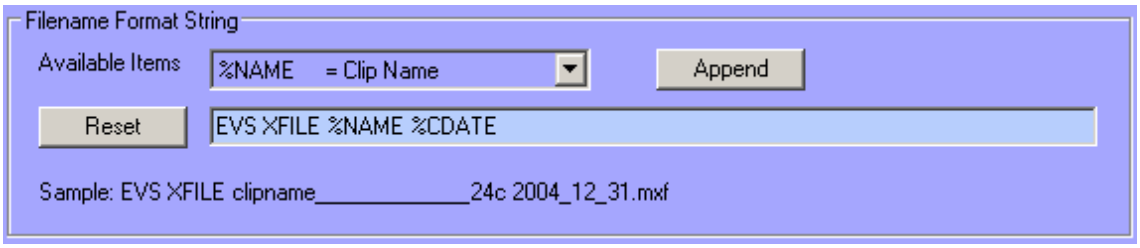
TIMECODE IN SETTING



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 XT.

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 37.

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 XT 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 XT 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.

3.11.4 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 of the 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  icon 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  icon 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  icon.
   - To add one ore 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  icon.

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 Load PL 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 108.

   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  icon 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  icon.
   - To add one ore 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 Save PL icon.

   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.

3.11.5 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 3.11.3 ‘Settings for Playlists’, on page 104.

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 108.
   - 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 107.
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.

3.11.6 RENDERING AN XT PLAYLIST

INTRODUCTION

Rendering a playlist from an XT 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 XT 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 rendering the XT 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 XT.

HOW TO RENDER A PLAYLIST FROM XT SERVER

Note

Before you back a playlist up from an XT server, ensure that the desired settings are defined in the Playlist Manager Setup window. See also the section 3.11.3 ‘Settings for Playlists’, on page 104.

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

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

   The Render Playlist from XT dialog box opens:

2. Enter the XT number and the playlist number and press OK.

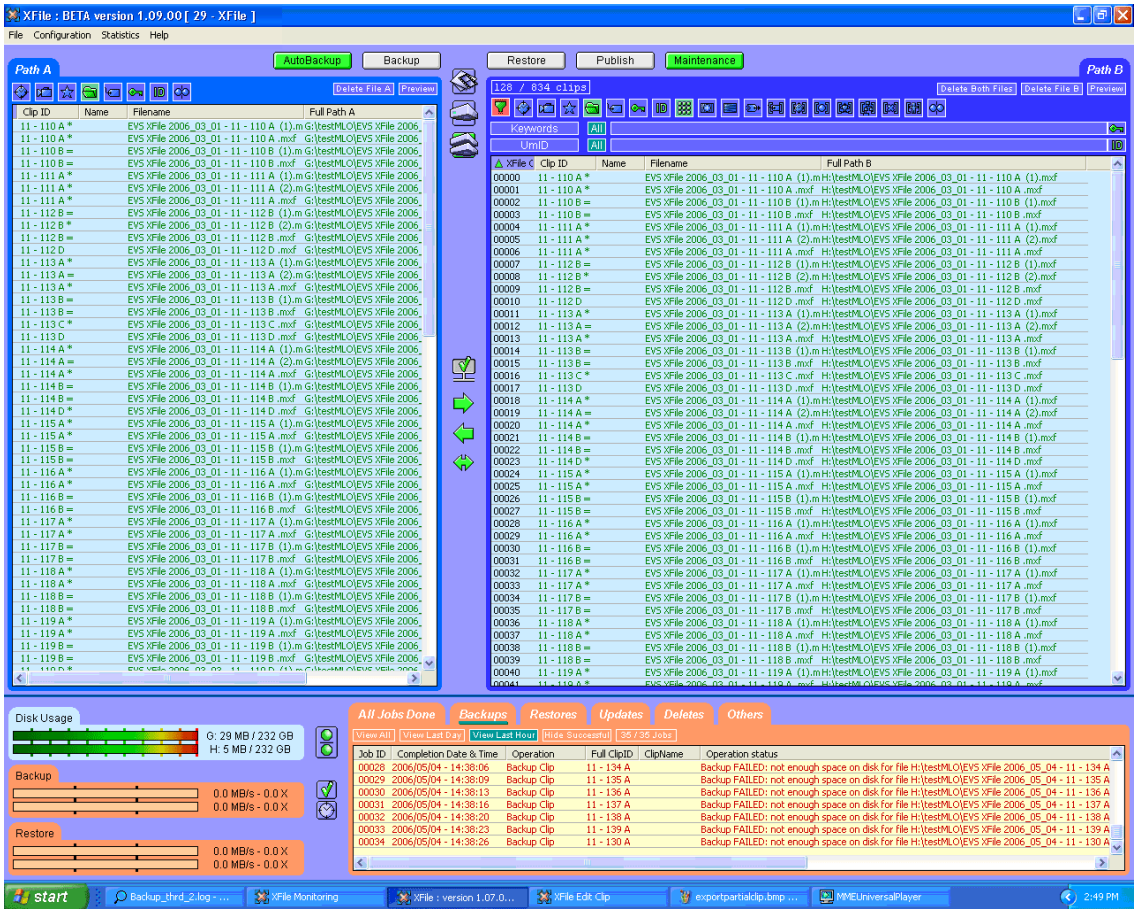
The XT playlist is rendered into a single media file and his new file is displayed in the XFile List area. The XML files are also created in the same folder as the media file.

3.12 DISK MAINTENANCE

Note

The Disk Maintenance mode is no more available from version 2.02. However. It should be accessible again in a future version. That is the reason why the related section is kept in the User Manual.

Click on the Disk icon  to enter the Disk Maintenance.



The main screen changes to display the content of Path A on the left part of the screen and the content of path B on the right part of the screen.

The following filter allows the operator to refine the display of both lists by isolating the differences or the common clips:

Mirroring | All | Differences | Common

Press  to gain access to the filters selection.

Clicking on the  arrows initiates a clip copy from one path to the other, and clicking on the  arrow synchronizes both contents in a single operation.

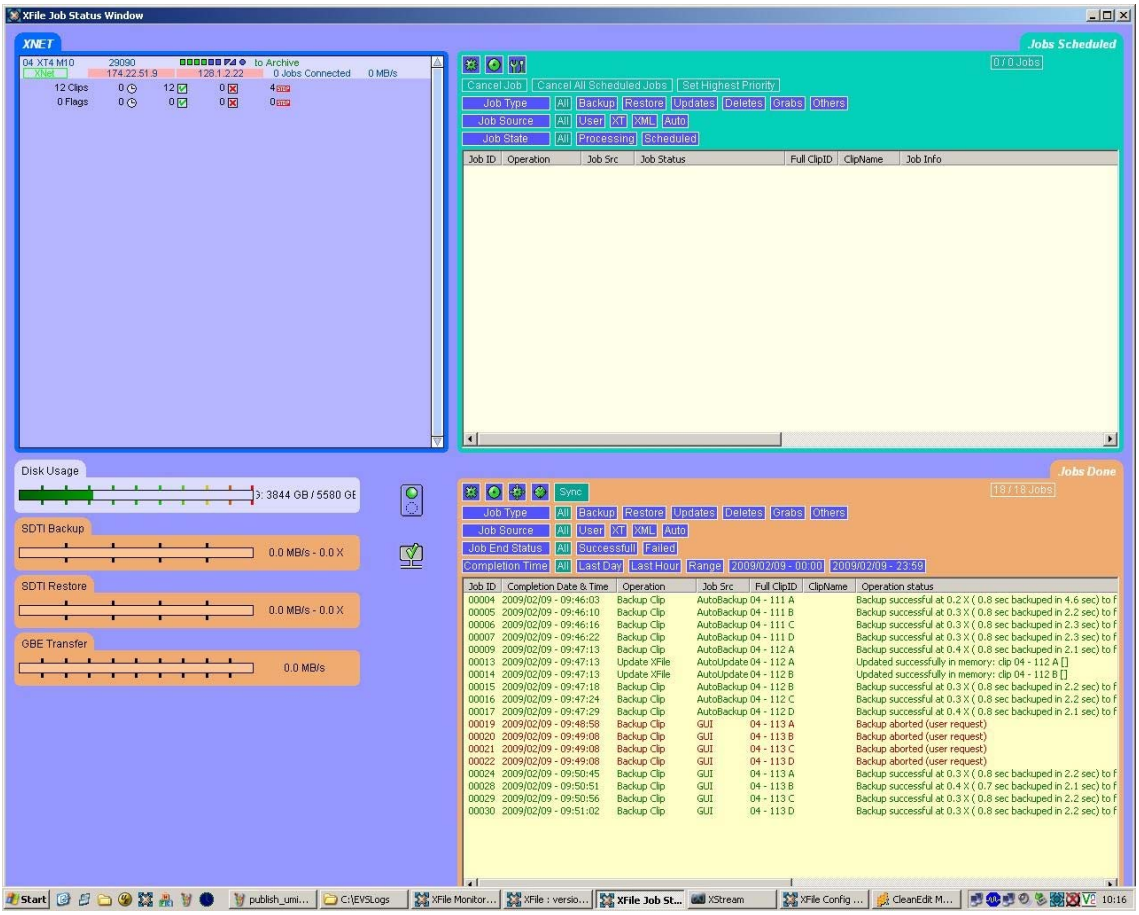
3.13 JOB STATUS

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 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:

	Server identification : UserNumber and UserName
	Serial Number
	Current configuration of the channels

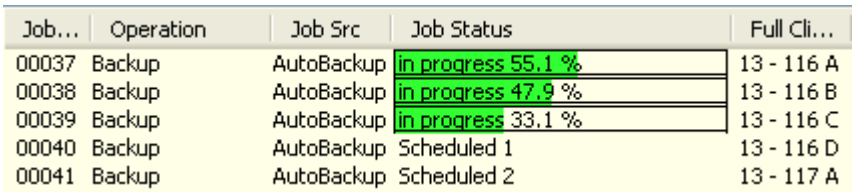
The second line displays:

 	Gives information on the hybrid mode configured: A green label indicates that transfers can be performed through an SDTI connection, i.e. an XT 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 15 A red label indicates that the GBE Only mode is used or that the XT server is disconnected.
	2 IP adresses.
	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 press ‘Cancel job’, or press ‘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

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 press:

The selected item is re-scheduled in the queue, 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 icons. 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 XT 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

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 icons. 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: displayes 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 XT 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

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

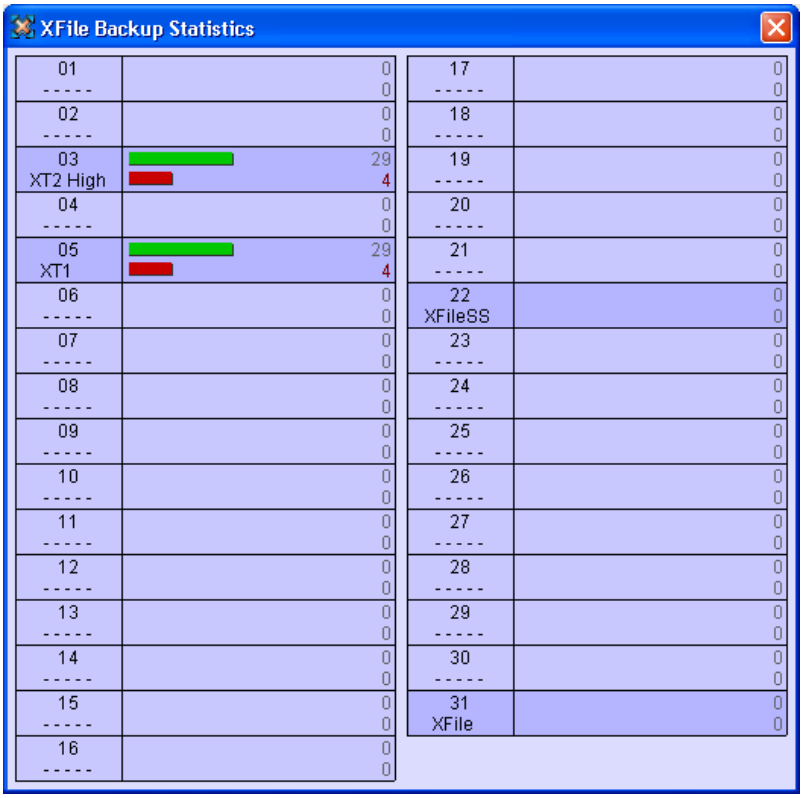
The Disk Usage area displays the remaining capacity and the capacity of local disks.

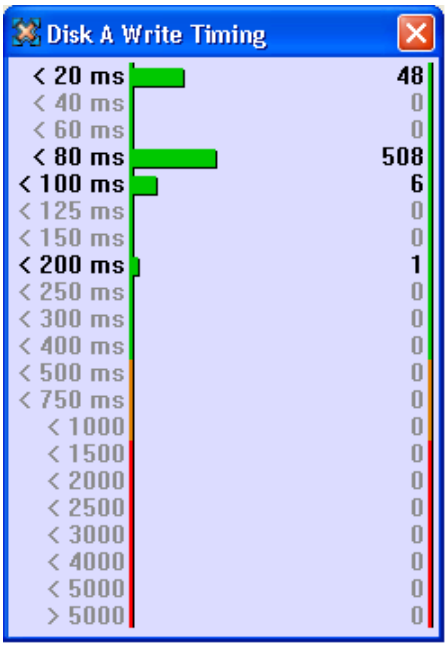
The Transfer rate area displays the transfer rates for backup and restore operations in progress.

3.14 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.

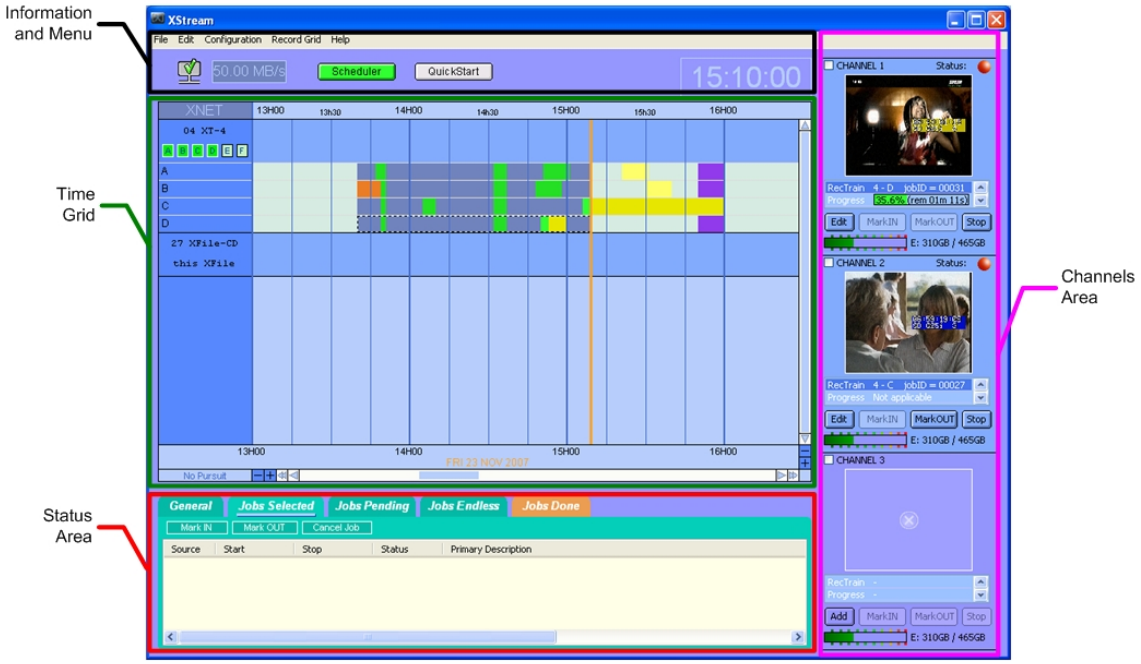




4. XStream

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 can not be active nor work at the same time, even on different XT[2] servers.

4.1.1 SCHEDULER MODE

The Scheduler mode allows the user to schedule the following backup jobs on one or several XT[2] 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 symbolising 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 146.

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 152.

4.2 INFORMATION & MENU AREA

The Information & Menu area displays the elements described below:

4.2.1 SCHEDULER AND QUICKSTART BUTTONS

Press 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.

Press QuickStart to activate the QuickStart mode. You can access this mode by clicking the blue bullet next to the XT[2] server name. In this mode, you can start and stop manually the backup of one or several trains recorded on one or several XT[2] server(s) without having to create a job.

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

Button colour	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 XT[2] server displayed in the grid. This time code is defined by the user on the XT[2] 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 XT server displayed in the grid. The XT 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 colour codes are used in the time grid to easily distinguish the various job types. The colour codes are the same in the Scheduler mode and in the QuickStart mode.

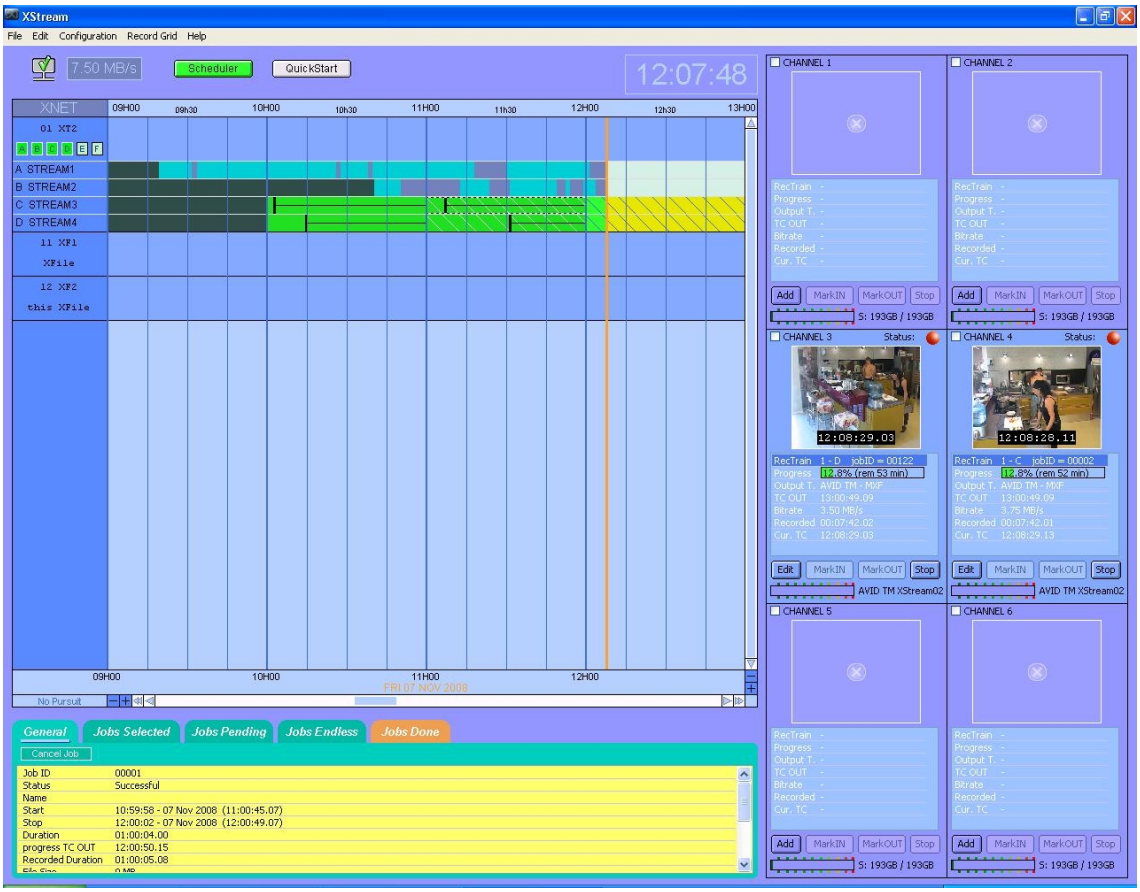
The following table describes the various job types with the colour associated to each job type:

Background colour	Meaning
Yellow	Job scheduled
Gold (darker yellow)	Job in progress (still to be backed up)
Lime (bright green)	Job in progress (already backed up)
Limegreen (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.

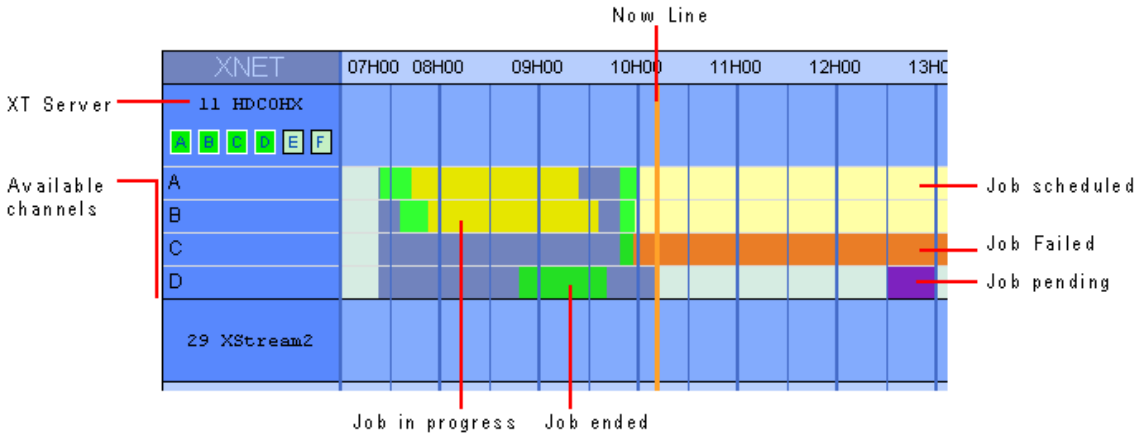
A job with thin hatching from right to left corresponds to the selected job.



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

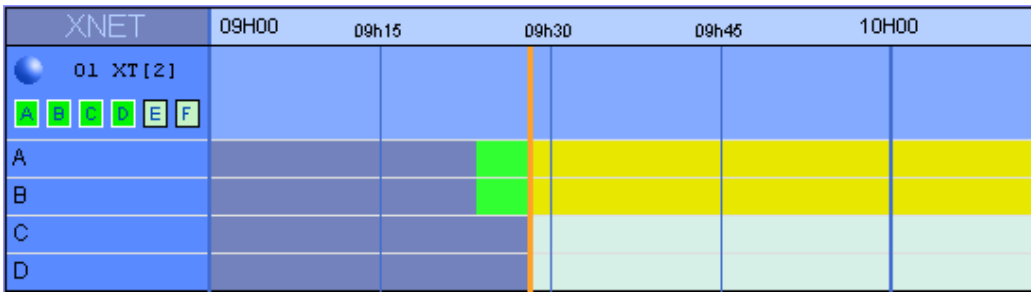
SCHEDULER MODE

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 135).

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	Longitidinal 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 XT[2] server displayed in the grid. This time code is defined by the user on the XT[2] 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 XT[2] 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 XT time code display, not in the PC time display.

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

FRAME ACCURACY DEPENDING ON THE DISPLAY MODE

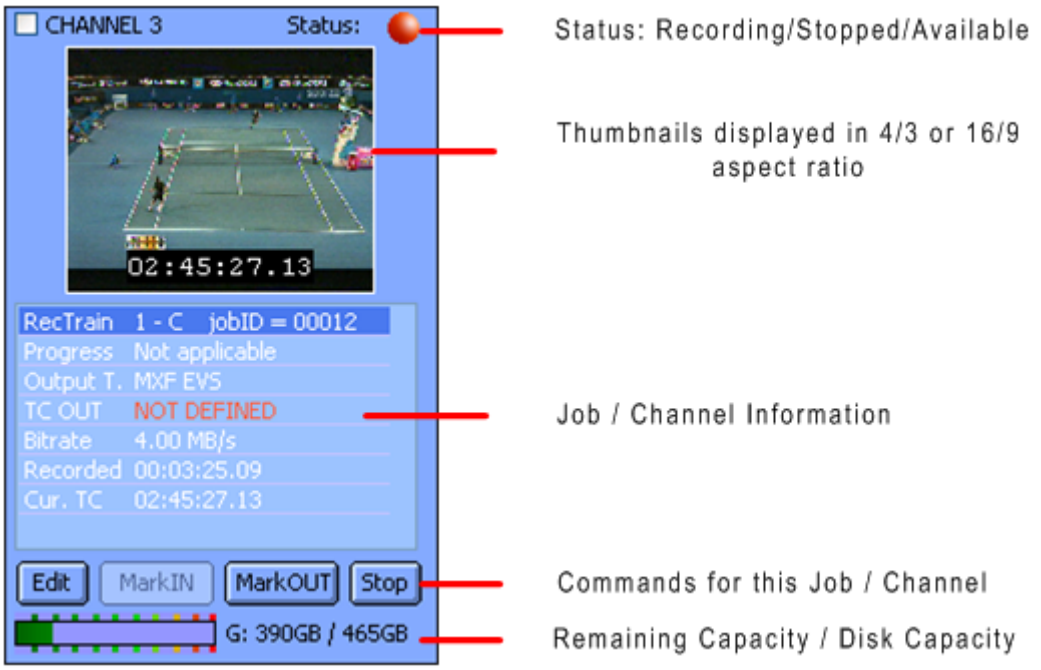
The video is frame accurate in some display modes, but not in all of them. The application will ensure frame accuracy in the following cases:

- QuickStart mode
- Scheduler mode with XT time code display

When using the Scheduler mode in PC time display, the frame accuracy can not 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:

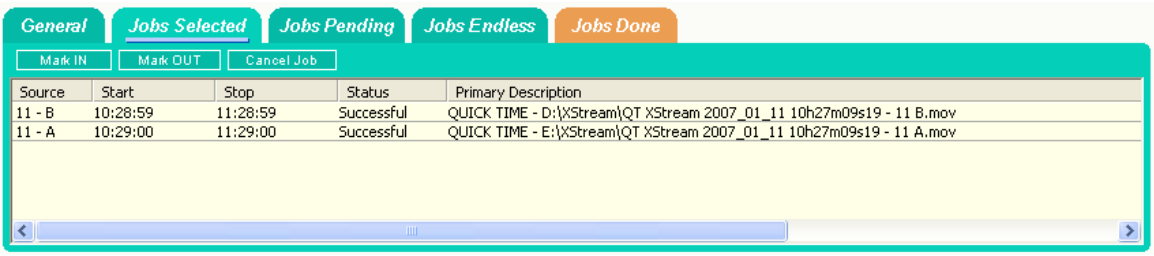
Command	Description
Retry	Select a job failed in the list and press the Retry button to retry the process.
Cancel Job	Select one/several items in the list and press Cancel job to delete all the selected items in the list.
Clean All	Press this button to clear all items in the list.

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.

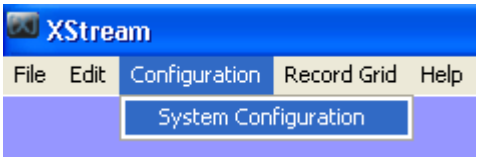
Several items can be selected at a time, so several jobs can be started or stopped or cancelled simultaneously.

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:

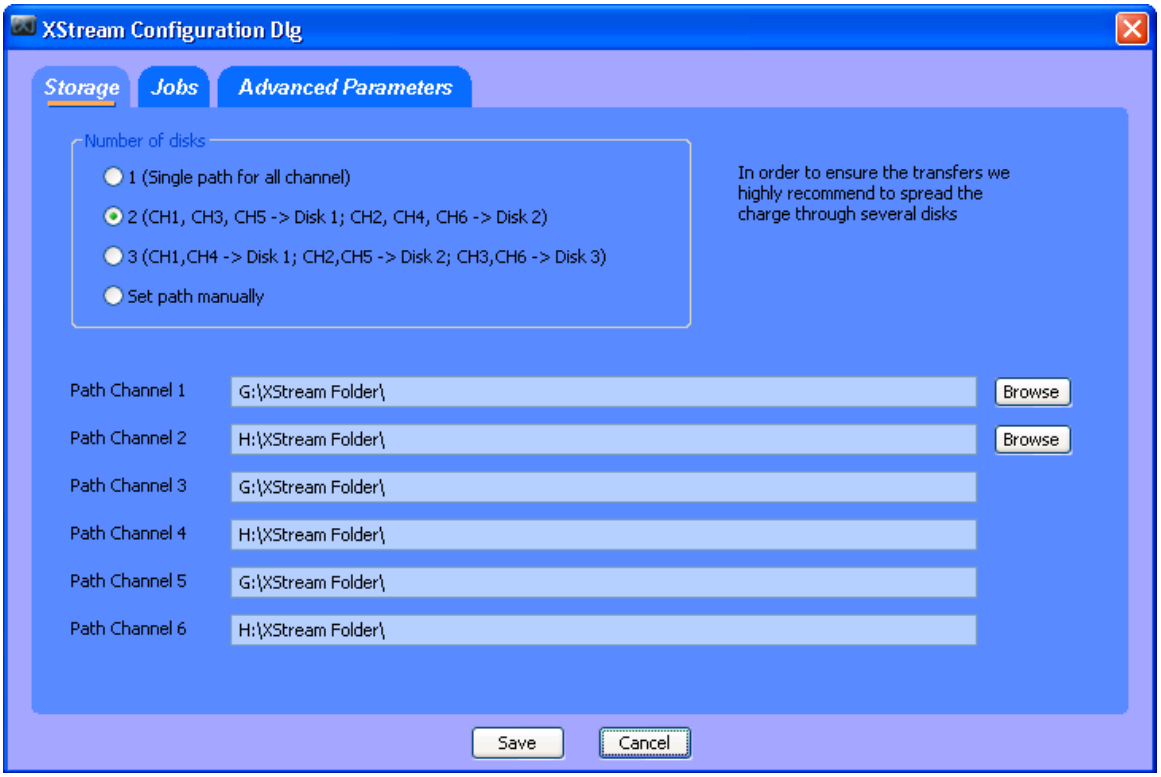


During operations, this window will be displayed in read-only mode for information.

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 to balance the load onto several disks.

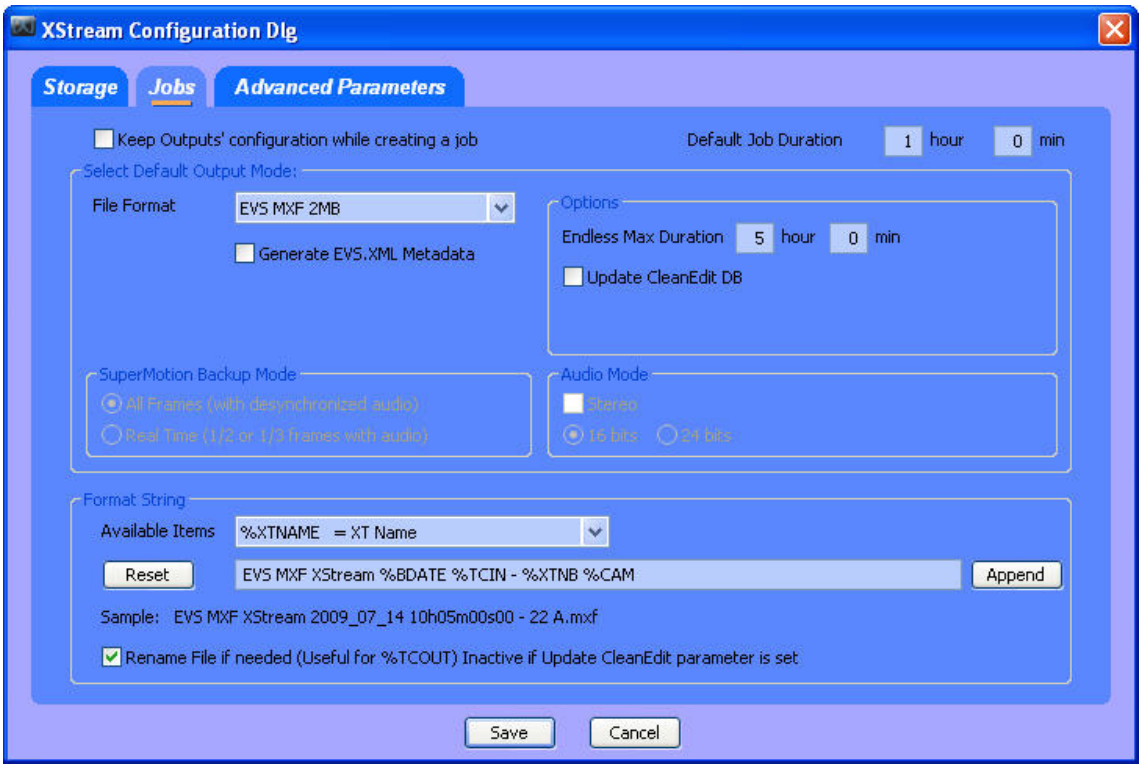
PATH CHANNEL

Specifies the path to save files 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. They will have priority on these default settings, provided that the option Keep Outputs' Configuration while Creating a Job has been selected.



DEFAULT JOB DURATION

(default: 1 hour)

SELECT DEFAULT OUTPUT MODE

Six 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)	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 Mov.	The user can optimize the FCP by selecting the FCP Opt. check box (i.e. FCP Optimization).
Quick Time Ref.	With this format, you need to specify the duration of the backup file in the Quick Time Ref group box. See section 'Quick Time Reference', on page 130. The user can optimize the FCP by selecting the FCP Opt. check box (i.e. FCP Optimization).
Transfer to Avid Transfer Manager	With this format, you need to specify an Avid Media Type in the Default TM Media Format group box. See section 'Avid TM', on page 130.
Avid MXF OPAtom	None.

Quick Time Reference

When selecting the Quick Time Ref. output format, you need to specify a maximum duration for the backup file in the Endless Max. Duration field. This is necessary since an end time has to be defined in the backup file when it is created in this format.

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.

Avid TM

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

Default TM Media Format

In this group box, you need to select the media format in which the Avid TM will convert the backup file from XStream.

Select the radio button corresponding to the requested format:

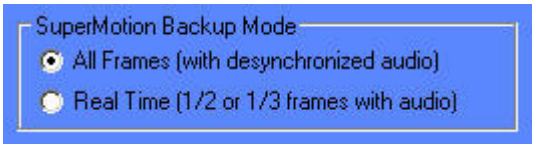
- OMF
- MXF/AAF

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. The EVS.XML file contains the metadata on the backup file.

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 TM.

AUDIO MODE

Selecting the Stereo option results in grouping XT'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.

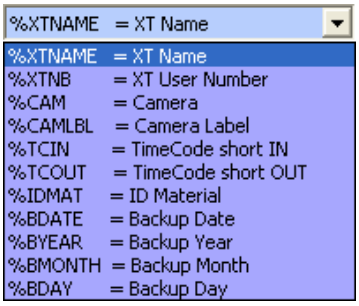
FORMAT STRING

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: EVS MXF, MXF OP1a IMX, Quick Time Mov., Quick Time Ref., Avid Target Name or Avid MXF OPAtom selected format.

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.

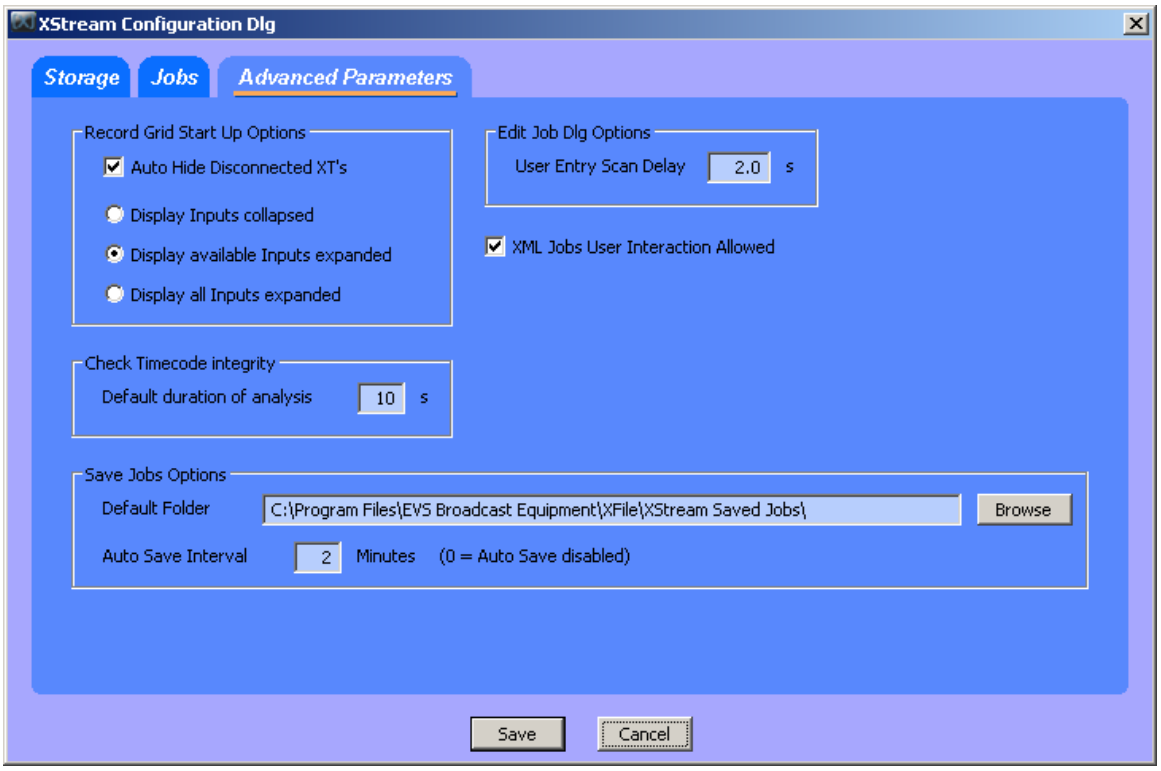
4. To add an information type specified in the **Available Items** drop-down list, select the item in the drop-down list.

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 XT[2] 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 145.

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 136).

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

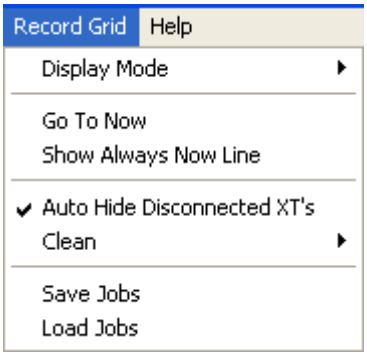
This parameter specifies how often the XML file will be saved to the default folder. When it is set to ‘0’, the Autosave option is not active.

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 XT[2] 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 124.

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 XT[2]s.

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 134).

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 134.

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:

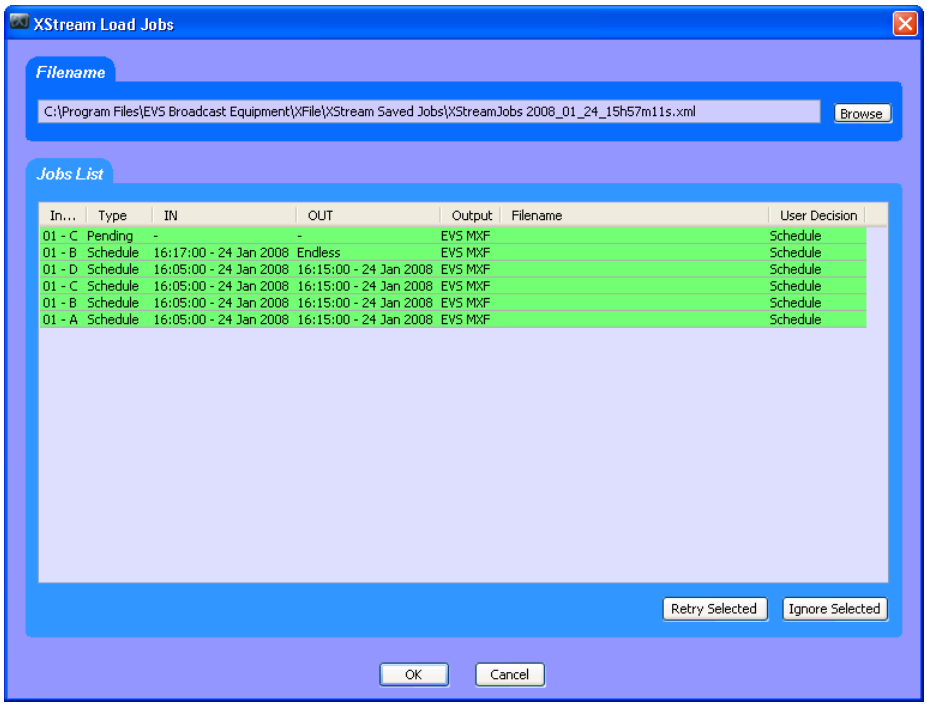
1. Select the Load Jobs command from the Record Grid menu.

   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 colours according to their status. For more information, see the section ‘Colour Codes in the Jobs List’, on page 139.



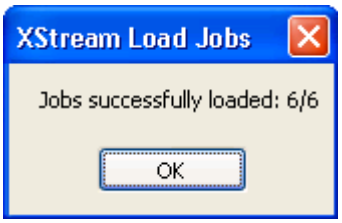
4. If you want some of the displayed jobs not to be loaded, select them with CTRL + click and select the Ignore Selected button.

   The background colour 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`

Colour Codes in the Jobs List

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

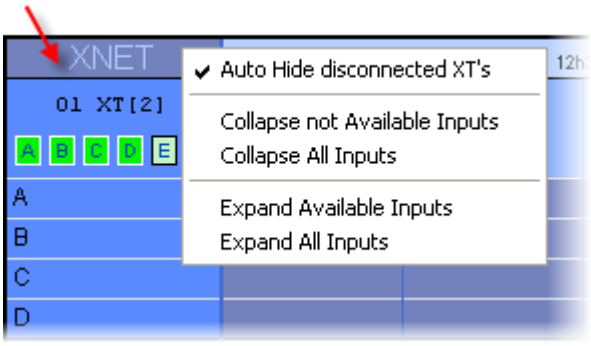
The following table explains the meaning of the different colour codes:

Colour	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 XT[2] 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

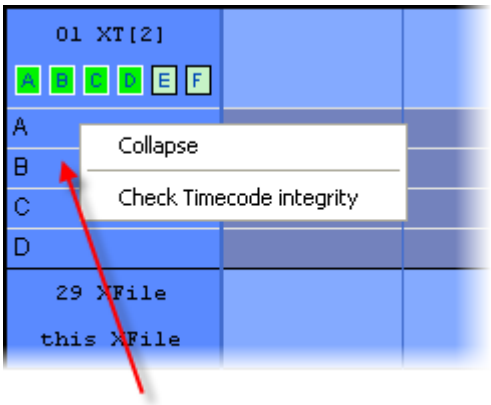
Different contextual menus are available from the time grid depending on where the right-click is performed:

4.8.1 CONTEXTUAL MENU FROM THE XNET LABEL



Command	Description
Auto-Hide Disconnected XTs	Select this option to hide or display the disconnected XT[2]s.
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 XT[2]s will not be displayed.

4.8.2 CONTEXTUAL MENU FROM THE CAMERA NAMES AREA

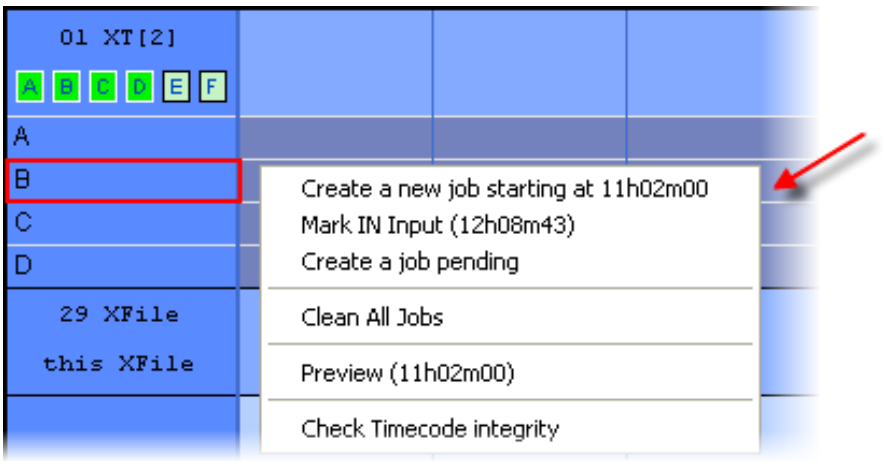


This contextual menu appears when you right click the mouse in the area where the camera names are displayed (see arrow on screenshot).

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 icon 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 XT[2] 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 145.

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 XT[2] 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 145.

4.8.4 CONTEXTUAL MENU FROM THE RIGHT OF THE SERVER NAME

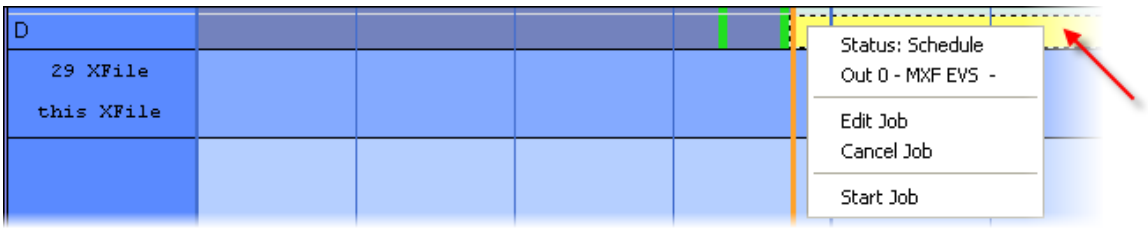
This contextual menu appears when you right click the mouse on the right of the server name and above the camera time grid (see arrow on screenshot).

The commands available from this contextual menu will apply to all cameras of the given XT[2] server. In the screenshot above, the commands will apply to Cam A to D of the XT[2] 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 XT[2] 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 XT[2] 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 XT[2] 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.

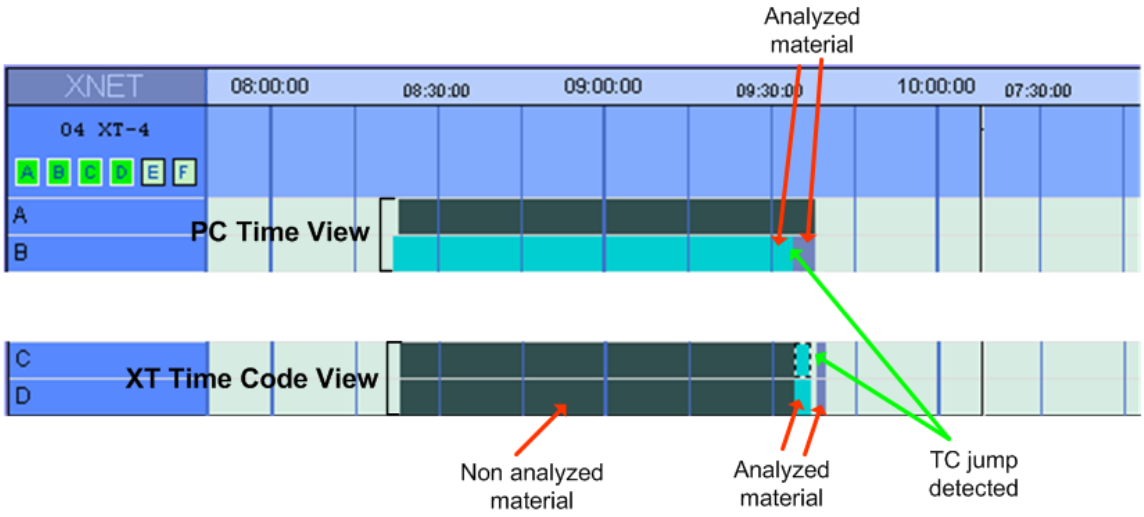
4.8.6 CHECK TIMECODE INTEGRITY

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 XT[2] 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 134).

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 colour 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:

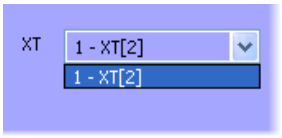
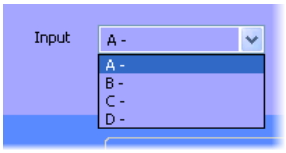
- by selecting **Edit** > **Add a New Job** from the top menu,

- by right-clicking in the time grid,
- by pressing 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 	XT[2] 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 XT 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 XT[2]. 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 XT[2] 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 bandwith 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.

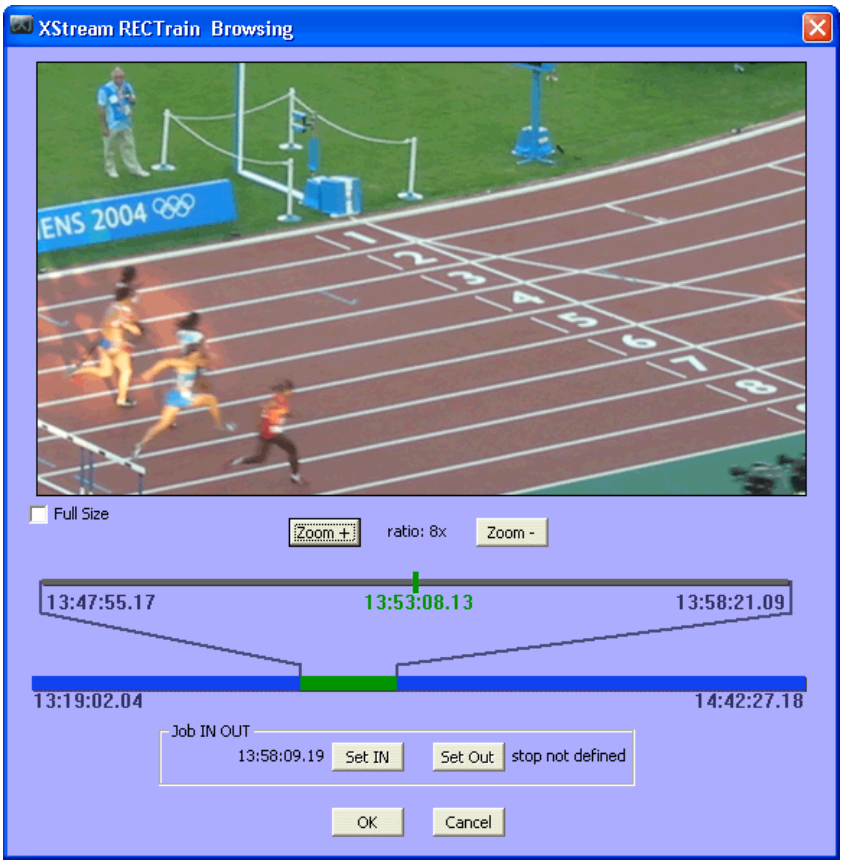
Duration

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.

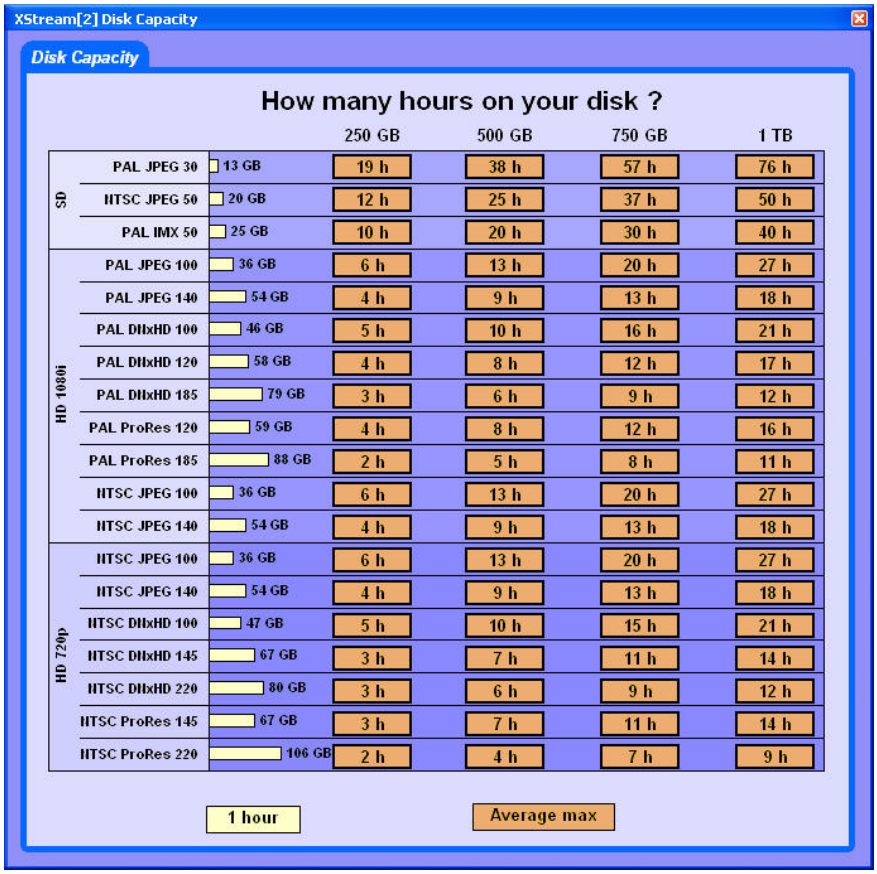
Clicking on the Browse button opens a second window with preview.



Note

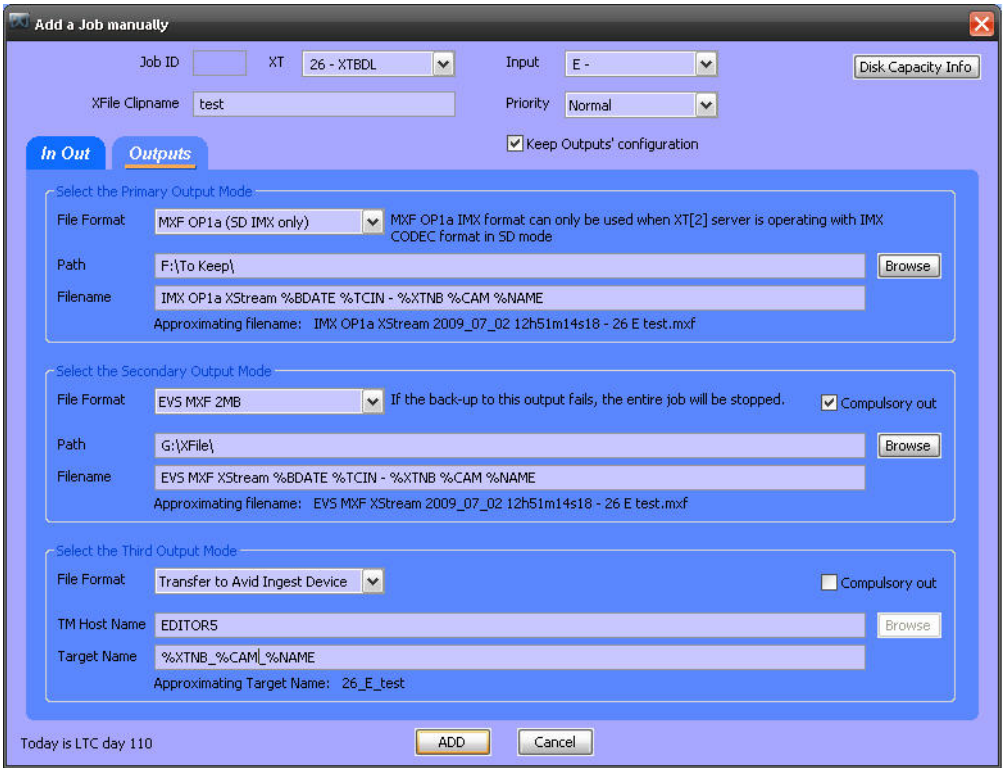
Prior to start recording files, check the disk capacity information by clicking Disk Capacity Info.

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 bandwith.



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

Six different output formats are available to save the files: EVS MXF 2 MB, MXF OP1a (SD IMX), Quick Time Movie, Quick Time Reference, direct transfer to Avid Transfer Manager (if installed) and Avid MXF OPAtom.

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 XT[2] 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 153
- section 'Setup in QuickStart Mode', on page 155
- section 'How to Start a Backup Job in QuickStart Mode', on page 152.

4.10.1 HOW TO START A BACKUP JOB IN QUICKSTART MODE

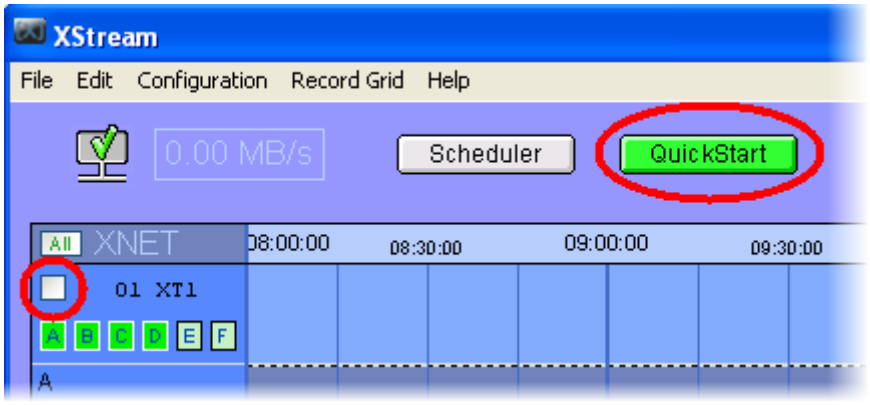
Note

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 155.

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 XT[2] server name of the XNet network:

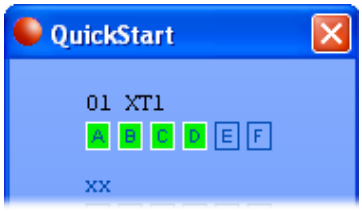


3. Click the check box next to the XT[2] server of which you want to back record train(s) up.

   The QuickStart dialog box opens.

4. Select the cameras you want to back up.

The selected cameras are displayed on a bright green background.



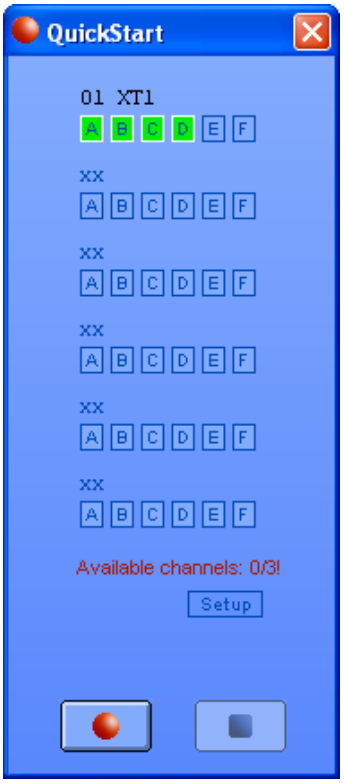
5. Click the Record button  to start the job.

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 XT[2] 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 XT[2] number and XT[2] name of the selected XT[2] server. This is a read-only field.
Recorder channel 	Allows (de)selecting the recorder channels of the specified XT[2] server of which the record trains will be backed up. By default, all recorder channels available in the given XT[2] 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 155
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 presses 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.

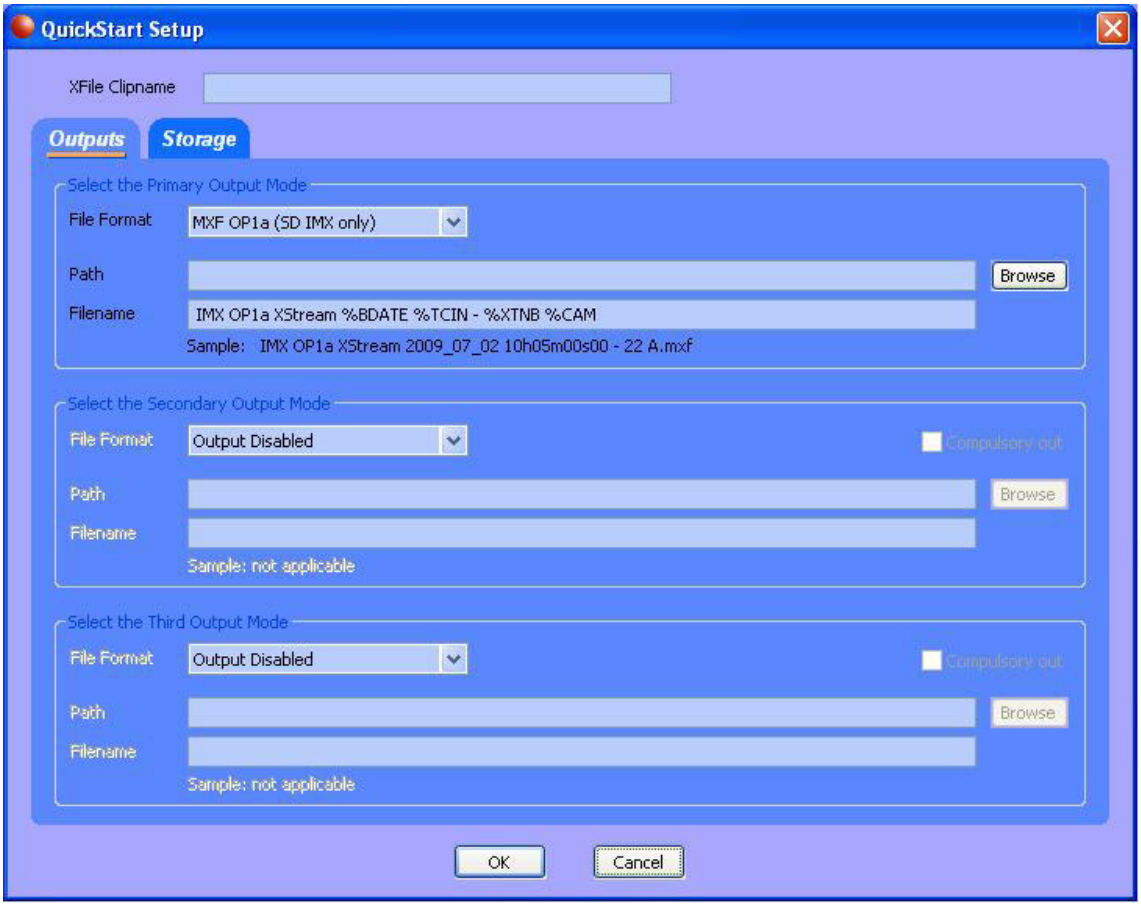
You can access the QuickStart Setup window by clicking the **Setup** button in the QuickStart dialog box.

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 bandwith.



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

Six different output formats are available to save the files: EVS MXF 2 MB, MXF OP1a (SD IMX), Quick Time Movie, Quick Time Reference, direct transfer to Avid Transfer Manager (if installed) and Avid MXF OPAtom.

Path

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

Filename

Allows specifying an automatic filename for each possible file format selected in the Output Mode group boxes.

See also section ‘Format String’ on page 132 and ‘How to Modify the Default Format String for the Filename’, on page 132.

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.

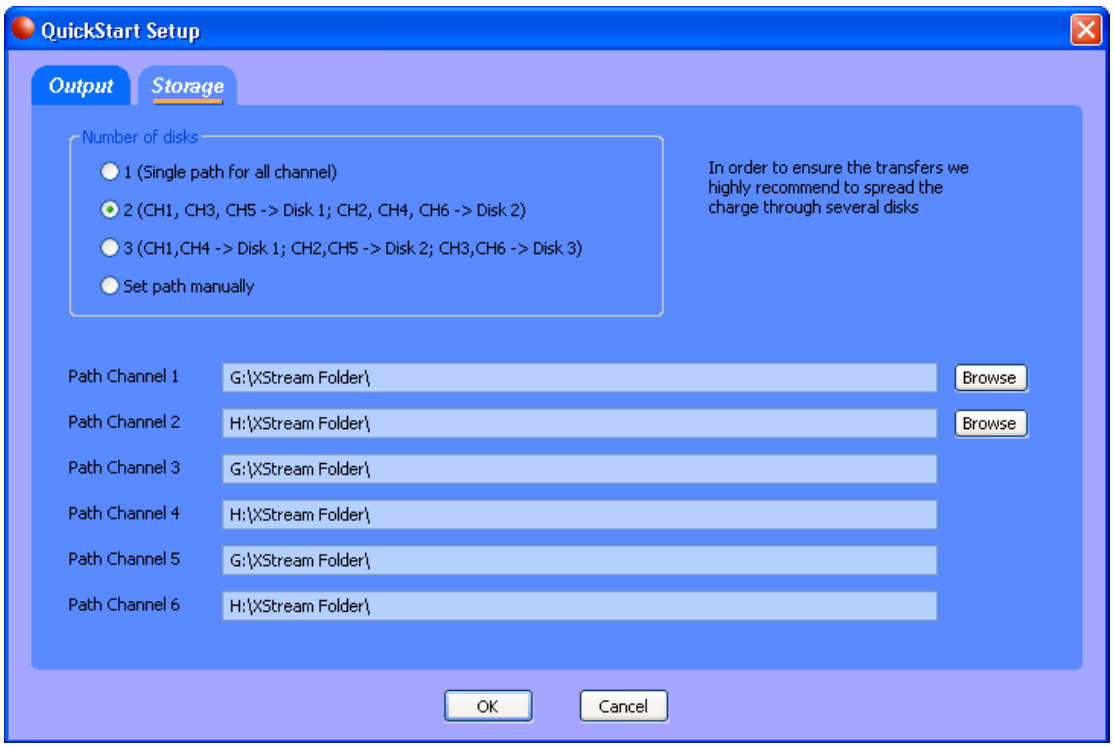
Output Mode

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.

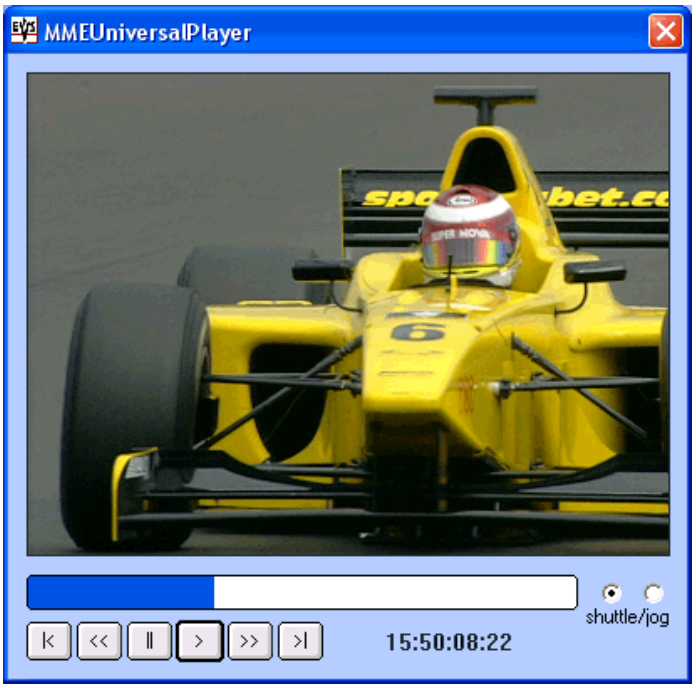
5. External modules

The different external modules are available from both XFILE and XSTREAM windows.

5.1 PREVIEW CLIP

Double-click on a clip in the list or press the Preview button. The MMEUniversal player module is loaded with the selected clip.

Use the command buttons to play back the clip, to search material, to review the clip frame by frame, etc.



Note

The MME player plays back the clip from the IN point to the OUT point.

When SSLM clips have been backed up in XFile with the **All Frames** option of the SuperMotion Backup Mode, the duration of the clip is two or three times longer, depending on whether the SSLM clip has been recorded from 2 or 3 cameras.

5.2 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 selecting a file/clip in the XFile list, use the right button of the mouse to access the contextual menu and select **Edit**:

The XFile Edit Clip window appears. It contains several tabs described below:

5.2.1 FILE INFO TAB

The first tab 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 

buttons to make a copy of a selected clip or to delete a clip into the MXF 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

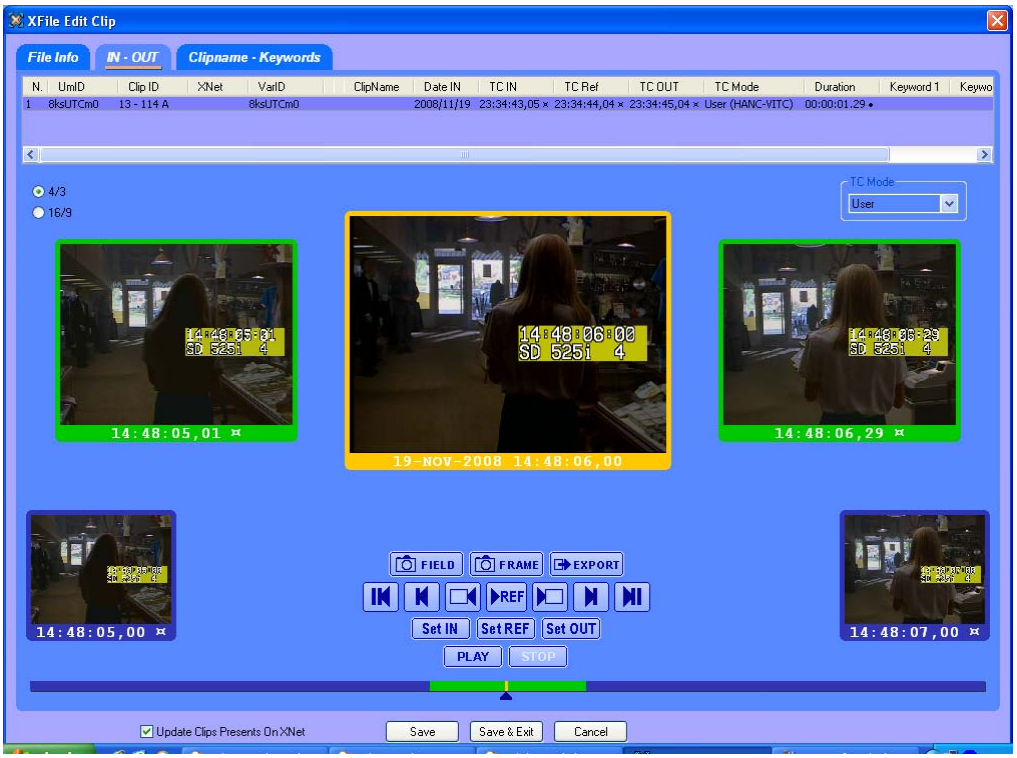
The MXF Doctor software is integrated to the Edit clip module. When editing a clip with a corrupted file index, the system automatically detects the error, notifies the user and starts the repair process. A progress bar appears in the file info tab while repairing the file.

5.2.2 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, etc.

Note

The time code information displayed in the XFile Edit Clip window is in LTC even if the clip has been created with VITC as primary time code.



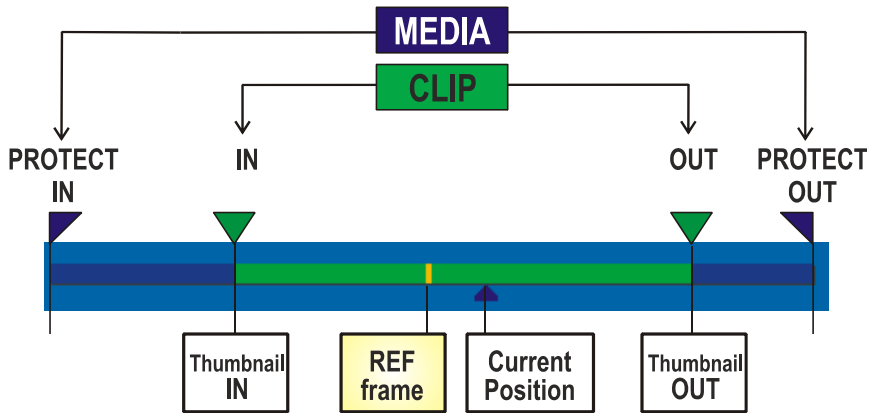
TC MODE

The TC Mode field allows selecting the time code to be dislayed 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 XT[2] server.
User Original	Time code defined as the user time code when the clip was recorded on the XT[2] server.
LTC	LTC time code redefined after the clip was recorded on the XT[2] 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 XT[2] 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



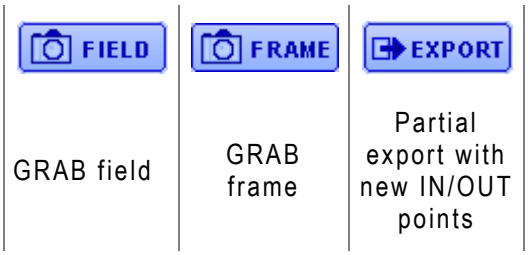
BUTTONS

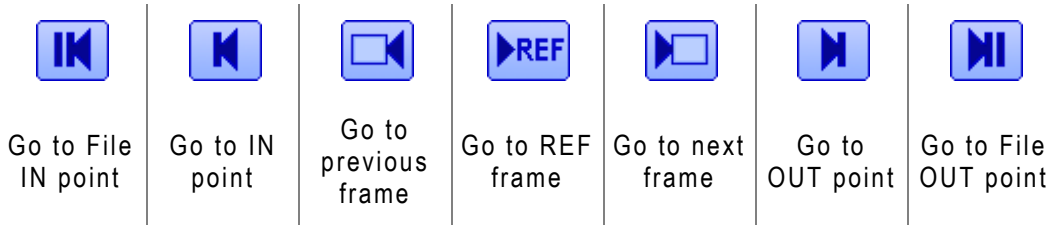
The first series of buttons gathers the GRAB & EXPORT functions.

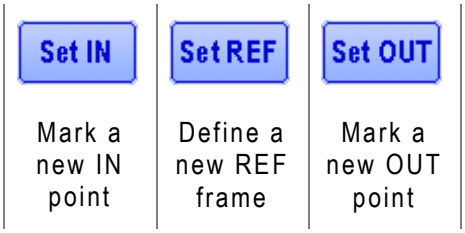
The second series of buttons gathers the SEARCH functions.

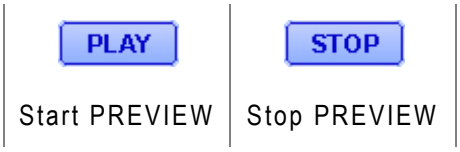
The third series of buttons gathers the commands which modify the clip.

The fourth series of buttons gathers the PREVIEW functions.







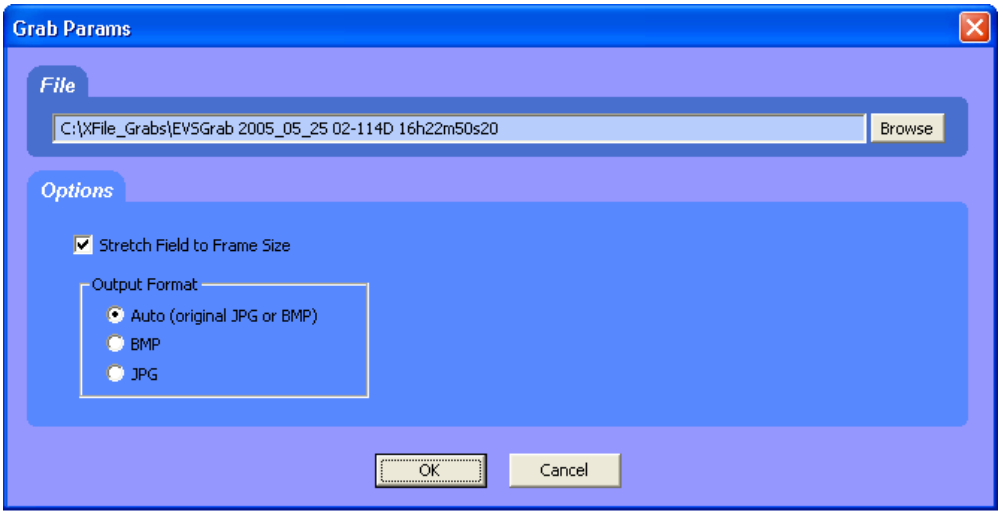


Note

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 5.3 ‘ShuttlePRO Use in Edit Clip Module’, on page 167.

5.2.3 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 press 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 pressed, 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.

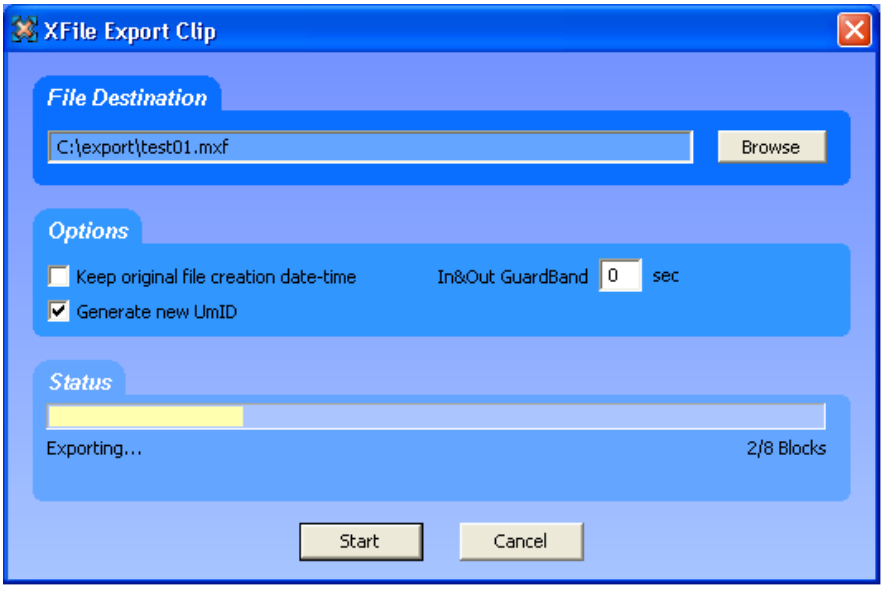
Note

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

5.2.4 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, press 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

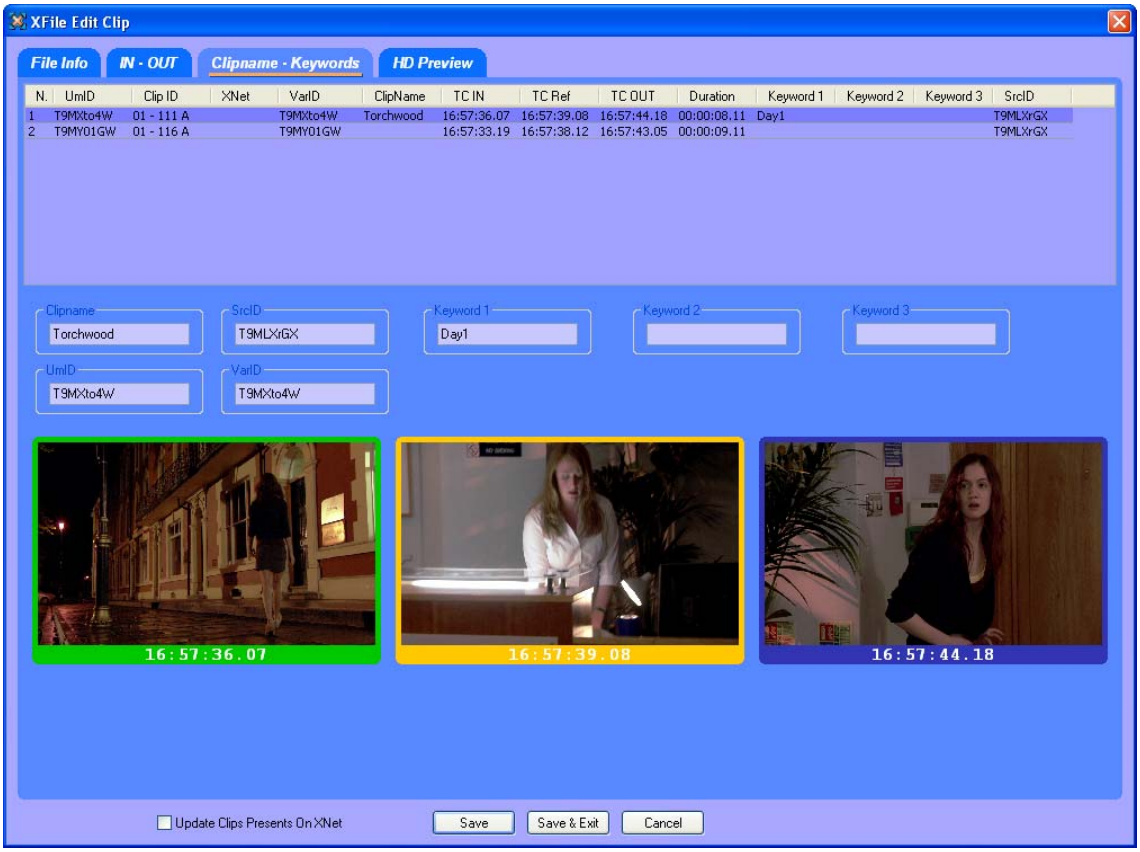
Set this option to generate a new UmID for the new clip created. (default)

Press the Start button to create the new file.

5.2.5 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.



Important

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: ☑ Update Clips Presents On XNet

The machine and position of the clip on the XNet are displayed in the XNet column:

XNet
02 - 027 A

5.2.6 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.

5.3 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.

5.3.1 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:

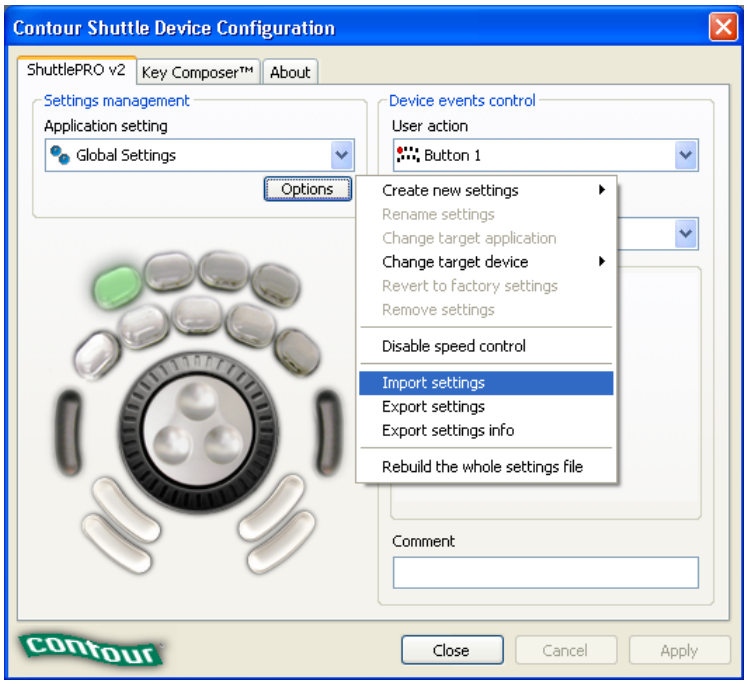
1. Double-click the executable file `cdi_shuttle_win_x.x.xx.exe` (x.x.xx correspond to the version number) delivered with the ShuttlePRO and follow the installation wizard.

2. When this is installed, right-click the ShuttlePRO icon on the right of the Application toolbar. A contextual menu opens.

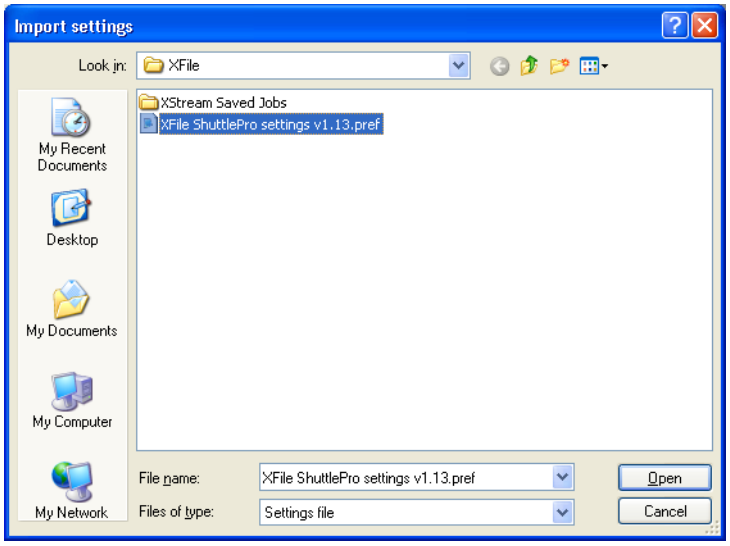
3. Select **Open Control Panel** from the contextual menu.

   The Shuttle Device Configuration window opens.

   In the ShuttlePRO tab, click the **Options** button and select **Import Settings** from the contextual menu:

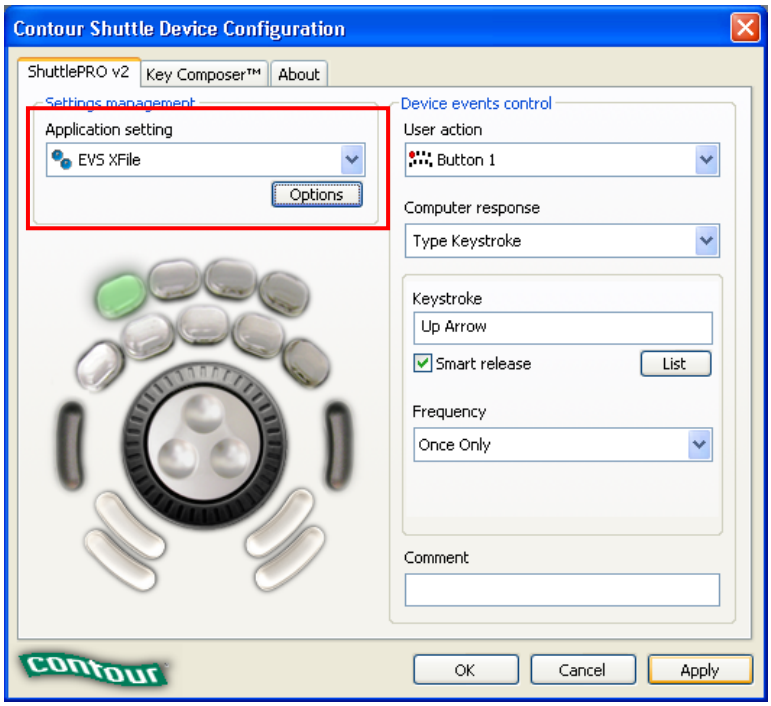


The Import Settings window opens:



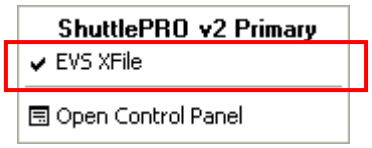
4. Select the file `XFile ShuttlePRO Settings Vx.xx.pref` (`Vx.xx` referring to the file version) that contains the ShuttlePRO settings to be loaded and click APPLY.

   The **Application Setting** field in the Shuttle Device Configuration window is updated with the reference to the XFile settings:



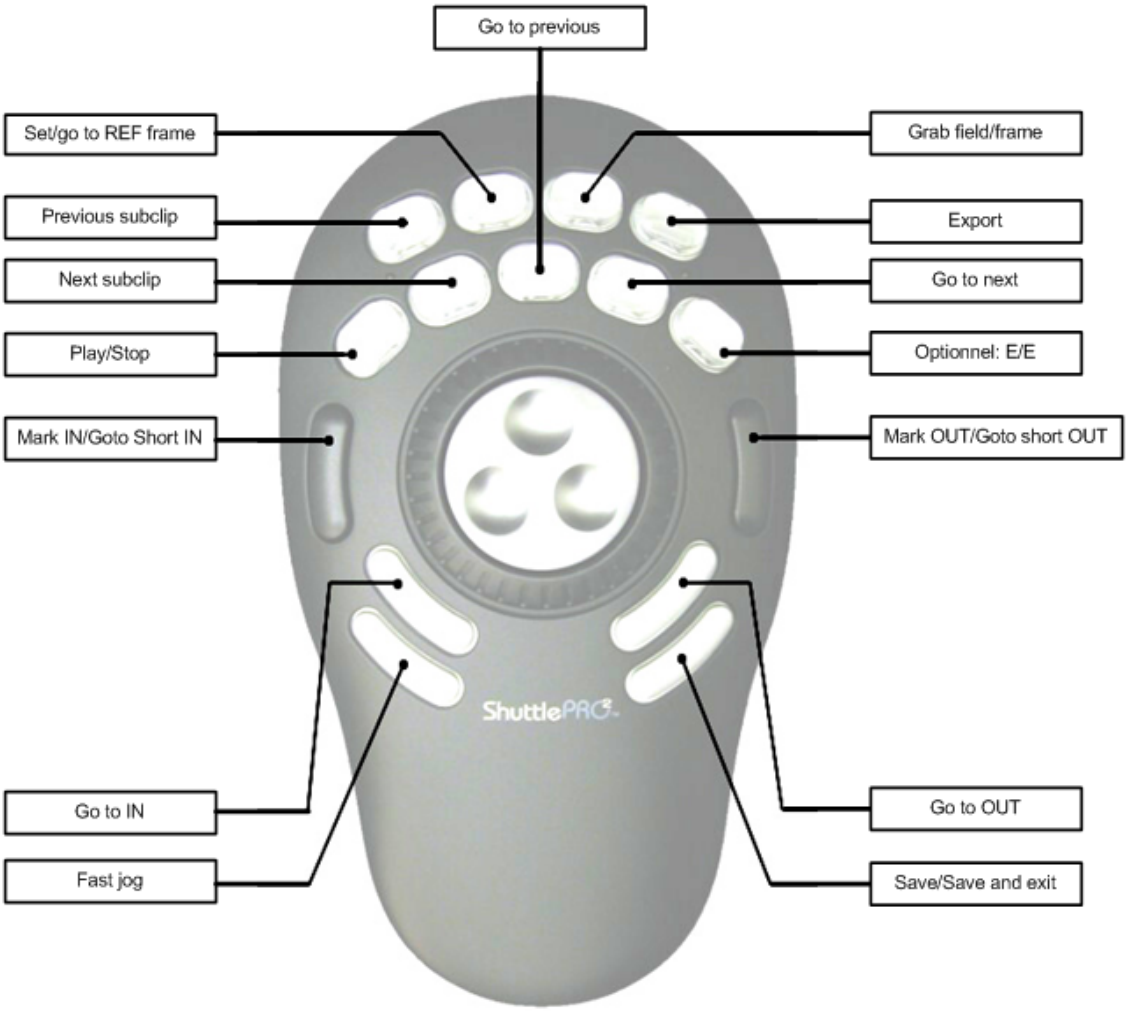
5. Click APPLY to confirm that the XFile settings are to be applied to the ShuttlePRO.

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:



5.3.2 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 Dommand	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

ShuttlePRO Dommand	Keyboard Shortcut	Command Description
		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.

5.4 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.

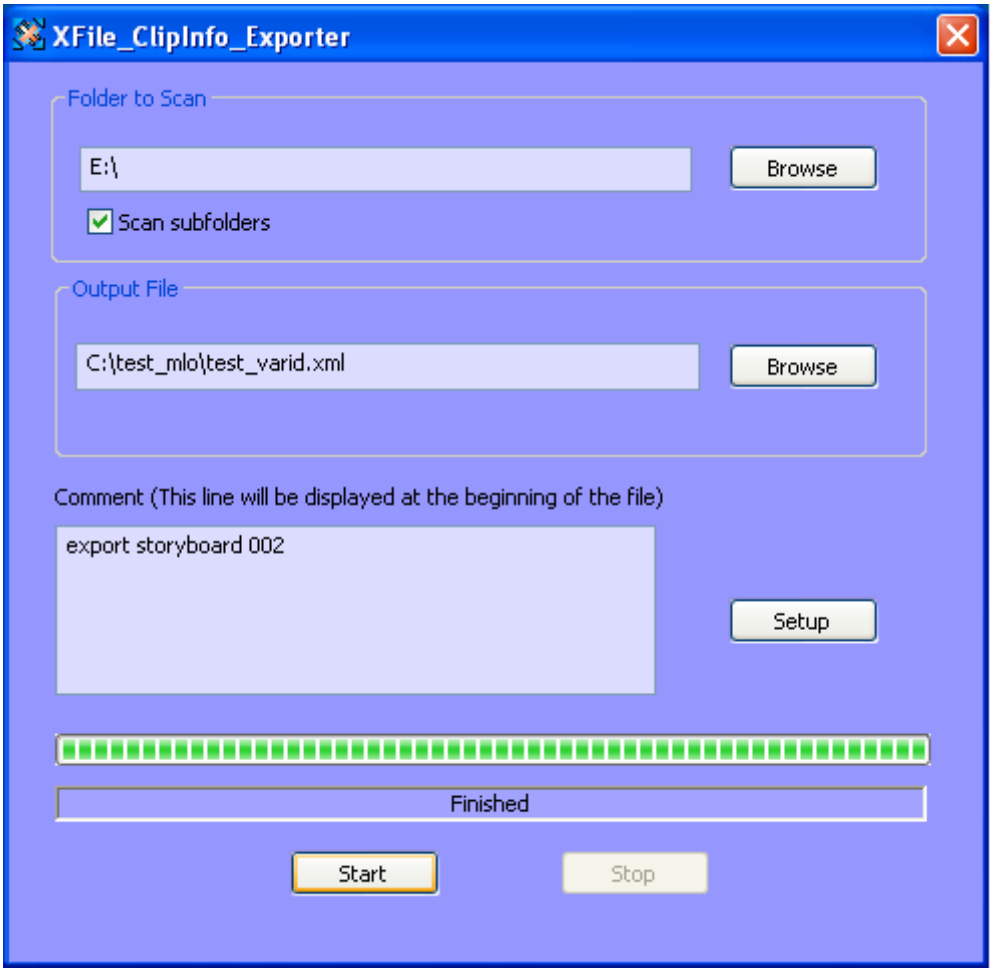
The user can access this module:

- 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.



5.4.1 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, press the START button to proceed to the file export.

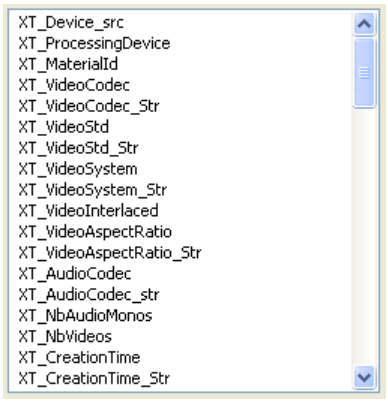
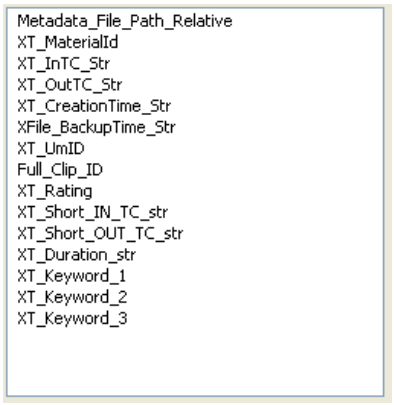
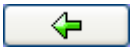
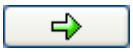
The new file is a standard TXT, XML or CSV file, which can be easily exported to any other software.

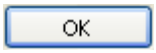
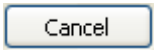
5.4.2 CONFIGURING THE XFILE CLIP EXPORTER

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:

5.4.3 FIELDS IN THE CONFIGURATION WINDOW

The following table describes the various fields in the Configuration window:

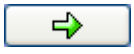
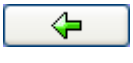
Field	Description
	Drop-down list box in which the user selects the separator to be used in the TXT and CSV files to separate the metadata values of a clip.
Left list box 	List of all selectable clip metadata.
Right list box 	Selection of clip metadata that will be exported to an output file.
	Button 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`.

Field	Description
	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.

5.4.4 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.

5.4.5 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 XFile_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.

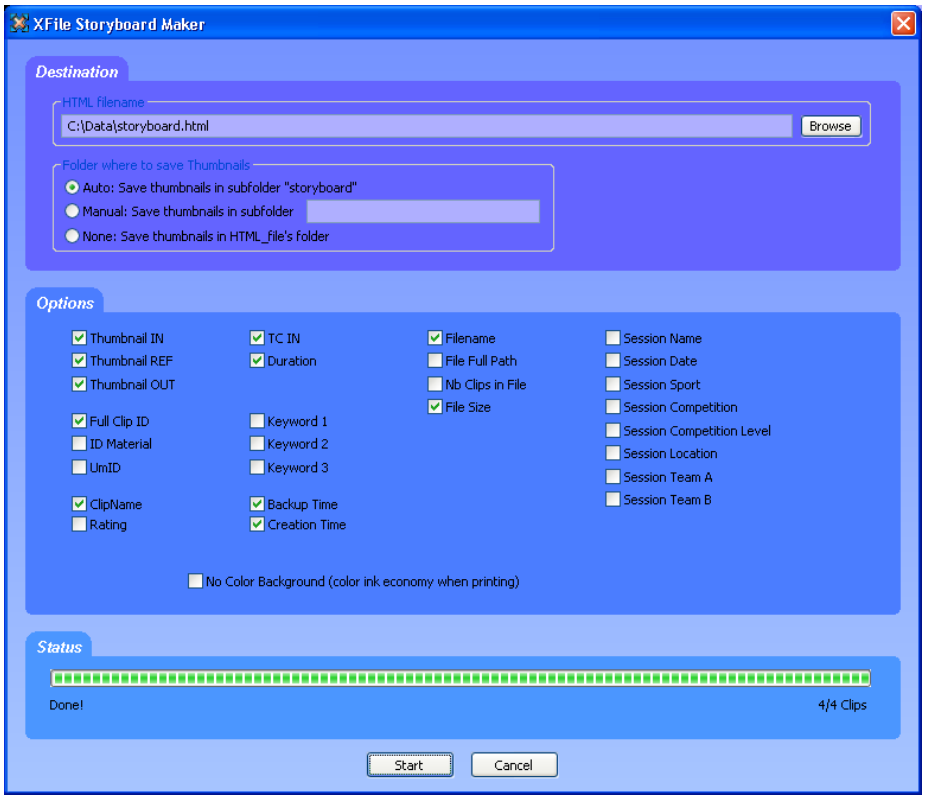
5.5 STORYBOARD

In the XFile List of the Maintenance mode, the **Storyboard** button is available for exporting data to HTML file format.

5.5.1 HOW TO EXPORT DATA TO HTML FILE (STORYBOARD)

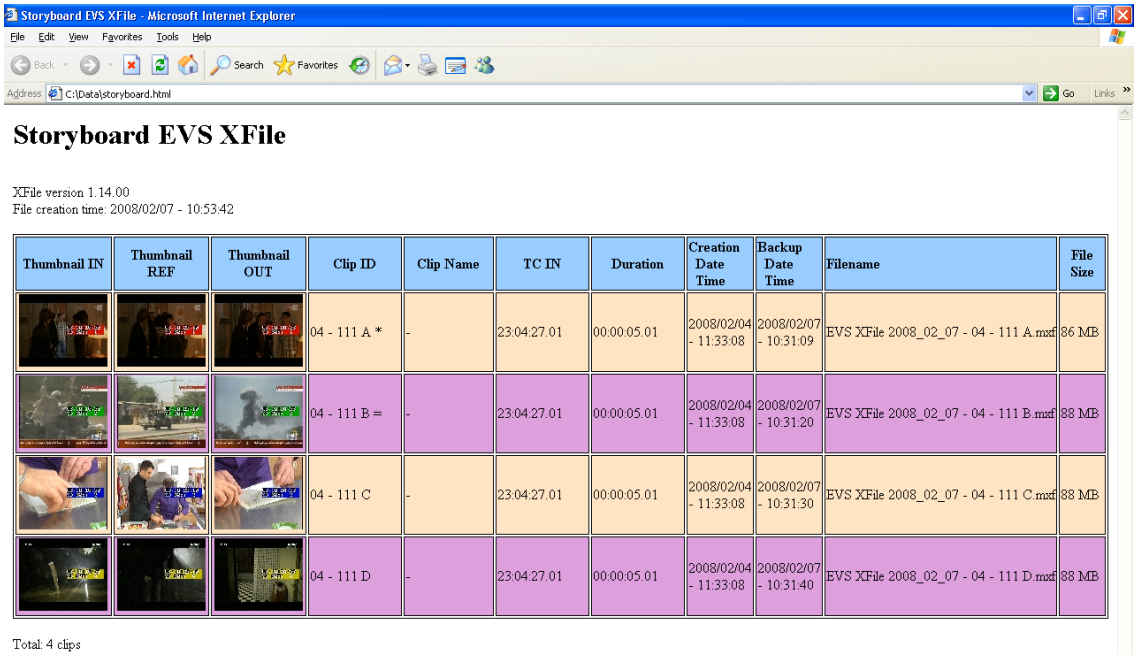
To export data to an HTML file, proceed as follows:

1. Press 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. Press 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: XF[2] Hardware

HARDWARE DESCRIPTION

The XFile software is installed in a workstation operating under Windows XP Pro. 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 XF[2] platform (formerly called XFile[2]) are housed in a 3U rack cabinet equipped with 2 x ATA 133 750GB Mobile Cartridges.

The XF[2] platform is included in the XNet in which XT[2] 6U, XT[2] 4U SpotBox and AirBox servers interact via SDTI network.

This XF[2] platform is also equipped with two additional Gigabit Ethernet adapters that support the jumbo frame mode for connections with the XT[2] 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 XF[2]. 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 184.
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, then insert it into the XF[2].

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 Unkown 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

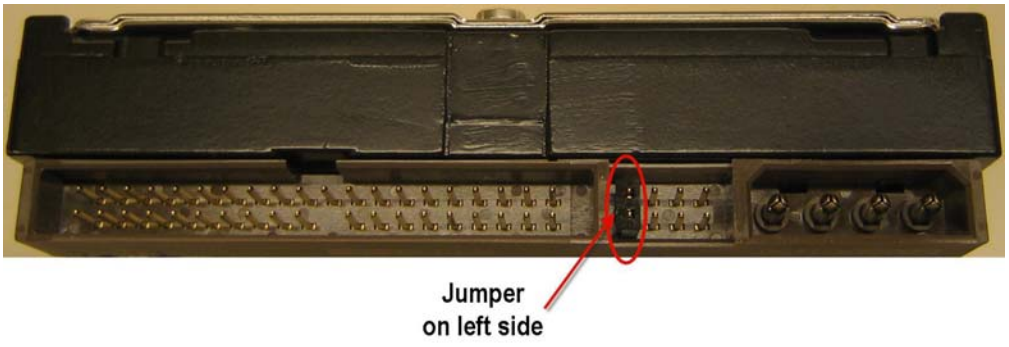
EVS provides the following hard disks. The table below specifies the hard disk reference, the capacity as well as information on how to configure it in master mode:

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.

Notes

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