

media[X]change



Video Transcoding and Wrapping Software



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1. Introduction

MediaXchange is the latest software application to bridge the gap between EVS world-renowned broadcast production servers and 3rd party tools. Whether in live production or in post-production, it helps to build a more transparent workflow by converting media between an EVS XT[2] server and other vendors' applications.

MediaXchange is the ideal complement to EVS Integrated Production System (IPS). Thanks to its support for the industry standard MXF file format, MediaXchange eases the transition to new environments.

For example, footage shot on Sony XDCAMTM Panasonic P2TM camcorders can be made directly available on EVS XT[2] series servers for live production with a maximum efficiency. As another example, content produced on an XT[2] server, can be re-edited on popular editors such as Apple Final Cut ProTM, AvidTM thanks to MediaXchange batch conversion processes.

1.1 KEY FEATURES

- Supports all popular codecs: MPEG-1, MPEG-2, MPEG-4, DV, DVCPRO-25/50, WM9, IMX-D10, M-JPEG, DVCPRO HD, XDCAM HD, Avid DNxHD® Codec.
- Interoperates with MXF and new video formats (P2[™], XDCAM[™]) in both low and high resolution
- Generation of sequence from graphic files & sequences
- Natively supports SD and HD (encoder mode)
- UP/DOWN conversion
- Seamlessly interfaces with popular Non-Linear Editors: Apple Final Cut Pro™, Avid™, etc.
- Advanced proxy generator
- Flexible workflow with powerful automation and batch processing interface
- Runs on a standard Windows XP[™] platform

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1.2 MEDIAXCHANGE FAMILY SPECIFICATIONS

1.2.1 INPUT (DECODER)

Туре	Wrapper	Video	Audio	Metadata	Status
DVCAM	MXF OP-1A, Frame wrapped	DVCAM.	AES3 – 16 bits – 2 mono channels	TC	ОК
DV AVI	AVI (type 2)	DV25	uncompressed – 16 bits – 2 mono channels		ОК
ІМХ	MXF OP-1A, frame wrapped	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	ТС	ОК
XDCAM HD	MXF OP-1a	XDCAM HD		тс	ОК
XDCAM sub (Proxy)	MXF OP-1A	MPEG-4 (Advanced real time Simple profile level 4).	A-law (8 kHz, 48 kbits/sec) – 16 bits		Not yet available
P2 HiRes DVCPRO2 5	MXF OP- ATOM, clip wrapped	DVCPRO 25	PCM – AES3 – 16 bits – 2 mono channels	ТС	ОК
P2 HiRes DVCPRO5 0	MXF OP- ATOM, clip wrapped	DVCPRO 50	PCM - AES3 - 16 bits - 2 mono channels	ТС	ОК
P2 LoRes	Quicktime extended – as defined in the MPEG-4 ISO standard	MPEG-4 (Advanced real time Simple profile level 4)	16 bits – 24 kHz		Not yet available
DV 25 AVI	AVI (type 2)	DV 25	PCM – 16 bits – 2 mono channels		ОК
DV 25 Quick Time	Quick Time	DV 25	Uncompressed – 16 bits (SOWT: bytes inverses) –	ТС	ОК

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Туре	Wrapper	Video	Audio	Metadata	Status
			2 mono channels		
DV 25 Raw	None	DV 25	PCM - 16 bits - 2 mono channels		ОК
DVCPRO 25 AVI	AVI (type 2)	DVCPRO 25	PCM - 16 bits - 2 mono channels		ОК
DVCPRO 25 QuickTim e	QuickTime	DVCPRO 25	Uncompressed – 16 bits (SOWT: bytes inverses) – 2 mono/stereo channels	ТС	ОК
DVCPRO 25 Raw	None	DVCPRO 25	PCM – 16 bits – 2 mono channels		ОК
DVCPRO 50 AVI	AVI (type 2)	DVCPRO 50	PCM – 16 bits – 4 mono/stereo channels		ОК
DVCPRO 50 QuickTim e	QuickTime	DVCPRO 50	Uncompressed – 16 bits (SOWT: bytes inverses) – 2 mono/stereo channels	ТС	ОК
DVCPRO 50 Raw	None	DVCPRO 50	PCM – 16 bits – 4 mono channels		ОК
DVCPRO HD Quick Time	Quick Time	DVCPRO HD	PCM – 16 bits – 2 mono/stereo channels	ТС	ОК
EVS MXF SD	MXF Proprietary	MJPEG (Huffman tables not included)	uncompressed – 24 bits – 4 or 8 mono channels	TC, ClipName , Keywords	OK for decoding, DPS conversion, QT conversion
EVS QT SD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono/stereo channels	ТС	OK for conversion to EVS MXF SD
EVS MXF HD	MXF Proprietary	MJPEG (Huffman tables not included) – 1 band	uncompressed – 24 bits – 4 or 8 mono channels	TC, ClipName , Keywords	OK for decoding, QT conversion
EVS QT HD	QuickTime	MJPEG-A	PCM - 16 bits - 2 mono channels	ТС	OK for conversion to EVS MXF HD
MPEG-1	PS or TS	MPEG-1	MPEG-1 Layer 2 -	ТС	ОК

Туре	Wrapper	Video	Audio	Metadata	Status
			16 bits		
MPEG-2	PS or TS	MPEG-2 (MP@ML)	MPEG-1 Layer 2 – 16 bits	ТС	ОК
IMX OP- 1a	MXF OP-1a	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	ОК
IMX EVS MXF	MXF EVS	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	ОК
IMX Quick Time	Quick Time	D10 (IMX)	4 mono channels - AES3 – 16 bits 2 mono/stereo channels	TC	ОК
DPS Velocity	DPS, DVA	MJPEG (DPS)	uncompressed – 24 bits – 2 mono channels (DVA)	TC (in DVA file)	OK, only to EVS MXF SD
Avid DNxHD® Decoder MXF EVS	MXF EVS	Avid DNxHD® Codec	8 audios channels	ТС	ОК
Pictures	BMP, TGA, TIFF	Bitmap			ОК

1.2.2 OUTPUT (ENCODER)

Туре	Wrapper	Video	Audio	Metadata	Status
DVCAM	MXF OP-1A, Frame wrapped	DVCAM.	AES3 – 16 bits – 2 mono channels	TC	ОК
DV AVI	AVI (type 2)	DV25	uncompressed – 16 bits – 2 mono channels		ОК
ІМХ	MXF OP-1A, frame wrapped	D10 (IMX)	4 mono channels - AES3 - 16 or 24 bits 8 mono channels - AES3 - 16 bits	TC	ОК
XDCAM HD	MXF OP-1a	XDCAM HD	2 audios channels only	ТС	ОК
XDCAM sub (Proxy)	MXF OP-1A	MPEG-4 (Advanced real time Simple profile level 4).	A-law (8 kHz, 48 kbits/sec) – 16 bits		Not yet available
P2 HiRes DVCPRO25	MXF OP-ATOM, clip wrapped	DVCPRO 25	PCM – AES3 – 16 bits – 2 mono channels	TC	ОК
P2 HiRes DVCPRO50	MXF OP-ATOM, clip wrapped	DVCPRO 50	PCM – AES3 – 16 bits – 2 mono channels	TC	ОК
P2 LoRes	Quicktime extended – as defined in the MPEG-4 ISO standard	mpeg4 (Advanced real time Simple profile level 4)	16 bits – 24 kHz		Not yet available
DV 25 AVI	AVI (type 2)	DV 25	PCM – 16 bits – 2 mono channels		ОК
DV 25 Quick Time	Quick Time	DV 25	Uncompressed – 16 bits (SOWT: bytes inverses) – 2 mono channels	TC	ОК
DV 25 Raw	None	DV 25	PCM – 16 bits – 2 mono channels		ОК
DVCPRO 25 AVI	AVI (type 2)	DVCPRO 25	PCM – 16 bits – 2 mono channels		ОК
DVCPRO 25 QuickTime	QuickTime	DVCPRO 25	Uncompressed – 16 bits (SOWT: bytes inverses) – 2 mono/stereo channels	TC	ОК
DVCPRO 25 Raw	None	DVCPRO 25	PCM – 16 bits – 2 mono channels		ОК
DVCPRO 50 AVI	AVI (type 2)	DVCPRO 50	PCM – 16 bits – 4 mono channels		ОК
DVCPRO 50	QuickTime	DVCPRO 50	Uncompressed – 16 bits (SOWT: bytes	ТС	ОК

Туре	Wrapper	Video	Audio	Metadata	Status
QuickTime			inverses) – 2 mono/stereo channels		
DVCPRO 50 Raw	None	DVCPRO 50	PCM – 16 bits – 4 mono channels		ОК
DVCPRO HD Quick Time	Quick Time	DVCPRO HD	PCM – 16 bits – 2 mono/stereo channels	TC	ОК

Туре	Wrapper	Video	Audio	Metadata	Status
EVS MXF SD	MXF Proprietary	MJPEG (Huffman tables not included)	uncompressed – 24 bits – 4 or 8 mono channels	тс	OK for encoding, DPS conversion, QT conversion
EVS QT SD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono channels	TC	OK for conversion to EVS MXF SD
EVS MXF HD	MXF Proprietary	MJPEG (Huffman tables not included) – 1 band	uncompressed – 24 bits – 4 or 8 mono channels	TC	OK for encoding, QT conversion
EVS QT HD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono/stereo channels	ТС	OK for conversion to EVS MXF HD
MPEG-1	PS or TS	MPEG-1	MPEG–1 Layer 2 - 16 bits	ТС	ОК
MPEG-2	PS or TS	MPEG-2 (MP@ML)	MPEG-1 Layer 2 - 16 bits	TC	ОК
MPEG-4	Windows Media	MPEG-4	WM audio 9 - 2 mono channels		ОК
IMX OP-1a	MXF OP-1a	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	ОК
IMX EVS MXF	MXF EVS	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	ОК
IMX Quick Time	Quick Time	D10 (IMX)	4 mono channels - AES3 – 16 bits – 2 mono/stereo channels	тс	ОК
DPS Velocity	DPS, DVA & WAV	MJPEG (DPS)	uncompressed – 24 bits – 2 mono (DVA) channels or 4 monos (DVA+WAV)	TC, ClipName, Keywords (optional – registry key) (DVA)	OK, only from EVS MXFSD
WM 7o	Windows Media	WM 7	WM audio 7 - 2 mono channels		ОК
WM 80	Windows Media	WM 8	WM audio 8 - 2 mono channels		ОК

Туре	Wrapper	Video	Audio	Metadata	Status
WM 90	Windows Media	WM 9	WM audio 9 - 2 mono channels		ОК
Avid DNxHD® Encoder MXF EVS	MXF EVS	Avid DNxHD® Codec	8 audios channels	TC	ОК

2. Hardware Recommendations

The MediaXchange software is installed on a workstation operating under Windows XP or Windows 2003 server.

The minimum system requirements are:

- Workstation or laptop
- XP Pro or Windows 2003 server OS
- CPU Pentium P4, 2.0 Ghz +
- 512 MB RAM
- GigE connector compatible Jumbo Frame
- USB2 connector (for P2 link)
- VGA 1024x768

The MediaXchange software runs either on a standalone workstation or EVS XFile & XStore servers.

3. Software Installation

A new installation procedure has been set up since the release 1.14.20.

- EVSEditFramework: MediaXchange no longer uses the EVS Edit framework installed on the computer (in case it is installed). This new version of MediaXchange uses his own framework DLLs which are installed with the installshield. This installshield installs all the DLLs except the DV, DVCPRO HD and MPEG codecs that must be installed separately.
- Encoder DII (DV,DVCPRO,Mpeg): All Encoder DII are including into the MediaXchange installshield.
- XSecure: From version 1.06.02 onwards, XSecure will be used instead of the Dallas dongle to secure MediaXchange software. XSecure is automatically installed with MediaXchange installshield.

3.1 PROCEDURE

3.1.1 PREVIOUS VERSIONS CLEAN-UP

- 1. Uninstall previous versions of MediaXchange.
- For version older than v1.08.04, delete the MediaXchange and EVSEditFramework directories in C:\Program Files\EVS Broadcast Equipment\. In the registry, suppress following keys:
 - a. \HKEY_CURRENT_USER\Software\EVS Broadcast Equipment\MediaXchange
 - b. \HKEY_LOCAL_MACHINE\Software\EVS Broadcast Equipment\EvsEdit Framework\

3.1.2 MEDIAXCHANGE INSTALLATION

- Copy all the files in the installshield directory in a temp directory (e.g. C:\Install Software\MediaXchange\).
- 2. Run MediaXchange installshield MXC_setup_1.15.15.exe and follow the steps of the Setup Wizard.



3. Press NEXT.

🔀 Setup - MediaXChange	
Select Destination Location Where should MediaXChange be installed?	
Setup will install MediaXChange into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\EVS Broadcast Equipment\MediaXChange	
At least 7,9 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext >	Cancel

4. Select the destination directory to install the new software and press NEXT.

🞼 Setup - MediaXChange		
Select Components Which components should be installed?		
Select the components you want to install; clear Click Next when you are ready to continue.	the components you do not want to insta	II.
Custom installation		*
MediaXchange components Install MS libraries [only requested for first i	nstall] ٤	3,1 MB
Current selection requires at least 33,1 MB of di	sk space.	
	< <u>B</u> ack <u>N</u> ext>	Cancel

5. Select "Install MS libraries" if you install MediaXchange 1.15.15 for the first time. This option will install the Visual C++ 2005 redistributable DLLs, which are used in MediaXchange.

🔂 Setup - MediaXChange	
Ready to Install Setup is now ready to begin installing MediaXChange on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\EVS Broadcast Equipment\MediaXChange	^
Setup type: Custom installation	
Selected components: MediaXchange components	
	~
< <u>B</u> ack Install Ca	ancel

6. Press INSTALL to launch the MediaXchange installation.



7. XSecure Manager will be installed now. Press NEXT.

🕼 Setup - XSecure Manager	
Select Destination Location Where should XSecure Manager be installed?	
Setup will install XSecure Manager into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\EVS Broadcast Equipment\XSecure Browse	
At least 2.1 MP of free disk appear is required	
At least 2,1 Mb of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > Canc	el

8. Select the destination directory to install the new software and then press NEXT.

🕫 Setup - XSecure Manager	×
Select Start Menu Folder Where should Setup place the program's shortcuts?	3
Setup will create the program's shortcuts in the following Start Menu folder.	
EVS Broadcast Equipment Browse Browse	
- Rack Nexts Connect	7

9. Select the Start Menu Folder for XSecure Manager. Press NEXT.

🕞 Setup - XSecure Manager	
Ready to Install Setup is now ready to begin installing XSecure Manager on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\EVS Broadcast Equipment\XSecure	
Start Menu folder: EVS Broadcast Equipment	
<	>
< <u>B</u> ack Install	Cancel

10. Press INSTALL to begin the installation.



The XSecure software installation is successfully completed.



The MediaXchange software installation is successfully completed. Note that a shortcut to the MediaXchange application has been automatically created on the desktop.

4. XSecure License Keys

From MediaXchange v.1.06.02, XSecure is used instead of the Dallas dongle to secure MediaXchange software. XSecure is automatically installed with MediaXchange installshield.

XSecure uses hardware information from the device where MediaXchange is running. This means it is impossible to exchange licenses or codes between devices.

Please refer to the XSecure User's Manual to:

- Start XSecure Manager
- Collect information about your device
- Request a license key from the EVS support
- Import new licenses keys

4.1 MEDIAXCHANGE SOFTWARE OPTIONS

Since MediaXchange 01.15.15 there are only two options:

- MXCBP 10: Base Package: it is mandatory to run MediaXchange and it allows you to use all the Wrapper conversion (all the old NLE interface XSecure code).
 - <u>MJPEG EVS to MJPEG Quick Time:</u> to convert an MJPEG EVS MXF file to MOV QuickTime format
 - <u>MJPEG QuickTime to MJPEG EVS</u>: to convert MJPEG MOV Quick Time format to EVS XT MXF format.
 - <u>IMX EVS to IMX MXF OP1A</u>: to convert an IMX EVS MXF file to MXF OP1A format
 - <u>IMX MXF OP1A to IMX EVS:</u> to convert an IMX MXF OP1A file to IMX EVS format
 - <u>IMX EVS to IMX Quick Time:</u> to convert an IMX EVS MXF file to Quick Time format
 - <u>IMX Quick Time to IMX EVS:</u> to convert an IMX Quick Time file to IMX EVS format
 - AVID DNXHD® EVS to Quick Time: to convert a AVID DNXHD® EVS

MXF file to Quick Time format

- <u>AVID DNXHD® Quick Time to EVS:</u> to convert a AVID DNXHD® Quick Time file to EVS MXF format
- <u>EVS to EVS 2MB Blocks:</u> to convert file to EVS MXF 2MB Blocks format
- <u>Apple ProRes EVS to Quick Time:</u> to convert a ProRes EVS MXF file to Quick Time format
- <u>Apple ProRes Quick Time to EVS:</u> to convert a ProRes Quick Time file to ProRes EVS format
- MXC 00: All Option: It allows using all the codec in decoding (import) and encoding (export).
 - <u>M-JPEG (EVS XT)</u>: to encode in EVS M-JPEG compatible with XT server family.
 - <u>DV Family</u>: to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
 - DVCPRO HD: to encode using DVCPRO HD format
 - IMX- D10: to convert to IMX format
 - MPEG2: to convert to MPEG-2 formats.
 - <u>MPEG1:</u> to convert to MPEG-1 formats.
 - <u>XDCAM HD:</u> to convert to XDCAM HD compliant XDCAM HD.
 - <u>Windows Media:</u> to convert to Windows Media family formats (WM9, MPEG-4)
 - <u>Avid DNxHD® Encoder</u>: To convert to Avid DNxHD® Encoder.

5. System Configuration

The system configuration is available for modifications from the Tools menu. Two levels of configuration are defined: General Settings and Codecs Settings.

5.1 GENERAL SETTINGS

General Settings
History Logs Image: Use History Files Image: Use a single history file (otherwise daily files are created) Output Path :
Scan Mode File Date Criteria: File Modification Date ✓ Use File Date / Time Start Date/Time : 20 oct. 2008 14:27:27 ✓ Process Oldest first File Creation Delay (min.): 0
TXT Files Image: Create TXT file (required for Scan Mode) Image: Use a single TXT output path TXT Path: Image: Construction of the state
EVS Trimming Graphic Files Encoding Trimming Mode: File In/Out Guard Bands : 0 fields Duration : 00:01:00:00 Enable Audio
Post Processing Image: Enable Post Process Image: PostProcess Template: C:\Program Files\EVS Broadcast Equipment\MediaXChange\PostProces Template Output Path:
Miscellanous Image: Use Smart Rendering for PLST Serial Number: 12340 Image: Use Show CPU activity [Value between 1 and 16333] Encoded Audios:
OK

5.1.1 HISTORY LOGS

Use History Files:

Select this option to generate history files. An history file is a kind of as-run log which logs the following elements for each job:

- date and time of the start and the end of the process
- type of conversion
- source file
- destination file.

Use a single history file:

Select this option to merge all history logs into a single file. Otherwise, daily files are generated.

Output Path:

The Output Path field defines the path where the history files are stored.

The path can be modified manually or by browsing the folders. If no path is defined, the files will be stored in the current directory of MediaXchange software (typically C:\Program Files\EVS Broadcast Equipment\MediaXchange\).

5.1.2 SCAN MODE

Auto Start Scan Mode:

Check this option to start the scan mode automatically after launching MediaXchange. For additional information, see Section 7.3 'Scan Mode' on page 81.

Use File Date/Time:

Select this option to use the **Date/Time** criteria. Otherwise the scan mode will automatically scan the given directory without taking into account the date and time of the file and workstation. See also Section 7.3.3 'Conversion Criteria', on page 86).

• File Date Criteria: The Scan Mode scans files in directories and the decision of conversion is based on several criteria. One of the criteria is based on the Windows properties of the file to be converted. Select either File Creation Date or File Modification Date.



Тір

As XFile can update metadata information after backup of EVS MXF file, the modification date can change really often. In order to avoid untimely file conversion, it is advised to select this option.

- Start Date/time: Choose the date by browsing the Windows calendar. Time is related to Windows time. Check the format is 24h, and not 12h AM/PM.
- Delay (min.): Typical value: 0

See conversion criteria defined below to setup correctly these timing parameters.

MISCELLANEOUS

Process oldest first:

Check this option to start with the oldest file to be scanned in the directory, otherwise alphabetic order is taken into account.

TXT FILES

Create TXT File:

Select this option to generate a TXT file. This option must be selected in Scan Mode to work properly.

This TXT file contains all the information related to the successive conversions applied to the related source file.

Use a Single TXT Output Path:

Check this option to use the TXT path defined below.

TXT Path:

Browse and select the path where the TXT file will be stored. If no path is defined, the TXT file will be located in the same directory as the data file.

Example of TXT File:

[M2005/07/13 16:23:44 (Mpeg)]

STATUS = Terminated MACHINE = DVBCLIENT1057 SOURCE PATHNAME = C:\test050712\source\PAL_3.mxf DEST PATHNAME = C:\test050712\mpeg2\PAL_3.m2t STARTDATETIME = 13/07/2005 16:23:44 STOPDATETIME = 13/07/2005 16:24:12 CODEC = Mpeg SETTINGS = <EVSEncoderCfg> <VType>MPEG-2</VType> <FType>TS</FType> <GopN>2</GopN> <GopM>1</GopM> <VRate>15000000</VRate> <ARate>256000</ARate> <Stereo>1</Stereo> <InitialTC>00:00:11.20</InitialTC></EVSEncoderCfg>

```
[M2005/07/13 16:24:21 (EVS XT to QuickTime)]
```

STATUS	=	Terminated
MACHINE	=	DVBCLIENT1057
SOURCE PATHNAME	=	C:\test050712\source\PAL_3.mxf
DEST PATHNAME	=	C:\test050712\mpeg2\PAL_3.mov
STARTDATETIME	=	13/07/2005 16:24:21
STOPDATETIME	=	13/07/2005 16:24:30
CODEC	=	EVS XT to QuickTime
SETTINGS	=	

[M2005/07/13 16:24:34 (EVS XT to Leitch Velocity)]

STATUS	=	Terminated
MACHINE	=	DVBCLIENT1057
SOURCE PATHNAME	=	C:\test050712\source\PAL_3.mxf
DEST PATHNAME	=	C:\test050712\mpeg2\PAL_3.dps
STARTDATETIME	=	13/07/2005 16:24:34
STOPDATETIME	=	13/07/2005 16:24:43
CODEC	=	EVS XT to Leitch Velocity
SETTINGS	=	

[M2005/07/13 16:24:49 (DVC Pro)]

STATUS	=	Terminated
MACHINE	=	DVBCLIENT1057
SOURCE PATHNAME	=	C:\test050712\source\PAL_3.mxf
DEST PATHNAME	=	C:\test050712\mpeg2\PAL_3.mov
STARTDATETIME	=	13/07/2005 16:24:49
STOPDATETIME	=	13/07/2005 16:25:07
CODEC	=	DVC Pro
SETTINGS	=	<evsencodercfg> <vrate>25000000</vrate></evsencodercfg>
<vtype>DVCPro<td>VT</td><td>/pe> <ftype>MOV</ftype></td></vtype>	VT	/pe> <ftype>MOV</ftype>
<initialtc>00:00</initialtc>):	11.20

5.1.3 EVS TRIMMING

Trimming Mode:

See XFile User's Manual for boundaries definitions.

- File In/Out: The whole MXF file is converted
- In/Out: Only data between Protect IN & Protect OUT points are converted
- Clip In/Out: Only data between IN and OUT (also known as Mark In & Mark out) are converted

Guardbands:

This value represents the guardband added before and after the values selected in the above-described **Trimming Mode** option.

Build Destination File Name:

Select this option to rename the destination file following the structure %clipName_%LSMID.mxf. If there are some characters which are not allowed for windows file in the clipname they will be replaced by "_".

Keep Metadata:

Check this option to keep the metadata when transcoding MJPEG to IMX and vice versa with wrappers as EVS MXF formats. Metadata stored in the EVS MXF source file will be copied into the EVS MXF destination file. Only available with Trimming Mode equals to File In/Out.

5.1.4 **GRAPHIC FILES ENCODING**

Those settings are related to the generation of files from a bitmap (BMP, TIFF & TGA formats). To be used with any encoder: MJPEG, IMX-D10, etc.

System:

Select either Pal or NTSC.

Duration:

Select the duration (only valid for pictures, not for animated sequences).

Fill & Key:

Generation of 2 synchronous files based on Alpha Channel: one file with the **Fill** sequence and one file with the **Key** sequence.

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Enable Audio:

This option allows you to add audio to the sequence created with your graphic files.

The audio files must be 16 Bits audio file of 48 kHz (1 to 8 channels). The file format must be Broadcast Wave Uncompressed (BWAVE) (.wav).

To add an audio file to your sequence, you have to put it into the same folder as your graphic files.

5.1.5 POST PROCESSING

This option is used to generate a post-processing job after the conversion. For example, this XML file could control EVS XFile or XTAccess to restore automatically an EVS MXF clip to an XT server.

Enable Post Process:

Select this option to generate an XML file once the job is completed.

Create GUID FileName:

Select this option to generate a unique job XML filename base on a GUID. If you do not select this option, the Job XML filename will be the input "filename.xml".

Example: 3B9D425B9A2A61438D6B38265B096D9D.xml

Enable Post Process:

Allows you to prefix the job XML filename. This option is also available into the template keyword for the creation of template XML. See "C:\Program Files\EVS Broadcast Equipment\MediaXChange\PostProcess\Template Keywords.txt" file.

Example: "MXC_3B9D425B9A2A61438D6B38265B096D9D.xml" if you have put MXC_ as prefix and selected the "Create GUID FileName" option

PostProcess Template:

This is the default TPL file used to generate the XML file. MediaXchange usually scans the job directory to find a template to use. Otherwise, this default template is used. The template must be edited accordingly. In case of restore to XT via XFile, please refer to the document XFile XML Jobs v1.10.09.pdf for information about this XML structure. Examples of templates for automatic restore are available in C:\Program Files\EVS Broadcast Equipment\ PostProcess\ folder for info.

Examples:

• C:\Program Files\EVS Broadcast Equipment\ mediaxchange.tpl.

Restore to Xfile:

##GEN_ID####ID_1##
<?xml version="1.0"?>
<EVS_XFile_Job_List>
 < Job_List>
 <Job_Id>12384</Job_Id>
 <Job_Creation_Time>0</Job_Creation_Time>
 <Job_Type>2</Job_Type>
 <Job_Src_File>##OUTPUT_FILE##</Job_Src_File>
 <Job_Dest_Id>##ID_1##</Job_Dest_Id>
 <Job_Dest_User_Nb>10</Job_Dest_User_Nb>
 <Job_Dest_ClipName>##INPUT_FILE_NAME##</Job_Dest_ClipName>
 </EVS_XFile_Job>
</EVS_XFile_Job_List>

• C:\Program Files\EVS Broadcast Equipment\MediaXchange_XTACCESS.tpl. Restore to XTAccess:

<?xml version="1.0"?> <EVS_XFile_Job_List> <EVS_XFile_Job> <Job_Id>12384</Job_Id> <Job_Creation_Time>0</Job_Creation_Time> <Job_Src_File>##OUTPUT_FILE##</Job_Src_File> <Job_Type>2</Job_Type> <Job_Dest_XT_IP_Address1>1.1.243.243</Job_Dest_XT_IP_Address1> <Job_Dest_XT_Port1>21</Job_Dest_XT_Port1> <Job_Dest_XT_IP_Address2>1.1.241.241</Job_Dest_XT_IP_Address2> <Job_Dest_XT_Port2>21</Job_Dest_XT_Port2> <Job_Dest_XT_FTP_Login>evs</Job_Dest_XT_FTP_Login> <Job_Dest_XT_FTP_Password>evs!</Job_Dest_XT_FTP_Password> <Job_Dest_Page>3</Job_Dest_Page> <Job_Dest_ClipName>MXC_Created</Job_Dest_ClipName> </EVS_XFile_Job> </EVS_XFile_Job_List>

Template Output Path:

Browse and select the location where the XML file for post-processing will be copied to.

In case of XFile control, you must select the UNC path of the XFile device \XFile_XML\Jobs_Incoming\.

In case of XTAccess control, you must select the UNC path of the XTAccess device \XTAccess_XML\Jobs_Incoming\.

5.1.6 MISCELLANEOUS

Use Smart Rendering for PLST:

Select this option to only transcode content that must be rendered in a PLST sequence. See the CleanEdit User's Manual for information about Smart Rendering.

Serial Number:

This is the serial number associated with the generation of an EVS MXF file. The value must be in the range between 1 and 16333 to be compliant with EVS Multicam.

The Serial Number on each EVS software which is on the same computer must be the same.

Transcode Live Feed:

Select this option to start the wrapping/encoding process while the EVS MXF source file is being recorded. This option does not work with Quick Time File wrapping. If you use it anyway with the wrapping of Quick Time file, MediaXchange will wait for the end of the writing of the Quick Time file before doing its wrapping job.

Encoded Audios:

Encoded Audios:	4 Channels 🗾 👻	
	All Channels	
	1 Channel	
	2 Channels	
Cancol	4 Channels	
Cancer		

Limit the number of audio in the output file depends of the wrapper format.

<u>Example:</u> If your original clip has 8 audio and you have specify Encoder Audio to 2 channels: the output transcoded file will have only 2 audio if the output wrapper format support 2 audios (like QT). But if the wrapper support only 0,4,8 audios like EVS MXF: The output file will have 4 audio but the last two audio will be empty.

Channel can mean stereo or mono audio channel depending on your Audio type setting into your codec setting.

	Audio		
]	Audio bitrate :	64 Kbps	•
]	Type :	stereo	•

Show CPU Activity

This option MAY NOT be selected.

5.2 CODEC SETTINGS

Codec settings refer to the "encoder" or "wrapper" modes settings.

5.2.1 UP/DOWN CONVERSION

MediaXchange can automatically change the resolution of your files when transcoding. If you select an SD or HD encoder with an HD or SD file: MediaXchange will automatically UP or DOWN convert the resolution of your original file.

🛈 Note

The aspect ratio of your original file will be automatically preserved.

UP/DOWN conversion available:

SD to HD

SD to HD 1080i

- MJPEG (EVS and Standard modes)
- DVCPRO HD
- Avid DNxHD® Codec

SD to HD 720p

- MJPEG (EVS and Standard modes).
- Avid DNxHD® Codec

HD -> SD

HD 1080i to SD format (Anamorphic format)

- DV family
- MJPEG
- MPEG1
- MPEG2
- Windows Media

HD 720P to SD

• DV family only

5.2.2 MODE: ENCODERS

The **Encoders** mode defines the encoder parameters. The decoding process is automatic provided the MediaXchange version supports the file format.

To use the encoder Mode: you need the "MXC – 00: All Option" XSecure code.

M-JPEG - EVS XT

/ideo bitrate :	20 Mbps		
Codec Type:	Standard M-JPEG [1-band]	•	
Aspect Ratio: - TimeCode	Auto C 4:3 C 16:9	Resolution: Unchanged	•
Initial TC :	✓ Keep Original TC		
-File Wrapper			
File Type :	EVS MXF		
─EVS Mxf Settin ID Louth :	gs	8MBytes Blocks	
Clip Name :			
Camera :			
Num Machine			
QuickTime Set	tings Seneration [for FinalCutPro]		
QuickTime Mo	ovie path:		

Video Bitrate:

Choose the value among 20, 25, 30, 35, 40, 45 & 50 Mbps for SD and 100 & 150 Mbps for HD. Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.

Codec Type:

- Standard M-JPEG (1-band): Standard MJPEG encoder, valid for SD and HD formats.
- EVS HD M-JPEG (4-band): EVS proprietary MJPEG format in HD only. Also called "4-band" M-JPEG.
- Half-resolution M-JPEG: Special setting developed for the project World Cup 2006. This option encodes SD frame by keeping 1 field over the two fields of a frame. *Please contact EVS staff in order to use this configuration properly.*

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

Resolution:

Select the resolution of the encoded file you want to create. The original file will be automatically encoded in this resolution. If you select 'Unchanged' the resolution will not change.

Available Resolution values:

- Unchanged
- SD
- HD1080i
- HD1080i@960
- HD1080i@1024
- HD1080i@1280
- HD1080i@1440

- HD1080i@1920
- HD720p
- HD720p@640
- HD720p@798
- HD720p@960
- HD720p@1024
- HD720p@1280

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

File Wrapper:

Select either:

- EVS MXF: the wrapper will be the EVS MXF proprietary format
- Quick Time: the wrapper will be Quick Time, compatible with Apple Final Cut Pro

EVS MXF Settings:

Those settings are metadata associated with the EVS MXF file to be used into XFile and XT Server. Default values are set if the parameters are left blank.

- ID Louth: Enter the ID Louth
- Clip Name: Enter the clip name string
- Num clip: Enter a clip ID
- Camera: Enter a camera value among A, B, C, D, E & F.
- Num Machine: Enter the device ID on the SDTI network
- 8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks, which are only compatible with Multicam 9. If you do not select this option, MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

Quick time Settings:

- XML File Generation: Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. With encoders (contrary to wrappers), no metadata (except TC) can be transferred.
- Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

DV FAMILY

Codecs Settings
Mode : Encoders 💌 Type : DV Family
Video Type : DVCPro 💌
Aspect Ratio:
File Wrapper File Type : QuickTime QuickTime Settings XML File Generation [for FinalCutPro] QuickTime Movie path:

Video Type

Choose among DV, DVCPRO and DVCPRO50.

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file.
- 4:3: to force to 4:3 aspect ratio.
- 16:9: to force to 16:9 aspect ratio.
TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

File Wrapper:

Select either:

- Raw: select this format for raw DV (extension.dv)
- Quick Time: select this format for Quick Time format (extension .mov)
- Quick Time Ref: select this format for Quick Time Reference format (allows edition in Transcode progress)
- AVI: select this format for Video for Windows AVI (extension .avi)
- XDCAM: select this format in order to generate DVCAM into XDCAM format (extension .mxf)
- P2: select this format in order to generate P2 file format structure.



Note

P2 have some rules about file name and ClipName:

You have to create a file with 4 numeric (except 0000) + 2 alphameric characters (example: 0001AA.MXF) and to copy clip on a P2card: you have to copy each file such as XML, MXF, BMP in the correct folder on the P2card.

Quick time Settings:

- XML File Generation: Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. With encoders (contrary to wrappers), no metadata (except TC) can be transferred.
- Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

DVCPRO HD

Codecs Settings
Mode: Encoders V Type: DVCPro HD
Video Type : DVCProHD 💌
Aspect Ratio:
File Wrapper File Type : QuickTime QuickTime Settings XML File Generation [for FinalCutPro] QuickTime Movie path:
OK Cancel

Video Type:

Only DVCPRO HD is available.

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file.
- 4:3: to force to 4:3 aspect ratio.
- 16:9: to force to 16:9 aspect ratio.

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

File Wrapper:

Only Quick Time Movie is available (developed for Final Cut Pro only).

- Quick Time: select this format for Quick Time format (extension .mov)
- Quick Time Ref: select this format for Quick Time Reference format (allows edition in Transcode progress)
- P2: select this format in order to generate P2 file format structure



Note

P2 have some rules about file name and ClipName:

You have to create a file with 4 numeric (except 0000) + 2 alphameric characters (example: 0001AA.MXF) and to copy clip on a P2card: you have to copy each file such as XML, MXF, BMP in the correct folder on the P2card.

Quick time Settings:

- XML File Generation: Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. With encoders (contrary to wrappers), no metadata (except TC) can be transferred.
- Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

IMX – D10

Codecs Settings			
Video bitrate :	30 Mbps	Audio Output: 16 bits	
Aspect Ratio: TimeCode Initial TC :	Auto C 4:3 C 16:9 Keep Original TC 00.00.00	┌── User Quant. Table [Avid]	
File Wrapper Output File Type: EVS Mxf Settings ID Louth : Clip Name : Num Clip :	Mx1 IMX Op-1a [D-10]	MB Blocks	
QuickTime Setting WIL File Ger QuickTime Mov	IS		
	OK	Cancel	

Video Bitrate:

Select the video bitrate among 30, 40 & 50 Mbps.

Audio Output: Only valid for the MXF OP-1a file format.

- 24 bits: XDCAM mode 4 audios/24 bits.
- 16 bits: XDCAM mode 8 audios/16 bits.

User Quant. Table[Avid]

 Possibility to use specific User Quantification table to create IMX file compatible with the Avid MediaComposer

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

File Wrapper:

Select either:

- EVS MXF: the wrapper will be the EVS MXF proprietary format
- MXF IMX OP-1a [D-10]: the wrapper will be IMX MXF OP-1a, compatible with XDCAM & Avid
- Quick Time: the wrapper will be Quick Time, compatible with Apple Final Cut Pro
- Quick Time Ref: select this format for Quick Time Reference format (allows edition in Transcode progress)

EVS MXF Settings:

Those settings are metadata associated with the EVS MXF file to be used into XFile and XT Server. Default values are set if the parameters are left blank.

- ID Louth: Enter the ID Louth.
- Clip Name: Enter the clip name string.
- Num clip: Enter a clip ID.
- Camera: Enter a camera value among A, B, C, D, E & F.
- 8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option, MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

- XML File Generation: Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. With encoders (contrary to wrappers), no metadata (except TC) can be transferred.
- Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

MPEG-2

Codecs Settings
Mode: Encoders 💌 Type: Mpeg2
Aspect Ratio:
TimeCode
Initial TC : 00:00:00:00
-Video
Video bitrate : 6 Mbps Audio bitrate : 192 Kbps
Gop structure : Long GOP I type : stereo
File Wrapper File Format: C Program Stream [.mpg]
Transport Stream [.m2t] Multiple Streams [.ymt: m2tr m2t]
System Bitrate (bits/s)
OK

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

Video

- Video Bitrate: Choose among 3, 4, 5, 6, 7, 8, 9, 10, 12, 15 Mbps for 4:2:0 MPEG-2. Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.
- GOP Structure:
 - o I-Frame: GOP of length 1, only frame are encoded
 - o I-P GOP: GOP of length 2 of type IP
 - o Long GOP: GOP of length 12 of type IBBPBBPBBPBP

Audio

- Audio Bitrate: Choose among 64, 96, 112, 128, 160, 192, 224, 296, 320, 384 Kbps.
- Type: Choose between mono or stereo

File Wrapper:

Select either:

- Program Stream: The wrapper will be a Program stream (PS) (.mpg) format.
- Transport Stream: The wrapper will be a Transport stream (TS) (.m2t) format.
- Multiple Streams: The wrapper will be a Multiple Streams (ES) (.xml .m2v .m2a) format.
- System Bitrate: Select this setting to specify the system bitrate in bits/s If it is not selected, the encoder will automatically add stuffing accordingly.

MPEG-1

Codecs Settings
Mode: Encoders 💌 Type: Mpeg1
Aspect Ratio: Auto 4:3 16:9 TimeCode
Initial TC : 00:00:00
Audio
Video bitrate : 1.5 Mbps Audio bitrate : 64 Kbps
Gop structure : Long GOP 🗾 Type : stereo 💌
File Wrapper File Format: Program Stream [.mpg] Transport Stream [.m2t] Multiple Streams [.xml; .m2v; .m2a] System Bitrate (bits/s)
OK Cancel

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

• Video Bitrate: Choose among 500, 800 Kbps, 1.0, 1.5, 2.0 & 3.0 Mbps.

Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.

• GOP Structure: Fixed Long GOP of length 12 (type IBBPBBPBBPBP)

Audio

- Audio Bitrate: Choose among 64, 96, 112, 128, 160, 192, 224, 296, 320, 384 Kbps.
- Type: Choose between mono or stereo

File Wrapper:

Select either:

- Program Stream : The wrapper will be a Program stream (PS) (.mpg) format.
- Transport Stream : The wrapper will be a Transport stream (TS) (.m2t) format.
- Multiple Streams: The wrapper will be a Multiple Streams (ES) (.xml .m2v .m2a) format.
 - This file format has been developed to be integrated into CleanEdit Suite to support more than 4 audio tracks.
 - File format structure is not PS or TS, but rather an XML description file pointing to audio and video files, one file for each A/V essence. Example of XML file below :

```
<?xml version="1.0" ?>
<EVSMultiStream>
  <TCSystem>3</TCSystem>
  <TCIn>180000</TCIn>
  <TCOut>180806</TCOut>
  <nAudioStreams>4</nAudioStreams>
  <nAudioChannels>8</nAudioChannels>
  <StreamType>ES</StreamType>
  <VideoStream AspectRatio="4:3" Codec="MPEG1">
          <StreamFile>TEST IMX PAL 8AUDIO.m2v</StreamFile>
          <StreamRate>1500000</StreamRate>
  </VideoStream>
  <AudioStream Id="0" Stereo="1">
          <StreamFile>TEST IMX PAL 8AUDIO.00.m2a</StreamFile>
          <StreamRate>64000</StreamRate>
  </AudioStream>
  <AudioStream Id="1" Stereo="1">
         <StreamFile>TEST IMX PAL 8AUDIO.01.m2a</StreamFile>
  <StreamRate>64000</StreamRate>
  </AudioStream>
  <AudioStream Id="2" Stereo="1">
          <StreamFile>TEST IMX PAL 8AUDIO.02.m2a</StreamFile>
         <StreamRate>64000</StreamRate>
  </AudioStream>
  <AudioStream Id="3" Stereo="1">
         <StreamFile>TEST IMX PAL 8AUDIO.03.m2a</StreamFile>
```

```
<StreamRate>64000</StreamRate>
</AudioStream>
</EVSMultiStream>
```

• System Bitrate: Select this setting to specify the system bitrate in bits/s. If it is not selected, the encoder will automatically add stuffing accordingly.

XDCAM HD FAMILY

Codecs Settings
Mode : Encoders 💌 Type : XDCam HD Family
Mode: Encoders Vige: XOCam HD 4:2:0 @ 35 Mb/s 10801 & 720 V
OK Cancel

Target Type:

- XDCAM HD 4:2:0 @ 17.5 Mb/s [1080i only]
- XDCAM HD 4:2:0 @ 25 Mb/s [1080i only]
- XDCAM HD 4:2:0 @ 35 Mb/s [1080i & 720p]
- XDCAMHD 4:2:2 @ 50 Mb/s [1080i & 720p]

WINDOWS MEDIA

Codecs Settings
Mode : Encoders 💌 Type : Windows Media
Mode: Encoders Type: Windows Media
OK Cancel

Video Bitrate:

Choose among 128, 256, 384 & 512 Kbps.

Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.

Audio bitrate:

Choose among 16, 32, 64 & 128 Kbps.

Those values values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.

Video Type:

- WMV7: Windows Media version 7
- WMV8: Windows Media version 8
- WMV9: Windows Media version 9
- WMP4: Windows Media MPEG-4

Half resolution:

Select this option for Half resolution QCIF instead of full resolution CIF.

Video Resolution:

Enter the requested horizontal & vertical resolution.

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

The next parameters (Title, Author and Copyright) refer to contextual information embedded into Windows Media file format.

AVID DNxHD[®] ENCODER

decs Settings	
1ode : Encoders	Type : Avid DNxHD(R) Encoder
Video bitrate :	120/145 Mbps
Codec Type:	
Aspect Ratio:	● Auto ← 4:3 ← 16:9
-TimeCode	
Initial TC :	
File Wrapper	
File Type :	EVS MXF 💌
	gs 8MBvies Blocks
Clip Name :	
Num Clin :	
Camera :	
Num Machine :	
QuickTime Sett	tings
	ieneration [tor FinalCutt-ro]
Guidernine me	
	OKCancel

Video Bitrate:

- 100 Mbps : Special mode used by EVS. This is compatible with Avid DNxHD Low Level (120/145 Mbps) when used with Avid Transfer Manager server to export into Avid framework.
- 120/145 Mbps: Avid DNxHD Low Level: 120 Mbps (1080i50) or 145 Mbps (1080i59.94 & 720p59.94)
- 185/220 Mbps: Avid DNxHD High Level: 185 Mbps (1080i50) or 220 Mbps (1080i59.94 & 720p59.94)

Codec Type:

Only one type: Avid DNxHD® Codec 8-bit

Aspect Ratio:

- Automatic: the aspect ratio will be automatically selected following the information available in the source file
- 4:3: to force to 4:3 aspect ratio
- 16:9: to force to 16:9 aspect ratio

TimeCode:

- Keep Original TC: Select this option to keep the original TC included in the source file.
- Initial TC: Enter the value of the first TC included in the file to be converted.

File Wrapper:

Select either:

- EVS MXF: The wrapper will be the EVS MXF proprietary format.
- Quick Time: The wrapper will be Quick Time. Note that this is not compatible with Avid and Apple Final Cut Pro.

EVS MXF Settings:

Those parameters are metadata associated with the EVS MXF file to be used into XFile and XT server. Default values are set if the parameters are left blank.

- ID Louth: Enter the ID Louth.
- Clip Name: Enter the clip name string.
- Num clip: Enter a clip ID.
- Camera: Enter a camera value among A, B, C, D, E & F.
- Num Machine: Enter the device ID on the SDTI network
- 8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

Quick time Settings:

• XML File Generation: Not valid for this codec !

5.2.3 GRAPHIC FILES ENCODER

A graphic file or a sequence of graphic files can be encoded to any encoder available in MediaXchange. You can set up your graphic file encoder in the General Settings, Graphic Files Encoding group box.

Graphic Files Encoding			
System :	PAL 🔻	Fill and Key	
Duration :	00:01:00:00	🔽 Enable Audio	

System:

Select the video format:

- PAL (50 fields/sec)
- NTSC (59.94 fields/sec)
- 50 P (50 frames/sec)
- 59.94 P (59.94 frames/sec)

The file resolution is automatically detected and must be compliant with the video format.

- PAL: 720 x 576
- NTSC: 720 x 480 to 496
- HD 720p: 1280 x 720
- HD 1080i: 1920 x 1080

Duration:

Select the duration (only valid for source still picture, not source animated sequences).

Fill & Key:

Generation of 2 synchronous files based on Alpha Channel: one file with the **Fill** sequence and one file with the **Key** sequence.

Enable Audio:

This option allows you to add audio to the sequence created with your graphic files.

The audio files must be 16 Bits audio file of 48 kHz (1 to 8 channels). The file format must be Broadcast Wave Uncompressed (BWAVE) (.wav).

To add an audio file to your sequence, you have to put it into the same folder as your graphic files.

Procedure:

In this version, only TIFF (.tif), BMP (.bmp) and TGA (.tga) graphic files can be decoded.

Two types of encoding processes have been implemented:

- Still picture encoding: Select the file through Windows Explorer. Then select an encoder and start the encoder (A sequence duration must be set up).
- **Picture sequence encoding:** All pictures must be located in the same directory and must have names as follows: picture001.tga, picture002.tga, etc.

Select the first picture: e.g. picture000.tga. Then, select an encoder and start the encoder.

You can add audio to the encoding processes if you have selected 'Enable Audio' in the General Settings window and if you have stored the audio file in the same directory as your original file.



Tip

• If you have not selected the Enable Audio option:

The number of files in the directory or the specified duration will determine the sequence duration.

• If you have selected Enable Audio:

The number of files in the directory or the duration of the audio files will determine the sequence duration.

- If the audio file lasts less than your graphic files, your last graphic files will be encoded with a mute audio and the clip duration will be the one of all your graphic files.
- If the audio file lasts more than the graphic files, the encoded sequences will have the duration of the audio files. The last image of your graphic files will be kept until the audio ends.

5.2.4 MODE: WRAPPERS

The Wrappers mode defines the parameters of the re-wrapping.

To use the encoder Mode: you need the "MXCBP – 10: Base Package" XSecure code.

MJPEG EVS TO MJPEG QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with Apple Final Cut Pro and Avid Media Composer NLEs.

The video format must be MJPEG.

Codecs Settings				<
Mode : Wrappers 💌 Type	MJPEG EVS to MJP	EG QuickTime	•	
Mode : Wrappers Vipe	: MJPEG EVS to MJP FinalCutPro] 'Users/evs/Movies/	EG QuickTime		
	ОК	Cancel		

Stereo Audio Tracks:

Check this option to generate stereo audio tracks instead of mono audio tracks.

Map Clip Name:

Check this option to map the metadata clip name in EVS MXF to the Final Cut Pro name in the XML file, otherwise the file name of the source file will be used.

XML File Generation:

Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. This associated XML file is mandatory to exchange metadata with Final Cut Pro, like File in/out, TC in/out and 4:3/16:9 (anamorphic), etc.

• **Quick time Movie Path:** Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

MJPEG QUICK TIME TO MJPEG EVS

This mode is used to replace the Quick Time wrapper to EVS MXF compatible with Apple Final Cut Pro and Avid Media Composer NLEs.

The video format must be MJPEG.

Codecs Settings			X
Codecs Settings Mode : Wrappers ID Louth : Clip Name : Num Clip : Camera :	Type : MJPEG QuickTime to MJP	EG EVS	
	T 8 MBytes Blocks		
	ОК	Cancel	

- ID Louth: Enter the ID Louth
- Clip Name: Enter the clip name string
- Num clip: Enter a clip ID
- Camera: Enter a camera value among A, B, C, D, E & F.
- 8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

IMX EVS TO IMX MXF OP1A

This mode is used to replace the EVS MXF wrapper to MXF OP-1a compatible with Avid Media Composer NLE and XDCAM.

The video format must be IMX.

Codecs Settings
Mode : Wrappers 💌 Type : IMX EVS to IMX MXF OP1A
Audio Output: 16 bits
OK Cancel

Audio Output:

- 24 bits: XDCAM mode 4 audios/24 bits.
- 16 bits: XDCAM mode 8 audios/16 bits

IMX MXF OP1A TO IMX EVS

This mode is used to replace the MXCF OP-1a wrapper to EVS MXF compatible with Avid Media Composer NLE and XDCAM.

The video format must be IMX.

Codecs Settings			X
Mode: Wrappers ID Louth: Clip Name: Num Clip: Camera:	Type : MX MXF OP1A to IMX EVS		
	OK	Cancel	

ID Louth: Enter the ID Louth

Clip Name: Enter the clip name string

Num clip: Enter a clip ID

Camera: Enter a camera value among A, B, C, D, E & F.

8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

IMX EVS TO IMX QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with Apple Final Cut $\ensuremath{\mathsf{NLE}}.$

The video format must be IMX.

Codecs Settings		
Mode : Wrappers 💌 Type : IMX EVS to IMX	QuickTime	•
🔽 Stereo Audio Tracks		
🔽 Map Clip Name		
☑ ×ML File Generation [for FinalCutPro]		
QuickTime Movie path: ///Users/evs/Movies/	4	
Force IMX-50 QuickTime		
ОК	Cancel	

Stereo Audio Tracks:

Check this option to generate stereo audio tracks instead of mono audio tracks.

Map Clip Name:

Check this option to map the metadata clip name in EVS MXF to the Final Cut Pro name in the XML file, otherwise the file name of the source file will be used.

XML File Generation:

Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. This associated XML file is mandatory to exchange metadata with Final Cut Pro, like File in/out, TC in/out and 4:3/16:9 (anamorphic), etc.

• Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

Force IMX-50 Quick Time

Apple Final Cut Pro (FCP) provides RT effect only for IMX 50 (Note: also for IMX 30 in FCP v.5.1.2). By selecting this parameter, the wrapping in Quick Time will add stuffing to reach IMX 50 from a source file in IMX 30 or IMX 40. Note that the size of the file will be increased accordingly.

IMX QUICK TIME TO IMX EVS

This mode is used to replace the Quick Time wrapper compatible with Apple Final Cut Pro NLE to EVS MXF.

The video format must be IMX.

Codecs Settings			X
Mode: Wrappers 💌	Type : IMX QuickTime to IM	KEVS 🔽	
ID Louth : Clip Name : Num Clip : Camera :	ReWrapped		
	ОК	Cancel	

ID Louth: Enter the ID Louth

Clip Name: Enter the clip name string

Num clip: Enter a clip ID

Camera: Enter a camera value among A, B, C, D, E & F.

8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

AVID DNXHD® EVS TO QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with DNxHD HD codecs in Avid Media Composer NLE.

The video format must be AVID DNXHD® HD codec in XT server.



Stereo Audio Tracks:

Check this option to generate stereo audio tracks instead of mono audio tracks.

Map Clip Name:

Check this option to map the metadata clip name in EVS MXF to the output file name.

AVID DNXHD® QUICK TIME TO EVS

This mode is used to replace the Quick Time wrapper to EVS MXF compatible with DNxHD HD codecs in Avid Media Composer NLE.

The video format must be AVID DNXHD® HD codec in XT server.

Codecs Settings	
Mode : Wrappers 💌 Type : Avid DNxHD(R) QuickTime to EVS	
ID Louth : ReWrapped Num Clip : Camera : S MBytes Blocks	
OK	

ID Louth: Enter the ID Louth

Clip Name: Enter the clip name string

Num clip: Enter a clip ID

Camera: Enter a camera value among A, B, C, D, E & F.

8MB Blocks: Select this setting you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

EVS TO EVS 2MB BLOCKS

This mode is used to rewrap any EVS MXF file to EVS MXF 2MB blocks compatible with Multicam 8 and earlier versions.

Codecs Settings			
Mode: Wrappers	▼ Type : EVS to EVS 2MB Blo	ocks	
		Coursel	
		Cancel	

APPLE PRORES EVS TO QUICKTIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with Apple Final Cut $\ensuremath{\mathsf{NLE}}.$

The video format must be ProRes.



Stereo Audio Tracks:

Check this option to generate stereo audio tracks instead of mono audio tracks.

Map Clip Name:

Check this option to map the metadata clip name in EVS MXF to the Final Cut Pro name in the XML file, otherwise the file name of the source file will be used.

XML File Generation:

Check this option to create an XML file along with the Quick Time file. This is dedicated to the XML import in Final Cut Pro. This associated XML file is mandatory to exchange metadata with Final Cut Pro, like File in/out, TC in/out and 4:3/16:9 (anamorphic), etc.

• Quick time Movie Path: Specify the UNC of the destination path for the Quick Time file. The XML import does not use relative links.

APPLE PRORES QUICKTIME TO EVS

This mode is used to replace the Quick Time wrapper to EVS MXF

The video format must be ProRes.

Codecs Settings		X
Mode: Wrappers	Type : Apple ProRes QuickTime to EVS	
ID Louth : Clip Name : Num Clip : Camera :	Type Image: Second se	
	OK Cancel	

ID Louth: Enter the ID Louth

Clip Name: Enter the clip name string

Num clip: Enter a clip ID

Camera: Enter a camera value among A, B, C, D, E & F.

8MB Blocks: Select this setting if you want to create EVS MXF files in 8MB blocks which are only compatible with Multicam 9. If you do not select this option MediaXchange will create standard 2MB block files compatible with Multicam 8. We recommend to keep the standard format 2MB block.

6. GUI Overview



The GUI of the application MediaXchange is divided in 5 areas: Application Modes, Process Monitoring, History Log, Destination Drive Status and Alarms.

6.1 APPLICATION MODES

Single Batch Sca	n			
Input:				
Source pathname	e:			
D:\test\in\HD108	0i60_DNxHD_4audio_2006_10_05.mxf			
Information :				
File type :	EVS DNxHD			
TC in :	18:01:46:29			
TC out	18:02:01:09			
Duration :	00:00:14:08			
PTS:	64907.01			
System :	NTSC			
Output :				
Mode : Encode	ers 💌 Type: M-JPEG-EVSXT 💌			
	Settings			
File Path [Dri	ive / UNC]			
D:\test\out\out2\				
AT IP. 1.1.230.				
XT User: evs	XT Password: evs!			

This area contains the different processing modes defined in the MediaXchange application.

Each mode works as a separate application. Only one application can run at a time.

Each mode is explained in the Section 'Application Modes', on page 72.

6.2 PROCESS MONITORING

Last codec used : QuickTim	ne to EVS XT	✓ Preview
Last transcoded datetime :	13/07/2005 16:25:33	
OO:00:06:2 3	-00:00:08:12	

From this area, the users can monitor the conversion process.

Number of files transcoded:

This information displays the number of files that have been converted since the application has been started.

Last codec used:

This field specifies the type of codec used during the last conversion.

Last transcoded datetime:

This field specifies the date and time of the last conversion.

Status:

This progress bar displays how far the current conversion has been completed: The bar displays the estimated duration for the full conversion (left) and the remaining time (right).

Video Monitoring:

Select the **Preview** checkbox to display the result of the decoding process with 4 audio VU meters. This preview is only available for **Encoders** modes, involving decoding of the source file. It does not display any picture in **Wrappers** modes.

Start button:

Press this button to start the conversion process.

Stop/Abort button:

Press this button to abort the conversion (manual and batch modes) or to stop the scan mode.

6.3 HISTORY LOG

Constant of		TOT P	Source
Completed 2	23/12/2005 15:53:39	23/12/2005 15:53:51	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Completed 2	23/12/2005 15:54:17	23/12/2005 15:54:22	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed 2	23/12/2005 15:54:35	23/12/2005 15:54:40	E:\Sources SD NTSC\EVS XFile 2005_03_16 - 02 - 121 A.mxf
Completed 2	23/12/2005 15:54:49	23/12/2005 15:54:52	E:\Sources SD NTSC\XFile264A.mxf
Completed 2	23/12/2005 15:54:54	23/12/2005 15:54:57	E:\Sources SD NTSC\XFile264A.mxf
Completed 2	23/12/2005 15:55:33	23/12/2005 15:55:46	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Completed C	05/01/2006 11:47:47	05/01/2006 11:47:52	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed C	05/01/2006 11:47:54	05/01/2006 11:47:54	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed C	05/01/2006 11:47:57	05/01/2006 11:47:57	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Encoding C	05/01/2006 11:48:20		E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf

This area displays the history of the as-run log of all the processes launched since the application has been started.

State: Status of the jobs done or being processed:

- *Completed*: the jobs is done and finished properly.
- *Failed*: some errors occurred during the job. Check the Alarm area for more information
- *Encoding*: a job is currently under going.

Start: Date and time when the job started

Stop: Date and time when the job ended

Source: Path and name of the source file

Output: Path and name of the destination file



Тір

Right-clicking on a job allows displaying two commands:

- Clear: to clear the job from the History windows
- Play: to launch a player in order to display the converted file. This option is only available with XT server, MPEG and DV codecs.

State Start Stop		cop Source	Output		
Terminated	14/07/2005 09	Clear Play	4/97/2005 09:44:18 —	C:\Test Files\MXF EV5\sport1.mxf	C:\Test Files\MPEG Files\sport1.m2t

6.4 ALARMS

⚠ 05-01-2006 11:47:54 WARNING EVS IMX to MJPEG EVS to MJPEG QuickTime not possible ⚠ 05-01-2006 11:47:57 WARNING EVS IMX to MJPEG EVS to MJPEG QuickTime not possible

This area displays the alarms generated by the application.

Typically 2 types of alarms could occur:

- Errors: This means the application has encountered a problem during the conversion or the source file analysis. For example, the file format is not recognized or the file extension is not supported. The history status will display a 'failed' status for this job.
- Warnings: This means the application is not allowed or not able to handle the process as it is set up.



Right-clicking the 'Alarms' area allows displaying the following options:

- Autoscroll
- Clear logbook: to clear the alarms logs.

6.5 DESTINATION DRIVE STATUS



This area shows the output drive or destination drive status with the remaining storage available.
7. Application Modes

7.1 SINGLE MODE

<u>T</u> ools <u>V</u> iew <u>H</u> elp					
Single Batch Scar	Single Batch Scan				
Input:	Input:				
Source pathname	•:				
D:\test\in\SDPAL	_IMXD10_MXFEVS_40Mbs_2007_03_06.mxf				
Information :					
File type :	EVS IMX				
TC in :	14:07:37:01				
TCout	14:07:51:12				
Duration :	00:00:14:11				
PTS	50857.04				
Sustem	DAI				
System.					
Made: Encode	vrs 💌 Tyrne : XDCam HD Family				
	Settings				
C File Path [Driv	ve/UNC]				
D:\test\out\out2\					
T GigE FTP	[ONLY for EVS MXF Format!]				
XT IP: 1.1.230.2	230 Location: 111?				
Licer evs	Becaused: BVS				
0361. 000	Password, 1993				

This mode is aimed at converting one file at once by defining the parameters manually.

7.1.1 DESCRIPTION OF THE INTERFACE

INPUT

Source pathname:

Select the source file to be converted by browsing the folders. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

Information:

The Information group box lists the attributes of the source file after analysis by the TimeCode Extractor application. When available, this application returns the following parameters:

- File type
- TC in
- TC out
- Duration
- PTS: if available
- System: video format (PAL or NTSC)

OUTPUT

File Path [Drive/UNC]:

Select the destination file to be converted by browsing the folders. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

XT GigE FTP [ONLY for EVS MXF Format!]:

Use to directly write on the XT[2] GigE FTP. This output mode is only available with the EVS MXF Format (MJPEG, IMX, DNxHD) $\,$

- XT IP IP address of the target XT server
- XT User FTP login of the target XT server
- XT Password FTP password of the target XT server
- **Location** ClipID of the first location to check when restoring.

2 modes are considered:

• 123X: X could be A, B, C, D, E or F. In that case

MediaXchange will check the availability of the clip, e.g. 123A clip.

- If not available, MediaXchange will show an error message on the main windows. You will need to try again with a different location.
- o If available, The transfer will be done

In any case, after each transfer, MediaXchange will increase by 1 the LSM ID with the same camera label, e.g. 124 A,125A,126A. Etc.

• <u>1237</u>: In this case, the "Question Mark" allows MediaXchange to check all the camera labels. First check the availability of 123A, then 123B, 123C, 123D, 123E, 123F, 124A, 124B, etc.

Mode:

Select between 'Wrappers' (only file format replacement) or 'Encoders' (decoding/encoding process).

Type for wrappers:

Select the type of wrapper to be used:

- <u>MJPEG EVS to MJPEG Quick Time</u>: to convert an MJPEG EVS MXF file to MOV QuickTime format
- <u>MJPEG QuickTime to MJPEG EVS</u>: to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- <u>IMX EVS to IMX MXF OP1A</u>: to convert an IMX EVS MXF file to MXF OP1A format
- <u>IMX MXF OP1A to IMX EVS</u>: to convert an IMX MXF OP1A file to IMX EVS format
- <u>IMX EVS to IMX Quick Time:</u> to convert an IMX EVS MXF file to Quick Time format
- <u>IMX Quick Time to IMX EVS</u>: to convert an IMX Quick Time file to IMX EVS format
- <u>AVID DNXHD® EVS to Quick Time</u>: to convert a AVID DNXHD® EVS MXF file to Quick Time format
- <u>AVID DNXHD® Quick Time to EVS</u>: to convert a AVID DNXHD® Quick Time file to EVS MXF format
- EVS to EVS 8MB Blocks: to convert file to EVS MXF 8MB Blocks format
- EVS to EVS 2MB Blocks: to convert file to EVS MXF 2MB Blocks format

- <u>Apple ProRes EVS to Quick Time:</u> to convert a ProRes EVS MXF file to Quick Time format
- <u>Apple ProRes Quick Time to EVS:</u> to convert a ProRes Quick Time file to ProRes EVS format

Type for encoders:

Select the type of codec to be used:

- <u>M-JPEG (EVS XT)</u>: to encode in EVS M-JPEG compatible with XT server family.
- <u>DV Family</u>: to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
- DVCPRO HD: to encode using DVCPRO HD format
- <u>IMX- D10</u>: to convert to IMX format
- <u>MPEG2</u>: to convert to MPEG-2 formats.
- <u>MPEG1</u>: to convert to MPEG-1 formats.
- XDCAM HD: to convert to XDCAM HD formats.
- <u>Windows Media</u>: to convert to Windows Media family formats (WM9, MPEG-4)
- <u>Avid DNxHD® Encoder:</u> To convert to Avid DNxHD® Encoder.

Settings:

This button allows accessing the selected codec settings.

7.1.2 How to Convert a File in Single Mode

To convert a file in Single Mode, proceed as follows:

- 1. In the Single Mode tab, select the source file to convert.
- 2. Check that the information related to the source file is correct
- 3. Select the output mode.
 - a. File Path: The file name will be identical to the source name with another extension.
 - b. XT GigE FTP: The clip name on the XT will be the file name
- 4. Select the mode.
- 5. Select the wrapper or the codec.
- 6. Double-check the codec settings.
- 7. Start the process by clicking the Start button in the monitoring window.

During the process, a 'Transcoding' status is displayed in the bottom right corner of the application window. The 'Encoding' status is also displayed in the History log window, and the progress bar is moving continuously or step by step.

8. At the end of the process, check that the status in the History log is 'completed' for this job.

A Post Process is started at the end of the job in case this option is selected in General Settings menu.

7.2 BATCH MODE

Т	Tools View Help				
S	ingle Batch Scan				
	Default Mode : Encoders Type : DV Family				
	C Folder Out C XT Ftp Out Settings	1			
	ftp://evs:evsl@1.1.230.230/				
	Input File Codec Ouput Path				
	D:\test\in\HD720p60_MJPEGEVS DV Family C:\ D:\test\in\SDPAL_IMXD10_MXF0P1 DV Family ftp://evs:evsl@1.1.230.230/				
	Add				

This mode is aimed at converting a list of files (jobs) at once by defining the parameters manually for each file (job) separately.

7.2.1 DESCRIPTION OF THE INTERFACE

DEFAULT GROUP BOX

Default parameters for the conversion.

Output Mode:

• Folder Out:

Select the destination file to be converted by browsing the folders.

• XT Ftp Out:

Target	t XT Ftp Selection			X
хт	1.1.230.230	User: evs	Password: evs!	Location: 111?
		ОК	Cancel	

XT Ftp IP

User

Password	FTP password of the target XT server
Location	ClipID of the first location to check when restoring.
	2 modes are considered:
	• <u>123X</u> : X could be A, B, C, D, E or F. In that case MediaXchange will check the availability of the clip, e.g. 123A clip.
	 If not available, MediaXchange will show an error message on the main windows. You will need to try again with a different location.
	\circ If available, The transfer will be done
	In any case, after each transfer, MediaXchange will increase by 1 the LSM ID with the same camera label, e.g. 124 A,125A,126A. Etc.
	• <u>1237</u> : In this case, the "Question Mark" allows MediaXchange to check all the camera labels. First check the availability of 123A, then 123B, 123C, 123D, 123E, 123F, 124A, 124B, etc.

IP address of the target XT server

FTP login of the target XT server

Mode:

Select between 'Wrappers' (only file format replacement) or 'Encoders' (decoding/encoding process).

Type for wrappers:

Select the type of wrapper to be used:

- <u>MJPEG EVS to MJPEG Quick Time</u>: to convert an MJPEG EVS MXF file to MOV QuickTime format
- <u>MJPEG QuickTime to MJPEG EVS</u>: to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- <u>IMX EVS to IMX MXF OP1A</u>: to convert an IMX EVS MXF file to MXF OP1A format
- IMX MXF OP1A to IMX EVS: to convert an IMX MXF OP1A file to IMX EVS format
- <u>IMX EVS to IMX Quick Time</u>: to convert an IMX EVS MXF file to Quick Time format
- <u>IMX Quick Time to IMX EVS:</u> to convert an IMX Quick Time file to IMX EVS format
- <u>AVID DNXHD® EVS to Quick Time</u>: to convert a AVID DNXHD® EVS MXF file to Quick Time format
- <u>AVID DNXHD® Quick Time to EVS</u>: to convert a AVID DNXHD® Quick Time file to EVS MXF format
- EVS to EVS 2MB Blocks: to convert file to EVS MXF 2MB Blocks format
- <u>Apple ProRes EVS to Quick Time:</u> to convert a ProRes EVS MXF file to Quick Time format
- <u>Apple ProRes Quick Time to EVS:</u> to convert a ProRes Quick Time file to ProRes EVS format

Type for encoders:

Select the type of codec to be used:

- <u>M-JPEG (EVS XT)</u>: to encode in EVS M-JPEG compatible with XT server family.
- <u>DV Family</u>: to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
- DVCPRO HD: to encode using DVCPRO HD format
- IMX- D10: to convert to IMX format
- <u>MPEG2</u>: to convert to MPEG-2 formats.
- <u>MPEG1</u>: to convert to MPEG-1 formats.
- <u>XDCAM HD:</u> to convert to XDCAM HD compliant XDCAM HD.
- *Windows Media*: to convert to Windows Media family formats (WM9, MPEG-4)
- Avid DNxHD® Encoder: To convert to Avid DNxHD® Encoder.

Settings:

This button allows accessing the selected codec settings.

INPUT AREA

This area is used to add source files in the batch list and to list the parameters selected for the conversion of each file.

Input File:

Path and name of the source file. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

Codec:

Choice of wrapper or encoder

Output Path

Path of the destination file or FTP Address of the destination Clip.

7.2.2 How to Convert a List of Files

To convert a list of files, proceed as follows:

- 1. To add a new source file to be converted:
 - a. Check the default parameters (Output, Mode and type). Modify them if necessary and double check the codec settings.
 - b. Right click in the Input area and select Add.
 - c. Choose your file to be converted by browsing the folders.
- 2. Repeat step 1 for each source file you want to add.

This means you can select different settings for each file to be converted. A separate job will be performed.

3. Start the process by pressing the Start button in the monitoring window.

During the process, a 'Transcoding' status is displayed in the bottom right corner of the application window. The 'Encoding' status is also displayed in the History log window, and the progress bar is moving continuously or step by step.

4. At the end of the batch process, check that the status in the History log is 'completed' for the list of jobs.

A Post Process is started at the end of each job in case this option is selected in General Settings menu.

7.3 SCAN MODE

Single Batch Scan			
Output :	ita		
Mode. Encoders • Type. DV F	amiy		
Folder Out C XT Ftp Out	Settings		
C:\			
	Apply Changes		
Folders Codec Output			
D:\test\in\ DV Family ftp://evs:evs!@1	.1.250.250/000111?.CLP		
D:\test\oli\ DV Family C:\ Add Delete Settings			

This mode is aimed at continuously scanning pre-defined directories and afterwards converting new coming files. Multi-scan allows defining scanning jobs with different parameters. This is useful if you need to automate a two-way process with NLEs like Avid or Apple Final Cut Pro.



Tip

The Scan mode cannot be used with Graphic Files.

The Scan job does not scan read-only files.

7.3.1 DESCRIPTION OF THE INTERFACE

OUTPUT GROUP BOX

Mode:

Select between 'Wrappers' (only file format replacement) or 'Encoders' (decoding/encoding process).

Type for wrappers:

Select the type of wrapper to be used:

- <u>MJPEG EVS to MJPEG Quick Time</u>: to convert an MJPEG EVS MXF file to MOV QuickTime format
- <u>MJPEG QuickTime to MJPEG EVS</u>: to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- <u>IMX EVS to IMX MXF OP1A</u>: to convert an IMX EVS MXF file to MXF OP1A format
- <u>IMX MXF OP1A to IMX EVS:</u> to convert an IMX MXF OP1A file to IMX EVS format
- <u>IMX EVS to IMX Quick Time</u>: to convert an IMX EVS MXF file to Quick Time format
- IMX Quick Time to IMX EVS: to convert an IMX Quick Time file to IMX EVS format
- <u>AVID DNXHD® EVS to Quick Time</u>: to convert a AVID DNXHD® EVS MXF file to Quick Time format
- <u>AVID DNXHD® Quick Time to EVS</u>: to convert a AVID DNXHD® Quick Time file to EVS MXF format
- EVS to EVS 2MB Blocks: to convert file to EVS MXF 2MB Blocks format
- <u>Apple ProRes EVS to Quick Time:</u> to convert a ProRes EVS MXF file to Quick Time format
- <u>Apple ProRes Quick Time to EVS:</u> to convert a ProRes Quick Time file to ProRes EVS format

Type for encoders:

Select the type of codec to be used:

- <u>M-JPEG (EVS XT)</u>: to encode in EVS M-JPEG compatible with XT server family.
- <u>DV Family:</u> to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)

- <u>DVCPRO HD:</u> to encode using DVCPRO HD format
- IMX- D10: to convert to IMX format
- <u>MPEG2</u>: to convert to MPEG-2 formats.
- <u>MPEG1</u>: to convert to MPEG-1 formats.
- <u>XDCAM HD:</u> to convert to XDCAM HD compliant XDCAM HD.
- <u>Windows Media:</u> to convert to Windows Media family formats (WM9, MPEG-4)
- <u>Avid DNxHD® Encoder:</u> To convert to Avid DNxHD® Encoder.

Settings:

This button allows accessing the selected codec settings.

Output Mode:

• Folder Out:

Select the destination file to be converted by browsing the folders.

• XT Ftp Out:

Farget	XT Ftp Selection			X
хт	1.1.230.230	User: evs	Password: evs!	Location: 111?
		ОК	Cancel	

XT Ftp IP	IP address of the target XT server	
User	FTP login of the target XT server	
Password	FTP password of the target XT server	
Location	ClipID of the first location to check when restoring.	
	2 modes are considered:	
	• <u>123X</u> : X could be A, B, C, D, E or F. In that case MediaXchange will check the availability of the clip, e.g. 123A clip.	
	 If not available, MediaXchange will show an error message on the main windows. You will need to try again with a different location. 	
	\circ If available, The transfer will be done	
	In any case, after each transfer, MediaXchange will increase by 1 the LSM ID with the same camera label, e.g. 124 A,125A,126A. Etc.	
	• <u>1237</u> : In this case, the "Question Mark" allows MediaXchange to check all the camera labels.	

First check the availability of 123A, then 123B, 123C, 123D, 123E, 123F, 124A, 124B, etc.

Cancel Auto Start:

In case Auto Start Mode is selected in the General Settings menu, the Scan mode will automatically start when MediaXchange is launched. If you want to stop the Scan mode before, click on this button before the end of the countdown.

Apply Changes:

Once a scan job has been defined, it is possible to change its settings. Select first the job, make the changes, and then click on this button to update the scan job.

SCANNING AREA

This area is used to add source directories to be scanned. This directory could be either a local directory, a remote directory (mapped drive) or a UNC directory.

Each directory to be scanned is listed. The directory must be checked in order to enter in the conversion criteria.

By right-clicking the scan job, you have the possibility to :

- Add a new scan job
- Delete this scan job
- Change the settings of this scan job

Settings :

When you select **Settings**, the following window is displayed.

Scan Folder Settings	
Scan Filter: ▼ Enable PostProcessing	
Post Processing Output Path: 🔽 Default Output Path	-
Cancel	

• Scan Filter: You can add some file extension in order to only scan those kinds of file formats. *.* means that you accept all file formats to be scanned.

• Enable Post Processing:

- o Check this option to launch a Post Processing after the completion of a job
- Post Processing Output path: if you select Default Output Path, MediaXchange will use the Post Processing Output Path defined in General Settings. Otherwise, the path defined below will be used instead.

- 1. Check the General Settings in the Tools menu:
- 2. Select the Use TXT File check box in General Settings (mandatory).
 - a. Choose the timing mode: file creation date or file modification date. It is recommended to check File Creation Date instead of File Modification Date in General Settings window.
 - b. Verify the Auto Start Mode selection.
- 3. To add a new scan job:
 - a. Select the output (File or FTP).
 - b. Select the mode.
 - c. Select the wrapper or the encoder.
 - d. Double check the codec settings.
 - e. Add a new directory to scan by right-clicking the scanning area. Note that sub-directories are not scanned. They must be defined explicitly. Modify the settings of this scan job if needed (i.e. scan filtering and post processing).
- 4. Repeat step 2 for each scan job you want to add. This means different settings can be selected for each directory to scan (multi-scan mode).
- 5. Once a scan job has been defined, it is possible to change its settings. First select the scan job in the scanning area, make the changes, and then click on **Apply Changes** button to update the scan job.
- 6. Set up the Timing parameters (start Date/Time and Delay).
- 7. Select the directories to be scanned by checking them in the scanning area.
- 8. Start the scanning process by pressing the **Start** button in the monitoring window. The directories will be scanned successively approximately every 5 seconds.

For each new file to be converted, a 'Transcoding' status is displayed in the bottom right corner of the application window. The 'Encoding' status is also displayed in the History log window, and the progress bar is moving continuously or step by step.

A Post Process is started at the end of each job in case this option is selected in the General Settings menu.

To stop the scanning process or change the parameters, push the **Stop** button in the monitoring area.

7.3.3 CONVERSION CRITERIA

A file will not be converted in the following cases:

- The file does not belong to the directories checked in the scanning area.
- The date and time defined in the file creation date or file modification date are earlier than the start date/time (+ delay) defined in the Scan Mode parameters.
- The date and time defined in the file creation date or file modification date are earlier than the local Windows time of the workstation.
- For each job in the TXT file, the date and time are not earlier than the start date/time (+ delay) defined in the Timing parameters AND the codec is identical.

A file will **always be converted** in the following cases:

• The file belongs to the directories checked in the scanning area

AND

• No TXT file is associated.

AND

• The date and time defined in the file creation date or file modification date are more recent than the start date/time (+ delay) defined in the Timing parameters.

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