The XOR MediaGateway is a workflow management application for ingest, conversion, audiomux and mirroring.

MediaGateway 3.3

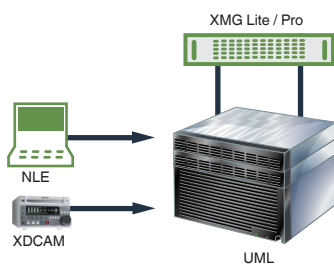## For network content exchange and managed transfers

Value added features

- Supports multiple-workflow policy definition
- New XOR Transfer Utility (XTU) for easy operation control
- Improved overwrite logic for better management of duplicate files in target device
- Supports MediaServer 1200
- Supports adding new clips into source inventory for improved management of new file ingest
- Supports maximum bandwidth setting for CIFS or FTP protocol
- Mirroring license option
- Supports load balance

The XOR MediaGateway (XMG) brings a new level of simplification in workflow design and managed transfers between the different generations of XOR servers and many third-party production, MAM, and archive systems.

XOR MediaLibraries provide multiple high-speed IP connectivity based on CIFS or FTP protocols to enable direct access and file exchange with third-party client applications, such as networkable cameras, e-VTR, NLE, and archive managers. On the other hand, XMG allows multiple policies to be established to fulfill basic workflow requirements such as moving media from Avid, Apple FCP, or Canopus NLE to XOR MediaLibraries. XMG enables the deployment of tapeless workflows without the added expense of a MAM or Archive Manager. XMG provides an application framework with add-on modules such as Ingest, Conversion, Transfer, Mirroring, and Audiomux.
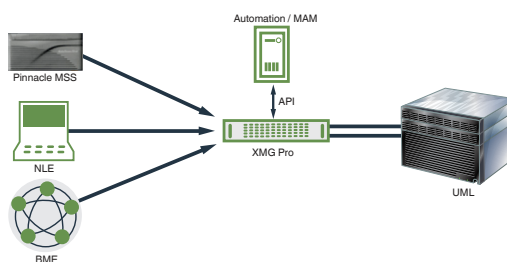
XMG Pro Ingest centralizes the data transfers between third-party NLE, networked cameras, File Delivery Systems, archive, and XOR MediaLibrary clusters.

XMG Pro Ingest Diagram

In this mode, no transcoding is required, and the video and audio essence are fully preserved. Ingest is typically faster than real-time to a XOR server. New clip IDs are checked into the video server, ready for automation playback while the files are ingested.

XMG Pro Conversion Diagram

In this version, XMG Pro Conversion can automatically detect the source essence and convert it according to the policy preset. This is very useful to automate migration from legacy servers such as Avid/Pinnacle MediaStream, Omneon Spectrum, Harris Nexio, or Thomson GVG K2. XMG Pro Conversion includes all the features of XMG Pro Ingest.

Recommended hardware specifications

- Enterprise 1RU rack mount server with hot-swap drives and power supplies
- Minimum Dual Core CPU 3.0GHz 1333MHz FSB or higher
- Microsoft Windows XP Professional with SP3 or Windows 2008 with SP1
- Minimum 4GB RAM with FB DIMM 1333 MHz (or higher)
- 250GB (or more) drive for OS service disk
- Extra 250GB (or more) drive for intermediate content storage
- 2 x 1 Gigabit Ethernet NIC (card must support jumbo frame)

XMG Lite Ingest runs on Broadcast Operation Server Station (BOSS) or MediaServer

XMG file support

The XOR MediaGateway currently supports various format wrappers and A/V material essence to allow network content exchange with MediaLibrary.

For high traffic applications, multiple XOR MediaGateway Pro servers can be clustered to increase parallel processing for faster tapeless workflow. In such cases, more stream processing is possible as well as higher redundancy with automatic failover.

XMG Lite version is installed on the BOSS system or MediaServer and single stream processing. It supports DV, MXF OP1A and MPEG-2 PS validation.

XMG Pro Ingest

Source	Wrapper	Video Essence	Audio Essence	XMG Lite Ingest
AVID MC and NC	MXF OP1A	DV 25/50, IMX 30/40/50	SMPTE 331M	Yes
Apple FCP	Raw	DV 25/50	MPEG1 L2	Yes
Incite	Raw	DV 25/50	Various	Yes
Canopus Edius	MXF OP1A	DV 25, XDCAM HD25	Various	Yes
XDCAM	MXF OP1A	DV 25/50, IMX 30/40/50	SMPTE 331M	Yes
XDCAM HD	MXF OP1A	XDCAM HD35	PCM-16	Yes
XDCAM HD	MXF OP1A	XDCAM HD422	PCM-24	Yes
XOR BMC	SAF Version 0.1 and 1.0	MPEG2	MPEG1 L2	Yes

XMG Pro Conversion

Source	Compatible format to convert (qualified)	Output Format
Pinnacle Mediastream	MPEG2 LGOP SD PAL or NTSC with full VBI preservation [Tolerant, OP42, VITC] and SOM	MPEG2 PS
GVG Profile	GFX SD or HD [MPEG2 PS] Video clip must be exported from profile first as GXF	MXF wrapped MPEG2 PS
XOR BMC	SAF version 0.1 nd 1.0	MXF wrapped MPEG2 PS
3rd party raw files	MPEG2 PS or DV	MXF wrapped MPEG2 PS or DV
Apple FCP	Self-contained Quicktime [DV25, DV50, DV100]	MXF wrapped DV25, DV50, DV100