

SeaChange® MediaGateway 3.2

For Network Content Exchange & Managed Transfers

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

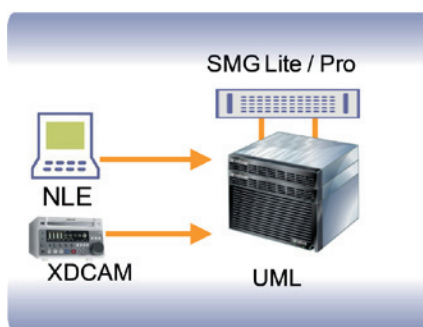
SeaChange MediaLibraries provide multiple high-speed IP connectivity based on CIFS or FTP protocols to enable direct access and file exchange with third-party client applications, such as networkable cameras, e-VTR, NLE, and archive managers. On the other hand, SMG allows multiple policies to be established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

SMG Pro Ingest centralizes the data transfers between third-party NLE, networked cameras, File Delivery Systems, archive, and SeaChange MediaLibrary clusters.

Value Added Features

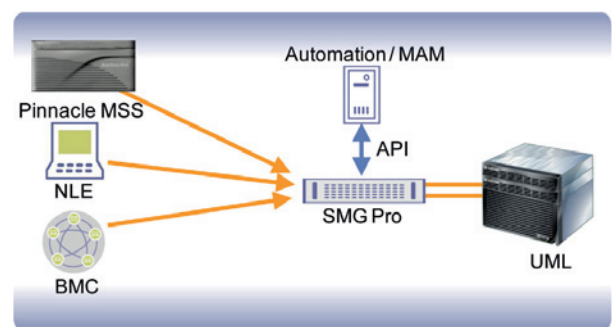
- Supports multiple-workflow policy definition
- New SeaChange Transfer Utility (STU) for easy operation control
- Improved overwrite logic for better management of duplicate files in target device
- Supports MediaSerer 1200
- Supports adding new clips into source inventory for improved management of new file ingest
- Supports maximum bandwidth setting for CIFS or FTP protocol
- Integrates with AssetFlow Workflow Management System
- Mirroring license option

SMG 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 SeaChange server. New clip IDs are checked into the video server, ready for automation playback while the files are ingested.

SMG Pro Conversion Diagram



In this version, SMG Pro Conversion can automatically detect the source essence and transcode 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. SMG Pro Conversion includes all the features of SMG Pro Ingest.

SMG FILE SUPPORT

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

SMG Pro Ingest				
Source	Wrapper	Video Essence	Audio Essence	SMG Lite Ingest
Avid MC & NC	MXF OP1A	DV25/50, IMX30/40/50	SMPTE 331M	Yes
Apple FCP	Raw	DV25/50	MPEG1 L2	Yes
Incite	Raw	DV25/50	Various	Yes
Canopus Edius	MXF OP1A	DV25, XDCAM HD35	Various	Yes
XDCAM	MXF OP1A	DV25/50, IMX30/40/50	SMPTE 331M	Yes
XDCAM HD	MXF OP1A	XDCAM HD35	PCM-16	Yes
XDCAM HD	MXF OP1A	XDCAM HD422	PCM-24	Yes
SeaChange BMC	SAF Version 0.1 and 1.0	MPEG2	MPEG1 L2	Yes
EVS	MXF OP1A	IMX50	SMPTE 331M	Yes

SMG 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	GXF SD or HD [MPEG2 PS] Video Clip must be exported from Profile first as GXF	MXF wrapped MPEG2 PS
SeaChange BMC	SAF Version 0.1 and 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

For high traffic applications, multiple SeaChange 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.

SMG Light version is installed on the BOSS system and only runs Media Monitor mode and single stream processing. It supports DV, MXF OP1A and MPEG-2 PS validation.

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Recommended Hardware Specifications

- CPU Dual Core Intel 3.0 GHz or higher
- Memory 2GB, Registered, ECC
- Dual 250GB SATA Drive
- Removable Media CD-ROM
- 2x Gigabit Ethernet NIC or more

Software Specifications

Operating System

- Microsoft® Windows Server 2008 or 2003
- XML 3.0 or above
- DirectX 9.0 or above
- SeaChange MediaGateway Pro 3.0 or higher
- Quicktime SDK

SMG Lite Ingest runs on Broadcast Operation Server Station (BOSS)

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