



# SeaChange® MediaGateway™

## For Network Content Exchange

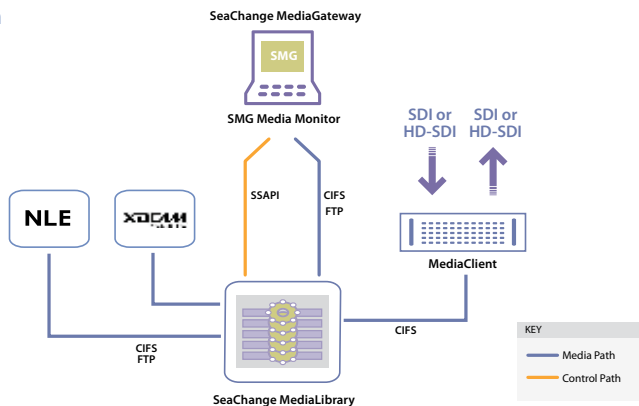
The SeaChange® MediaGateway™ (SMG) facilitates media asset exchanges between best of breed acquisition and production systems with SeaChange® Broadcast MediaLibrary™ storage systems. In essence, SMG simplifies complex network workflow between SeaChange MediaLibrary, SeaChange® MediaClients™ and 3rd party tools.

SeaChange MediaLibrary provides true standard and open IP connectivity with CIFS/FTP support for direct access to the central storage by 3rd party client applications, such as networkable cameras, e-VTR, NLE, and archive managers. Using CIFS/FTP, client applications can now directly "network ingest" media files to the MediaLibrary at faster than realtime speed while preserving the original video quality of the media. The SeaChange MediaGateway operates in 2 modes : Media Monitor and Media Mover.

### Features

- Supports complex IT workflows
- Manages media file transfers to/from SeaChange BMC or MediaLibrary
- Enables tapeless workflows with SeaChange BMC and MediaLibrary
- MXF and QuickTime ready

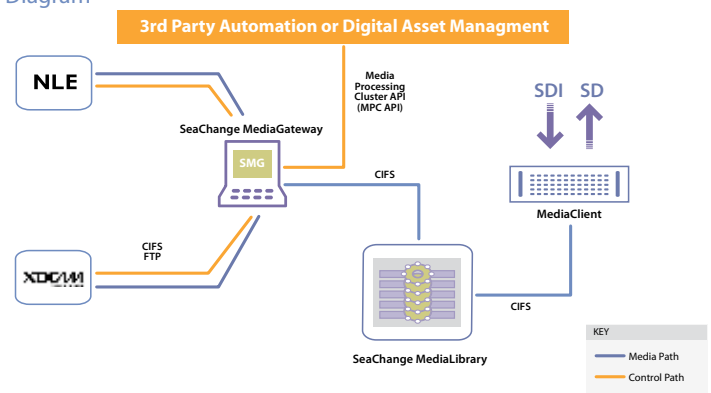
Media Monitor Mode Diagram



In Media Monitor mode, the SMG monitors the SeaChange MediaLibrary and receives an instant notification change from the MediaLibrary as soon as a new file is being network ingested.

SMG validates the A/V material essence and registers the metadata of the new video clip in the BMLE inventory database. This mode is completely transparent and automated while allowing the MediaLibrary to be accessible by 3rd party applications like an open scalable NAS.

Media Mover Mode Diagram



In Media Mover mode, the SMG controls the media transfers using standard FTP or CIFS protocols to move to/from 3rd party acquisition or production tools to SeaChange MediaLibrary or BMC (MPEG-2 only for BMC). SeaChange MediaGateway is controlled either manually using an intuitive user interface or automatically by API XML requests.

## SMG FILE SUPPORT

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

Compatibility Table To/From MediaLibrary and SeaChange MediaClient

File Exchange	Wrapper	Video Essence	Audio Essence
AVID	MXF OP1A	IMX 30, 40 or 50	SMPTE 331M, MPEG1 Layer 2, 16-bit wav AES, 24-bit wav AES
Final Cut Pro	Quicktime (self contained)	DV25 or 50	
Pinnacle Liquid	MXF OP1A	IMX 50	SMPTE 331M
SeaChange BMC	SAF	MPEG2 PS	MPEG1 layer 2 or PCM
EVS	MXF	IMX 30, 40, 50 or DV25/50	SMPTE331 for IMX
Incite	MXF or Raw	MPEG2, DV25/50	Various
Sony XDCam	MXF OP1A	IMX 30, 40, 50	SMPTE331M
Sony XDCam-HD	MXF OP1A	MPEG2	PCM-16
JVC HDV 720p	TS	MPEG2	MPEG1 Layer 2
Sony HDV 1080i	TS	MPEG2	MPEG1 Layer 2

Compatibility Table To/From BMC

Source File	Wrapper	Video Essence	Audio Essence
AVID	MXF OP1A	IMX 30, 40 or 50	SMPTE 331M, MPEG1 Layer 2, 16-bit wav AES, 24-bit wav AES
Pinnacle Liquid	MXF OP1A	IMX 50	SMPTE 331M
SeaChange MCL	MXF or Raw	MPEG2 PS	MPEG1 layer 2 or PCM

Future support: Dayang, Canopus

The SeaChange MediaGateway Pro version supports up to 4 parallel stream processing (network ingest or transfer) and scales up by clustering multiple SMG platforms together into a processing pool. In such cases, not only more streams processing is possible but better load balancing 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, Quicktime (self contained), MXF OP1A and MPEG-2 PS validation.

Sales Order Number	Description
FGA-0352-00	SMG platform (up to 4 streams processing)
Standard Software Bundle SFW-3049-00	SSMG Pro license (4-stream pack)
Premium Features SFW-3050-00	SMG Add-on MXF <> SAF (4-stream pack)
SFW-3051-00	SMG Add-on MXF <> PS (4-stream pack)
SFW-3052-00	SMG Add-on PS <> SAF (4-stream pack)
SFW-3053-00	SMG Add-on for DIVA
SFW-3054-00	SMG Light license (loaded on 1RU BOSS)

## HARDWARE SPECIFICATIONS for SMG Pro

CPU Dual Intel 3.2 GHZ, Xeon w/ 1MB cache  
Memory 2GB, Registered, ECC  
Service Disk One 250GB SATA Drive Removable  
Media CD-ROM  
Cache storage, two SCSI 146GB

## SOFTWARE SPECIFICATIONS

Operating System Microsoft® Windows® XP Professional XML 3.0 or above  
DirectX 9.0 or above  
SeaChange MediaGateway Pro 1.2 or higher

## CHASSIS SPECIFICATIONS

Size: 1RU rackmount, 1.7"H x 16.8"W x 22.6"D (43mm x 246mm x 574mm)  
Weight: Approximately 35 lbs (15.9kg)  
Environmental Conditions  
Operating Temperature: +10 C to +35 C (50 to 95 F)  
Non-operating Temperature: -40 C to +70 C (-40 to 150 F)  
Relative Non-operating Humidity: 95% at +30 C, non condensing  
Power Requirements: 100-240 VAC, 50/60Hz  
Option for Single Power Supply

SMG Light runs on BOSS PC (see BOSS PC specifications for more details)