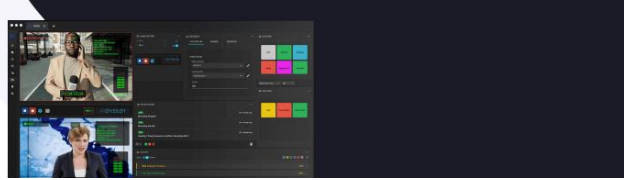


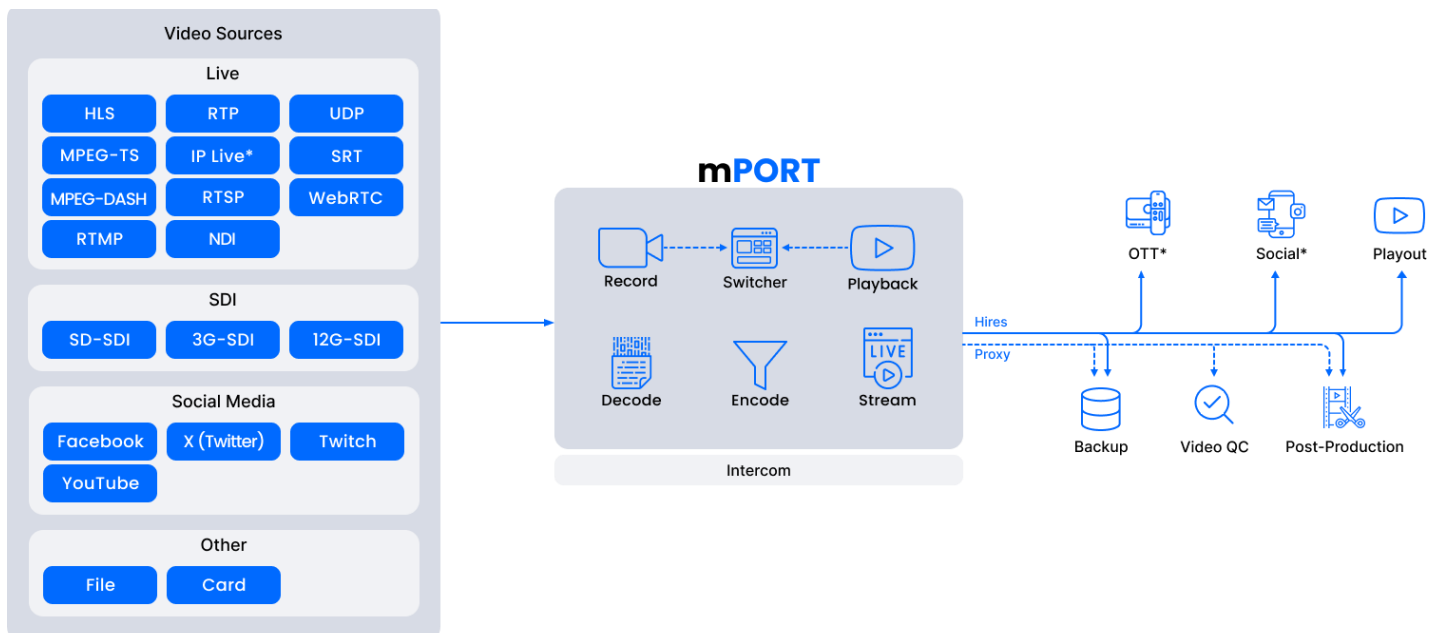
## mPORT Software



Elevate your content production with mPORT, a robust and versatile multi-format system optimized for live ingest and playout within an integrated media production ecosystem. This professional solution integrates seamlessly into your existing workflows, offering comprehensive support for 4K/UHD, FHD, IP Live, and NDI workflows to elevate the quality and impact of your content.

Experience a state-of-the-art solution that enhances your media production processes, delivering unmatched flexibility, reliability, and efficiency. mPORT streamlines your operations, ushering in a new era of multimedia excellence and transforming your content creation workflows.

It supports multiple simultaneous media operations such as recording, playout, live video streams, file previews, live switching, and intercom communication among users, enabling a dynamic and collaborative production environment.



\* Optional

## Highlights

- **mSWITCH:** Remote live switching and composing
- **Baseband ingest - multiple simultaneous recordings:** multicamera recording, loop recording, crash recording, schedule recording, batch recording;
- Video server for multiple destinations of any storage, NAS, or SAN
- **Burnt-in options:** text, timecode, overlays (images and videos), and LUT
- **File playback - multiple simultaneous operations:** composition play, loop playback, instant play, schedule play, remote preview
- Encodes and/or decodes contents according to the destination format
- **Playlist management:** add clips, remove clips, reorder clips, export playlist, loop play
- Full featured local and remote user interface (includes quick control through touch screen)
- **mTALK:** Audio communication between users
- **Overlays:** clip-name and port-name
- Proxy generation
- Ideal for multiple feeds of video contribution
- Multi-configuration metadata management
- Flexible file naming engine
- Enable edit while ingest
- **Operation modes:** manual, scheduled, and automatic

## Specially Designed For

- Educational/Government
- Live Entertainment/Worship
- Corporate
- Sports
- Film/TV Studio/Scripted
- Digitalization
- Post-Production
- Broadcast/Digital News
- OTT & Streaming
- System Integrators/Rentals

## Features

Features
<b>Timecode support</b>
LTC (SMPTE 12M)
VITC (SMPTE RP188)
Time of Day
<b>Serial Control Protocols</b>
VTR (BVW) - Serial
VTR (VDCP) - Serial
<b>Multiple LIVE and simultaneous records</b>
Crash Record operations
Gang Capture operations
Independent workflow selection in Gang Captures
Unique workflow for gang captures while using clipnaming with counters
Conceal/Hide option for unused Capture Instances
Synchronize (different) Gang Captures
Flexible Gang Capture channel configurations / Choose which channels are present in the gang
Frame Chase editing
Unlimited capture duration support
Loop record support
Extend a playlist's maximum duration in a Loop Record workflow
Perform Loop record captures through automatic jobs
Growing files support
Growing file support for Grass valley Edius Workgroup v.9 and X
Growing XDCAM MXF OP1a file support on Avid Media Composer <b>*required Nablet AMA Plugin</b>
Automatic Stream Control - Detect input streams and start recording automatically
Continuous recording support
Continuous live stream capture
Recording timer for captures
Abort or force stop a capture or a stream
Frame rate conversion option on Capture workflows
High Dynamic Range (HDR) support - HLG (arib std-b67) / PQ (SMPTE 2084)
High Frame Rate (HFR) up to 120fps (ST2081-10, ST2081-11, ST2082-10, ST2082-11 and ST2082-30)
Generate MP4 files as Fragmented MP4 via DCP Packager
Add XML sidecars with WAV file as output while recording
Perform "Run after completion" scripts
Remove source assets after Job completion for all plain sources
Live Probing option
Stream with Closed Captions
Edit a Workflow directly from the Player
Input selection made directly from a dropdown list on the player
Option to start timecode recording from 00:00:00:00
Export in "MOG playlist" format (.XML Sidecar containing information about the chunks of the recorded media)
Batch record support
Deck control through Serial Ports
Pre-roll and post-roll options
LiveU NewsML batch capture
LiveU NewsML metadata import
LiveU NewsML - support XML from devices (Live U, Android and iPhone)
LiveU include subfolder browse
Contribution Web Video Player - Aspect marker, Safe Area Marker, and Center marker
Player Overlay - Center Dot and Cross
Support for Active Format Description (AFD)
Medialoopster Integration in Capture operations
Medialoopster Integration in Batch Capture operations
<b>Video Router Protocols</b>
Quartz
Probel SW-P-08
Jupiter ASCII
Blackmagic Videohub Ethernet Protocol

## Features

### Operation modes

- Automatic
- Manual
- Scheduled

### Clipnaming

- Clipnaming based on Metadata Profiles
- Field numeric representation of the day of the week
- Drag and Drop support
- Restore auto numbering on capture abort in naming templates
- "CreateDate" field can refer to a desired Time Zone
- Add the label "\_p" to proxy clips' names

### Multi-Configuration metadata management and enrichment

- Directly manage your assets metadata
- Generate metadata directly through capture operations
- Prevent the overwrite of metadata fields
- Protect metadata fields
- Delete custom metadata
- Edit group clips metadata
- Edit a file's source metadata based on a configured metadata profile
- "Description" field editable in metadata widget
- Set "Description" field as a column in the Asset Explorer list view
- Forward metadata to Gang Captures
- Favorite metadata fields
- Create custom metadata fields
- Add a "Rating" metadata field
- Update the source metadata directly through the metadata widget
- Add asset tags insertion in preset list
- Re-use lists of possible values
- Update Metadata in Media Central/Interplay using AMT-3 library
- Rename media in Interplay after a capture has begun
- Take field (counter)
- Support for "Reel" metadata field using Apple ProRes Wrapper
- Read metadata from pre-configured cloud storages (Amazon S3 / Google Cloud Storage / Tencent / IBM Cloud Object Storage)
- Preserve specific Arri fields
- Support IMF (Netflix Compliant) output metadata

### Find immediately and learn everything about any asset

- Show or hide proxies on Asset Browser
- Sort, order and search for files on Asset Browser
- Asset Explorer - Resizable thumbnails
- Asset Explorer - Support asset availability
- Search for all assets on Asset Explorer
- Extract thumbnails and posters while indexing on Asset Explorer
- Asset Explorer - Playable thumbnails
- Preview media with interactive Pop-up Players
- Asset Explorer - View the exact duration of files with more than 24 hours
- Asset Selection -View the total duration of the selected assets
- Configure the asset's preview duration
- Asset Selection - Add Numeric Input

### Asset management Check-in

- AVID AAF
- AVID interplay
- XML support
- XSLT transformation - XML sidecar
- Edit share flow
- Vizzi OTT check in
- Support for update on Vizzi OTT check-in

### Audio support

- PCM input and output support
- Dolby E-AC-3, Dolby TrueHD, and DTS input support
- Dolby-E Input and output support
- DTS Coherent Acoustics (DCA)
- Integration with Dante Audio Capture \*Negotiated separately

## Features

- PCM 96KHz support
- Independent audio encoder for hires and proxy
- Individually map your audio by output target
- Record audio only streams
- Playout audio only streams
- Audio downmixing & upmixing
- External audio files support (.WAV)
- MPEG-4 Audio (M4A) audio format as output
- Ability to mute proxy on the output

### Close captions

- CEA/EIA - 608
- Add sidecar - SubRip (SRT)
- Add sidecar - Fragmented WebVTT
- Add sidecar - ISMT/CMFT subtitles
- Support DVB-S captions in streams
- Support captioning for OTT (CMFT, SubRip, and WebVTT)
- Stream with Closed Captions

### Locators

- Create locators with shortcut keys
- Edit the locators' description
- Insertion and viewing
- Create and freely customize action fields
- Insert comments in a marker's widget tab
- Locators source in markers widget
- Select multiple subcategories for a single locator
- Order asset locators by timecode
- Establish Absolute or Relative timecode for source locators
- Enter Timecode without the need of entering colons
- Eject locators using the player eject button
- Support for locators with AMT captures
- Send locators directly to Gang Captures
- Send locators instantly to Playout
- Preserve Metadata Enhancement locators created by an Automatic Job

### Scheduler (Calendar View)

- Schedule a Record operation
- Schedule a Playout operation
- Schedule Gang Captures
- Schedule Playouts
- Schedule Maintenance Tasks (Reboot, Export Logs, Export Full Backup)
- Edit individual events
- Export activity events
- Allow editing of settings for each occurrence/repetition
- Set the number of an event's repetitions
- Check for collisions between events and repetitions
- Placeholder when editing an occurrence name
- Enable field event name as AVID Interplay clipname by default
- Use pre-set naming templates
- Send the assets to independent targets and multiple outputs
- Establish a maximum capture duration
- Configurable number of iterations when using maximum capture duration
- Use AVID Interplay clip name as event name on crash record events
- Pre-roll and post-roll options for scheduled events
- Define events to be triggered on any day, on working days only or only on weekends
- Set the Calendar Notion option to automatically adjust to daylight time
- Edit the Start Time field after the first recording
- Visualize scheduled events in a List View
- Perform captures from a MOG S1000
- Perform captures from an Airspeed 5000
- Perform captures from a Softron Movie Recorder

### Scheduler (Record Grid) - Unifies in a single rollout view all ingest activities \*Optional

- Schedule a Record operation
- Schedule Gang Captures

## Features

- Create new scheduled events directly from the timeline
- Perform crash record captures directly from the grid view
- Metadata Insertion availability
- Use of pre-set naming templates
- Edit scheduler individual events
- Edit an event after it has started
- Edit settings for each occurrence/repetition
- Trigger Capture events (Any day, On Working Days or only on Weekends)
- Adjust events by dragging them on the timeline
- Check collision between events with repetitions
- On channel settings assign an Input a workflow a router source and a duration and start recording on the fly
- Change router source cross point from record scheduler during a live event
- Change router source on rollout
- Copy an event's name after it is complete
- Perform captures from a MOG S1000
- Selectable MOG S1000 capture profiles
- Perform captures from an Airspeed 5000
- Perform captures from a Softron Movie Recorder
- Pre-roll and post-roll options for scheduled events
- Configure the number of events repetitions
- Define events to be triggered on any day, working days or weekends only
- Set the Calendar Notion option to automatically adjust to daylight time
- Expandable and collapsible views
- Jump to date to seek events by day or in a 7 days period
- Choose between AVID or MOG color schemes
- Confirm a "Stop" action

### **Scheduler (Playout Grid View) - Unifies in a single rollout view all Playout activities \*Optional**

- Grid View for Playout
- Crash Playout directly from the Grid View
- Loop a playlist
- Schedule Clip Lists to be Played out
- Adjust to a desired Time Zone
- Ability to set a pre-determined number of repetitions
- Trigger Playout events (Any day, On Working Days or only on Weekends)

### **Signal error detection and related recovery actions**

- Detect possible signal errors
- Detect possible drop frames
- Support for timecode breaks
- Configurable capture resume methodology
- Automatic streaming (headless) - Restart capture after stopping/crashing or rebooting

### **Checksum media**

- MD5 hash file
- MDL - Media hash list

### **Live to Live**

- Delete artifacts on abort
- Vizzi OTT Live Output
- Multiple resolutions check-in
- Support Time of Day in input streams (RTMP, MPEG-TS, RTP, SRT, RTSP, HLS, LLDASH, MSS, MPEG-DASH, CMAF)
- Variable Frame Rate Input
- Support IGMPv3 multicast
- Add possibility to change the transport stream segments duration

### **MPEG-TS Support**

- Capture of MPEG-Transport Streams
- Support of MPEG-TS program IDs

### **NDI**

- Native NDI output
- NDI audio and video synchronized mechanism
- NDI discovery mechanism
- Capture multiple NDI sources
- Time of day and embedded timecode options in NDI input

## Features

### HLS

- Configurable HLS segment duration
- Configurable HLS Playlist segment count

### RTMP

- RTMP recording with absolute timecode
- RTMP Push Mode in input and output
- RTMP Pull Mode in input and output
- Native RTMP listener capability
- Multiple audio channels in RTMP Output
- HEVC, VP9 and AV1 codec in enhanced RTMP/FLV

### SRT

- Input modes: Caller, Listener, and Rendezvous
- SRT listener mode as stream output
- Output modes: Caller and Rendezvous
- Stream ID support
- Configurable latency settings
- Configurable overhead bandwidth
- Configurable passphrase
- Monitoring input metrics

### WebRTC

- h.264 Support
- VP8 Support
- VP9 Support

### Burn-In Video options

- Graphic burn-in while recording
- Text (Position, Text color, Box Color, Font Size)
- Timecode (Position, Text color, Box Color, Font Size)
- Overlays support (images and videos positioning)
- LUT (Look-Up Table) - Save particular color grades as a template

### File playback

- Simultaneous playback
- Composition play
- Instant play
- Gang Play
- Replay a group or an individual asset
- Loop playback
- Group Loop Playback
- Gridline (3x5) Overlay
- Remote preview
- Support for 10bit
- Synchronous SDI playback of multiple files
- Closed captions
- Cue mode
- Monitor - support HDR
- Option to add locators
- Play assets from cloud storages
- Preview Editing Decision Lists
- Preview Clip Lists
- Playback - 8K UHD
- Embedded VITC output support
- Step multiple frames forward and backwards on SDI/gang playback
- Timecode and metadata overlaying on SDI out
- Support for growing assets in player
- Support for spanned assets in player
- Timecode only monitoring
- Use of a contour shuttle to control an asset during playback
- Playback duration showing the remaining time of the clip
- Remove clips
- Reorder clips
- Export playlist
- Create new playlists with the current assets selection
- High Dynamic Range (HDR) support - HLG (arib std-b67) / PQ (SMPTE 2084)

## Features

High Frame Rate (HFR) up to 120fps (ST2081-10, ST2081-11, ST2082-10, ST2082-11 and ST2082-30)

Preview - Possibility to change the playback speed by multiplier factors

Read Metadata Timecode Package (Auto / Material Package / Source Package)

### Playout

#### Playout Preparation

Build playlists in a Playlist Builder widget

Create multiple Playlists

Allow configuring playout clip action while preparing the playlist

Support visual separators for rPlayout playlists

Drag and Drop clips to the player for media preparation

Support insertion of Timecodes without separators ":" in the playlist builder

Use both types of TC (Relative and Absolute) for Mark-ins and mark-out at playlist builder

Trim clips to be included in the Playlist

Editable timecodes of the in and out points

Re-arrange clips order

Duplicate Edit Decision Lists

Export Edit Decision Lists

#### Playout Control

Edit playlist on the fly and while playing

Playlist countdown and clip countdown

File and clip list progress bars

Playout Capture streams through SDI and native window

Print to tape

Queue clip on the playlist

Queue on first frame and last frame

Queue on first frame the first clip of the playlist

Bypass action for playout clips

Pause Playlist

Playout to stream

Thumbnail preview of the current clip on the playlist and its remaining time until Playout of the next clip

On Air - current loaded playlist name

Loop a playlist

Loop one or more assets in the playlist

Drag and Drop Clip List entries in Playout Control

Multi-channel playout capability

Schedule Playout

Choose between Playout Services available - rPlayerSDI or CasparCG

Mini control bar for use with Playout Control

Keyboard shortcuts for playout control and associated WEB player

Autoplay option

As Run Log's containing Date, Time, Clip name, Time Code In, and Time Code Out

Prepare the Playout clip actions while preparing the playlist

#### Input/output social media \*Optional

Google Chrome Social-m Plugin

Social-m - Add support for live stream capture

Metadata in Chrome Social-m Plugin

Capture to Facebook Live

Stream to Facebook Live

Stream to Twitch Live

Capture to YouTube Live

File based YouTube Upload

Capture X (Twitter) Live

Stream to X (Twitter) Live

Upload to Vimeo

Metadata social annotation and enhancement

#### mTALK

Communicate via audio between two or more users

QR code implementation

WebApp (requires Android smartphone)

Toggle Mode

## Features

### Analytics

- Integrate with Google Analytics and Tag Manager
- Enable or disable Analytics
- Keep track of menu events
- Receive video metrics
- Keep track of Job Control widget's events
- Keep track of Asset Explorer widget's events

### Improved security

- Support for Windows UAC
- Support for HTTP/HTTPS Ingress
- HTTPS (Hypertext Transfer Protocol Secure) for REST API
- Secure login
- User Impersonation
- Token based authentication
- Two-factor authentication
- Remote services, system restart, and settings recovery features
- Opt to "Keep me signed in"
- Send a User Verification through email
- Configurable password visibility in logs

### Orchestration

- Orchestration View for output workflows
- Services Menu that eases Group and Cluster Configuration while displaying running services per node

### Hardware acceleration \*If Hardware is installed or available

- Intel QSV
- Sony XAVC
- Panasonic AVC-Ultra
- Nvidia Nvenc

### General Purpose IN/OUT

- GPI triggers supported
- GPO triggers supported

### Additional Highlights

- REST API - allows interaction with RESTful web services
- Change Aspect Ratio (4:3 / 16:9 / 1.9:1 / 2:1 or use same as source)
- Active Format Description (Option to Preserve, Discard or Override)
- Notify user upon connection lost with the Server
- Manage via web interface or REST APIs for integration with automation system
- Configurable quality and target latency of the preview stream
- Logging - Human readable information on Services logs
- Logging - Add user information on flow actions
- Logging - Structured Logging
- Receive SMTP notifications via e-mail
- Support an external Database
- Microsoft Edge / Firefox / Safari and Chrome Support

### Unified Interface User Experience

- Configurable web interface access port
- Embeddable Dashboards/Widgets
- Web-Based Interface with video preview
- Dashboards based experience where users can create their own personalized view
- Dashboards presets for ease-of-use deployment
- Create your own custom dashboard templates
- Import and Export Users' Dashboards
- Associate a single dashboard to multiple users
- LDAP user authentication
- User profile management
- Users permissions control
- Widget based modular interface
- Lock/Unlock widgets permission
- Choose between multiple interface themes (Midnight, Carbon, Dark or High contrast theme)
- Touch screen mode
- Monitoring - Advanced metrics
- Multi Language Support
- User tour



### Features

- Show/Hide player overlays
- Notifications of required actions needed to resume a workflow
- Monitor Grouped Servers' activity in a Group Activity Widget
- Remove the "quick edit" button from the Job Control Widget
- (Set Permissions to) Activate or Deactivate Settings of a Gang Capture widget

#### Multiviewer

- Define the quality and target latency of the preview stream
- Ability to control to up to 4 players in a single dashboard

#### Maintenance

##### Scheduler

- Reboot host or group
- Export database (backup) as a scheduled task
- Export logs as a scheduled task

##### Activity

- Export last activity
- Export all activity
- Export activity from a date range
- Clear all activity

##### Logs

- Export logs

##### Backup

- Export full backup - A full backup will create an archive of all the files and configurations
- Import full backup

##### Dashboards

- Export dashboards from one user or all users
- Import dashboards

##### Data

- Clean data usage
- Clean assets, flows and notifications
- Perform a Factory Data Reset
- Erase all data and reset the system
- Force clear cache

## Technical Specifications

### Supported File Inputs

#### Inputs

##### Plain Files or Structures

- ARRI ALEXA Cameras
- BlackMagic Cameras
- RED Digital Cinema
- Avid Files
- Avid Media Files (standalone or Nexis/ISIS)
- Avid Sequences (master clips and rendered sequences)
- CANON DSLR 5D, 7D, C300, C100
- Generic File Shares
- GoPro Cards
- IKEGAMI GFPK
- JVC (AVC HD models)
- NextoDI NSB-25
- Panasonic CX350 HEVC
- Panasonic AU-EVA1 and GH5 Cameras
- Multi Clip/Spanned XDCAM/XAVC/XDCAM-EX Structure
- DJI (Camera Drones)
- HLS Structures
- MPEG-TS Structures
- XAVC Structures

##### XDCAM EX

- Sony SxS (SBAC-UT100, SBAC-US10/20/30)
- Sony XQD (MRW E-80, MRW E-90)

##### XDCAM HD

- Sony XDCAM HD: Disc (PDW-U1, PDW-U2, PDW-U4)

**Inputs**

<b>OnPrem</b>	<b>Panasonic P2</b>
	AJ-PCD 2 / AJ-PCD 20/30/35 / AJ-MPD1
	AU-XP1E / AU-XP3EJ
	<b>Network</b>
	XDCAM Network
	P2 Network
	ARRI RAW Network
	Ikegami Network
	<b>Storage</b>
	Avid ISIS / Nexis
	Avid Unity™ MediaNetwork
	DDP – Dynamic Drive Pool
	Facilis TerraBlock
	Harmonic MediaGrid
	Editshare EFS
	NAS / SAS (SMB 2.0 and 3.0)
	Quantum StorNext
ScaleLogic NX2 & ZX NAS Storage	
EMC Isilon	
QNAP	
Studio Network Solutions EVO	
Oracle Storage	
Netapp	
<b>Cloud</b>	<b>Social Media</b>
	Facebook
	X (Twitter)
	Vimeo
	YouTube
	<b>Professional Cloud Storages</b>
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
	Tencent
	Lucidlink Cloud NAS
	Google Cloud Storage
	IBM Cloud Object Storage
	Generic S3 storages
	<b>Consumer Cloud Storages</b>
	Apple   Cloud Drive
	Dropbox
Google Drive	
Microsoft One Drive	

**Supported File Outputs**

**Outputs**

<b>OnPrem</b>	Avid ISIS / Nexis
	Avid Unity™ MediaNetwork
	DDP – Dynamic Drive Pool
	Facilis TerraBlock
	Harmonic MediaGrid
	Editshare EFS
	NAS / SAS (SMB 2.0 and 3.0)
	Quantum StorNext
	ScaleLogic NX2 & ZX NAS Storage
	EMC Isilon
	QNAP
	Studio Network Solutions EVO
	Oracle Storage
	Netapp
	FTP Servers (List on request)
Generic File Shares	

**Outputs**

<b>Cloud</b>	<b>Consumer Cloud Storages</b>
	Apple I Cloud Drive
	Dropbox
	Google Drive
	Microsoft One Drive
	<b>Multiple and Adaptive bitrates for the OTT *Optional</b>
	<b>Professional Cloud Storages</b>
	Adobe Creative Cloud
	Amazon S3 Glacier
	Microsoft Azure Storage
	Tencent
	Lucidlink Cloud NAS
	Google Cloud Storage
	IBM Cloud Object Storage
	Generic S3 storages
	<b>Social Media *Optional</b>
	Facebook
	X (Twitter)
Vimeo	
YouTube	

**Supported Live Inputs**

**Inputs**

<b>Live</b>	<b>SDI</b>
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	12G-SDI (SMPTE ST-2081/SMPTE ST-2082, SMPTE/2108-1)
	12G-SDI (Quad-Link 3G-SDI)
	Support for 8, 10 and 12 bits
	<b>Streams</b>
	Video Content Hyperlinks
	HLS
	MPEG-TS
	MPEG-DASH
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	NewTek NDI
	UDP
	Haivision SRT
	WebRTC
	Zixi
	<b>Audio</b>
	Dante audio *Negotiated separately
	<b>Social Media</b>
	Facebook
	Twitch
	X (Twitter)
	YouTube

**Supported Live Outputs**

**Outputs**

<b>Live</b>	<b>SDI</b>
	SD-SDI (SMPTE 259M)
	3G-SDI (SMPTE 292M, SMPTE296M, SMPTE372M, SMPTE425M)
	12G-SDI UHD-SDI (SMPTE ST-2081/SMPTE ST-2082)
	12G-SDI (Quad-Link 3G-SDI)
Support for 8, 10 and 12 bits	

### Outputs

<b>Live</b>	<b>Streams</b>
	HLS
	HTTPS Push
	Microsoft Smooth Streaming
	MPEG-DASH
	Low Latency Dash - LL-Dash
	NewTek NDI
	MPEG-TS
	RTMP (with support for HEVC / VP9 / AV1)
	RTP
	RTSP
	UDP
	Haivision SRT
	WebRTC
	<b>Vizzi</b>
	Live Output
	<b>Social Media *Optional</b>
	Facebook
	Twitch
	X (Twitter)
	YouTube
	Vimeo
<b>Multiple and Adaptive bitrates for the OTT *Optional</b>	

## Formats

### Input Formats

#### Input Video Formats

ARRI ARRIRAW
Digital Cinema Packages (DCP)
RED Digital Cinema
IMX 30/40/50 Mbps
MPEG2 LGOP 18/25/35 Mbps 4:2:0
MPEG2 LGOP 50/70 Mbps 4:2:2
MPEG2 LGOP 422 50 Mbps
MPEG2 LGOP 420 1440x1080 35 Mbps
MPEG2 LGOP 420 (FULL) 35 Mbps
DVCAM 25 Mbps
XAVC Intra 50 / 100 Mbps
XAVC Intra 300 / 300 VBR / 480 / 480 VBR Mbps
XAVC LGOP 25 / 35 / 50 Mbps
XAVC LGOP 60 / 100 / 140 / 150 / 200 Mbps
DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps
AVC-Intra 50/100 Mbps
AVC-Intra 200 Mbps
AVC-Intra 2K422
AVC-Intra 4K422
AVC Ultra (LGOP 6/12/25/50 Mbps)
DNxHD (SQ/HQ/HQX/LB)
DNxHR (SQ/HQ/HQX/LB)
H.264 2160p 35 - 68 Mbps High Profile
H.264 1440p 16 - 24 Mbps High Profile
H.264 1080p 8 - 12 Mbps High Profile
H.264 720p 5 - 7.5 Mbps High Profile
H.264 480p 2.5 - 4 Mbps High Profile
H.264 360p 1 - 1.5 Mbps High Profile
H.264 2160p 13 - 51 Mbps High Profile (Live)
H.264 1440p 6 - 18 Mbps High Profile (Live)
H.264 1080p 3 - 9 Mbps High Profile (Live)
H.264 720p 1.5 - 6 Mbps High Profile (Live)
H.264 480p 0.5 - 2.0 Mbps High Profile (Live)
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)

### Input Video Formats

H.264 L10 10 Mbps  
 H.264 MOG 1Mbps  
 H.265/HEVC 10 Mbps LGOP  
 H.265/HEVC 25 Mbps LGOP  
 H.265/HEVC 50 Mbps LGOP  
 H.265/HEVC 100 Mbps LGOP  
 H.265/HEVC 4K 25 Mbps LGOP  
 H.265/HEVC 4K 50 Mbps LGOP  
 H.265/HEVC 4:2:2 LGOP  
 H.265/HEVC 4K 4:2:2 LGOP  
 ProRes 422 (SQ/HQ/LT)  
 ProRes 4444  
 ProRes 4444XQ  
 JPEG 2000 (Full HD)  
 JPEG 2000 (4K)  
 Google® VP6 / VP7 / VP8 / VP9 (Full HD)  
 Google® VP9 (4K)  
 Uncompressed UYVY 422 / V210 / RGBA  
 AOMedia Video 1 (Full HD)  
 AOMedia Video 1 (4K)  
 IMF (JPEG 2000 @ Full HD)  
 IMF (JPEG 2000 @ 4K)

### Output Formats

#### Output Video Formats

IMX 30/40/50 Mbps  
 MPEG2 LGOP 18/25/35 Mbps 4:2:0  
 MPEG2 LGOP 50/70 Mbps 4:2:2  
 MPEG2 LGOP 422 50 Mbps  
 MPEG2 LGOP 420 1440x1080 35 Mbps  
 MPEG2 LGOP 420 (FULL) 35 Mbps  
 DVCAM 25 Mbps  
 XAVC Intra 50 / 100 Mbps  
 XAVC LGOP 25 / 35 / 50 Mbps  
 DVCPRO 25/50 Mbps / DVCPRO HD 100 Mbps  
 AVC-Intra 50/100 Mbps  
 AVC-Intra 200 Mbps  
 AVC Ultra (LGOP 6/12/25/50 Mbps)  
 DNxHD (SQ/HQ/HQX/LB)  
 DNxHR (SQ/HQ/HQX/LB)  
 H.264 2160p 35 - 68 Mbps High Profile  
 H.264 1440p 16 - 24 Mbps High Profile  
 H.264 1080i 35 Mbps High Profile  
 H.264 1080p 8 - 12 Mbps High Profile  
 H.264 720p CBR - 6.5 Mbps High Profile  
 H.264 720p 5 - 7.5 Mbps High Profile  
 H.264 480p 2.5 - 4 Mbps High Profile  
 H.264 360p 1 - 1.5 Mbps High Profile  
 H.264 2160p 13 - 51 Mbps High Profile (Live)  
 H.264 1440p 6 - 18 Mbps High Profile (Live)  
 H.264 1080p 3 - 9 Mbps High Profile (Live)  
 H.264 720p 1.5 - 6 Mbps High Profile (Live)  
 H.264 480p 0.5 - 2.0 Mbps High Profile (Live)  
 H.264 360p 0.4 - 1.0 Mbps High Profile (Live)  
 H.264 240p 0.3 - 0.7 Mbps High Profile (Live)  
 H.264 1080p CBR 15 Mbps MAIN Profile  
 H.264 480p CBR 2.3 Mbps MAIN Profile  
 H.264 360p CBR MAIN Profile  
 H.264 432p CBR MAIN Profile  
 H.264 576p CBR MAIN Profile  
 H.264 720p CBR MAIN Profile  
 H.264 1080p CBR MAIN Profile

### Output Video Formats

H.264 576p CBR - 3 Mbps MAIN Profile  
 H.264 720p CBR - 4 Mbps MAIN Profile  
 H.264 1080p CBR - 5Mbps MAIN Profile  
 H.264 15-30 Mbps MAIN Profile  
 H.264 L10 10 Mbps  
 H.264 WebRTC Baseline  
 H.265/HEVC LGOP 4:2:2  
 H.265/HEVC 10 Mbps LGOP  
 H.265/HEVC 25 Mbps LGOP  
 H.265/HEVC 50 Mbps LGOP  
 H.265/HEVC 100 Mbps LGOP  
 H.265/HEVC 4K 25 Mbps LGOP  
 H.265/HEVC 4K 50 Mbps LGOP  
 NDI HX H.264 - High Profile  
 NDI HX H.265 - High Profile  
 MPEG-5 EVC Main Profile  
 MPEG VVC/H266 Main Profile  
 ProRes 422 (SQ/HQ/LT)  
 ProRes 4444  
 ProRes 4444XQ  
 JPEG 2000 (Full HD)  
 JPEG 2000 (4K)  
 Google® VP6 / VP7 / VP8  
 Google® VP9 (Full HD)  
 Google® VP9 (4K)  
 Uncompressed UYVY 422 / V210 / RGBA  
 AOMedia Video 1 (Full HD)  
 AOMedia Video 1 (4K)  
 IMF (JPEG 2000 @ Full HD)  
 IMF (JPEG 2000 @ 4K)

### Proxy Formats

### Output Proxy Formats

XAVC LGOP 25 / 35 Mbps  
 AVC Ultra (LGOP 6/12/25 Mbps)  
 H.264 @ 500 Kbps Flash  
 H.264 @ 486p 1 / 1.5 Mbps Flash  
 H.264 360p @ 1.6 Mbps Flash  
 H.264 720 480p @ 8 / 10 Mbps Flash  
 H.264 720p @ 8 / 15 / 16 / 20 / 24 / 25 Mbps Flash  
 H.264 854 480p @ 8 / 10 Mbps Flash  
 H.264 960 540p @ 3 Mbps Flash  
 H.264 1080p @ 8 / 15 / 16 / 20 / 24 / 25 Mbps Flash  
 H.264 SD @ 4 / 8 / 15 / 20 / 25 Mbps  
 H.264 480p @ 0.5 - 2 Mbps High Profile (Live)  
 H.264 360p @ 0.4 - 1 Mbps High Profile (Live)  
 H.264 240p @ 0.3 - 0.7 Mbps High Profile (Live)  
 ProRes Proxy 1920x1080  
 ProRes Proxy 1280x720  
 ProRes Proxy 960x540  
 ProRes Proxy SD (16:9 Raster)  
 ProRes Proxy SD  
 MPEG-1 (layer 2) @ 1.5 Mbps  
 Avid MPEG-2 (SIF @ 2Mbps)  
 H.264 Interplay Web (SD, 800 Kbps, and 2 Mbps)  
 Sony Proxy AV (MPEG-4 Part-2) @1.5 Mbps

**OTT Formats \***

**Output OTT Formats**

H.264 2160p 35 - 68 Mbps High Profile
H.264 1440p 16 - 24 Mbps High Profile
H.264 1080i 35 Mbps High Profile
H.264 1080p 8 - 12 Mbps High Profile
H.264 720p 5 - 7.5 Mbps High Profile
H.264 480p 2.5 - 4 Mbps High Profile
H.264 360p 1 - 1.5 Mbps High Profile
H.264 2160p 13 - 51 Mbps High Profile (Live)
H.264 1440p 6 - 18 Mbps High Profile (Live)
H.264 1080p 3 - 9 Mbps High Profile (Live)
H.264 720p 1.5 - 6 Mbps High Profile (Live)
H.264 480p 0.5 - 2.0 Mbps High Profile (Live)
H.264 360p 0.4 - 1.0 Mbps High Profile (Live)
H.264 240p 0.3 - 0.7 Mbps High Profile (Live)
H.264 360p CBR MAIN Profile
H.264 432p CBR MAIN Profile
H.264 576p CBR MAIN Profile
H.264 720p CBR MAIN Profile
H.264 1080p CBR MAIN Profile
H.264 576p CBR - 3 Mbps MAIN Profile
H.264 720p CBR - 4 Mbps MAIN Profile
H.264 1080p CBR - 5Mbps MAIN Profile
H.265/HEVC 10 Mbps LGOP
H.265/HEVC 25 Mbps LGOP
H.265/HEVC 50 Mbps LGOP
H.265/HEVC 100 Mbps LGOP
H.265/HEVC LGOP 4:2:2
Google® VP9 (Full HD)
Google® VP9 (4K)

\* Optional output

**Product Integrations**

Editing Systems	MAM / PAM / DAM	Stream	CDN's
Adobe Premiere Pro	CatDV MAM	Newtek NDI	Lumen
AVID Media Composer	CatDV PAM	Haivision SRT	Fastly
AVID Media Central UX	CatDV DAM	Zixi	Akamai Technologies
AVID Media Central Cloud UX	eMAM Media Asset Management	<b>Consumer Cloud Storages</b>	Microsoft Azure
Apple Final Cut Pro X	Telestream: Masstech	Dropbox	Cloudflare
Edius: Pro 8, Workgroup 9	AVID Interplay	Google Drive	Limelight Networks
BlackMagic: DaVinci Resolve Studio	AXLE MAM	Microsoft One Drive	Amazon CloudFront
Autodesk: Flame	Editshare Flow	Apple I Cloud Drive	BootstrapCDN
Storage	MOG Vizzi	VTR Decks	StackPath
AVID ISIS Storage	Medialoopster MAM	XDCAM HD: Disc (PDW 1500)	KeyCDN
AVID Nexis Storage	<b>Professional Cloud Storages</b>	XDCAM HD: Disc (PDW HD1500)	Rackspace
Avid Unity™ MediaNetwork	Adobe Creative Cloud	XDCAM HD: Disc (PDW F70)	Alibaba Cloud Content Delivery Service
Dynamic Drive Pool SAN Storage	Amazon EC2	XDCAM Station (XDS1000)	CacheFly
Facilis Terrablock	Amazon S3	<b>Cameras</b>	Verizon
Harmonic MediaGrid	Amazon S3 Glacier	Canon: DSLR 5D, DSLR 7D	<b>Hypervisors</b>
Quantum: Storenext	Microsoft Azure Storage	Canon: DSLR C100, C300	Microsoft HyperV
Scalelogic: NX2 & ZX NAS Storage	Microsoft Azure Virtual Machines	ARRI: Alexa XT (ARRIRAW)	VMWare ESX
Editshare EFS	Tencent: Cloud Storage	Panasonic AU-EVA1, GH5 Cameras	<b>Social Media *Optional</b>
EMC: Isilon	Lucidlink Cloud NAS	Panasonic CX350 HEVC	Facebook
QNAP	Google Cloud Storage	Panasonic PTZ Cameras	Twitch
Studio Network Solutions: EVO	IBM Cloud Object Storage	Ikegami Gfpack	X (Twitter)
Oracle Storage	Generic S3	JVC: AVC HD camera models	YouTube
Netapp	<b>Peripheral Devices</b>	LUMIX DC-S1H	Vimeo
Audio	Countour Shuttle Pro V2	NewTek PTZ3, PTZ3 UHD Camera	
Dante *Negotiated separately	Elgato Stream Deck	RED Digital Cinema	
		GOPRO	

## Minimum Hardware Requirements

### For UHD

Features	Specs
CPU	2x Intel Xeon Gold 6342 2.8G or above
RAM	16x 8GB DDR4
OS Drive	480GB SSD
Network	2x 10 Gb Ethernet Port + 2x 1 Gb Ethernet Port
Capture Card	1x DeckLink 8K Pro for 12G UHD SDI (Full Height card)
Hardware Encoders (Recommendation)	2x Nvidia A2 (H.264) / Matrox M264 (4K/UHD XAVC)
Operating System	Windows 10 IOT LTSC or SAC

### For FHD

Features	Specs
CPU	2x Intel Xeon Silver 4314 2.4G or above
RAM	8x 8GB DDR4
OS Drive	480GB SSD
Network	2x 10Gb Ethernet Port + 2x 1 Gb Ethernet Port
Capture Card	1x DeckLink Duo 2 Mini for 3G HD SDI (Low Profile card)
Hardware Encoders (Recommendation)	1x Nvidia A2 (H.264)
Operating System	Windows 10 IOT LTSC or SAC

## Concurrent Media Operations

With mPORT, it is possible to run different media operations simultaneously, thus guaranteeing a universe of distinct arrangements to meet the challenging day-to-day activities of media production companies.

Media operations include recording, ingest, playback, live video streams, file preview, live channel switching, and intercom.

It is designed to accommodate the simultaneous execution of up to 2 media operations simultaneously. However, its extensive scalability provides the flexibility to incorporate additional channels based on your specific requirements and the physical I/O ports available on the server. This versatility allows you to perfectly integrate and coordinate multiple operations, as illustrated in the table below:

Concurrent Media Operations				
Record / Live Video Stream	Playback	File Preview	Live Switch	Intercom
Includes 2 live channels *	Includes 2 playback channels *	Up to 5 files preview	Up to 1 operation	Up to 1 operation

\* Operations dependent on SDI video inputs and outputs can be scalable in accordance with the physical limit of the video card on the server. Thus, the sum of these operations cannot be greater than the number of these I/Os.

## Product

Part Number	Product	Description
mtsw	mPORT Software	Multi-format software application for recording, playout, encoding, and decoding



## Available Options

Choose from the products below to customize the mPORT according to your business rules.

### Production Tool

Tool for asset management and workflow orchestration.



#### mPLAN

Setup scheduled events not only from the standard scheduler but through a unique roll out view interface. mPLAN is a tool that maintains a single rollout view of all scheduled events, allowing the management of the ingests process very efficiently. It manages multiple scheduled events across a variety of recording platforms in a multichannel environment using router control cross-points.

Part Number	Product	Description
mpla1csw	mPLAN	Scheduler & Router Control per licensed channel / port

**Note:** Adding optional features might affect the number of simultaneous operations.

### Add-ons

Input option to complement your workflows.

Part Number	Product	Description
mtswac	Additional channel / Port	Scale the number of channels / Ports

**Note:** Adding optional features might affect the number of simultaneous operations.

Output options to complement your workflows.

Part Number	Product	Description
oasasw	OTT & Social media	Two output resolutions for OTT & two simultaneous social media shares
oasaacsw	Additional OTT & Social media channel	Scale the number of OTT & Social Media output channels

**Note:** Adding optional features might affect the number of simultaneous operations.

### Plugins

Complement any media production and distribution workflow with turnkey plugins and extensions.



#### Screen-m

Quickly capture and deliver your screen contents to your production environment.

Easily record your screen in its entirety or choose one of the open windows. You can even enable the capture of a microphone and the mouse cursor to make it easier to explain any presentation.

Part Number	Product	Description
scpi	Screen-m plugin	Screen capture & Delivery

**Note:** Adding optional features might affect the number of simultaneous operations.

### Hardware

Customize your solution to your day-to-day media needs.

Part Number	Product	Description
pcbx	Peripheral module	Optional MOG module to expand I/O available with 1x LTC, 1x audio output, 1x GPI, 1x GPO and 4x RS422
-	IO card	To scale the number of inputs and outputs
-	IP live card	To provide IP media production infrastructure
-	AVC encoder card	To enable the AVC-Ultra hardware encoder accelerator

**Note:** Adding optional features might affect the number of simultaneous operations.

Contact our sales team at [sales@mog-technologies.com](mailto:sales@mog-technologies.com) to find out how to purchase or in case you need more information.

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