Grass Valley
WE LOVE LIVE

ELASTIC RECORDER
The Ultimate Ingest Tool

Any Input – Any Location – Any Storage

Produce any event from anywhere, instantly. Elastic Recorder captures any format to any storage and makes it immediately available to your whole production team, no matter where they are located.

Record from anywhere to anywhere

- Enable a globally distributed workforce that can work remotely. Control a recording from anywhere on the planet

- Fully integrated with AMPP Asset Management and AMPP AM Scheduler

- Works standalone with scheduled start time or crash record capabilities

- Elastic Recorder can be spun up on-prem or in the cloud, writing to any available storage accessible via a UNC path. This could be either NAS or DAS, or if cloud storage is required, for example in AWS, could be an EBS volume attached to an EC2 instance

Recording any format on any input

- Recorder separated from input sources provides greater flexibility. The record resolution and frame rate can be independent from the incoming sources

- Supports reading and writing any resolution and any frame rate with full crossconversion

- Any input — SDI, SMPTE ST 2110, NDI, SRT, RIST, RTMP, TS

- Choice of write codecs

Record as many sources as needed and begin editing within seconds of record start

- No limit on the number of ingest channels

- Growing media file support for both high-res and proxy where fast turnaround is essential

- Pay only for what you use and when you use it. Reduce cost of ownership. No upfront hardware purchase required to meet peak demands

- Cloud-first microservice architecture
- SDI, SMPTE ST 2110, NDI, SRT, RIST, RTMP, TS
- Spin up/down on–prem or in the cloud
- Integrated with AMPP AM Scheduler

- Growing file support for both high-res and proxy
- Record from anywhere to anywhere
- Full crossconversion any resolution, any frame rate
- On–prem, NAS, DAS, cloud

- Timecode choices — recorded timecode can be from the incoming source, at a fixed start time or as Time of Day (with a UTC offset) locked to an NTP or PTP source
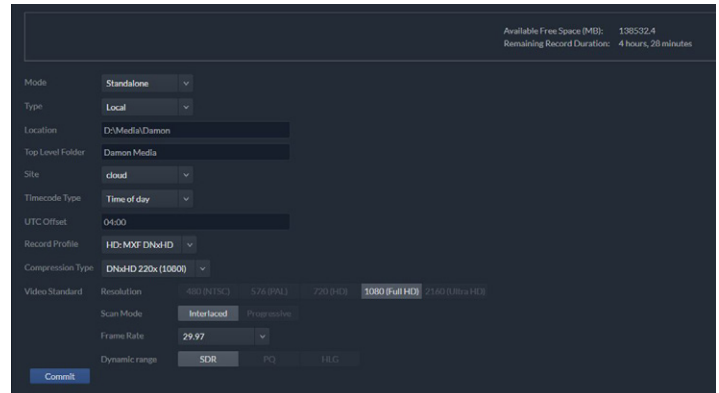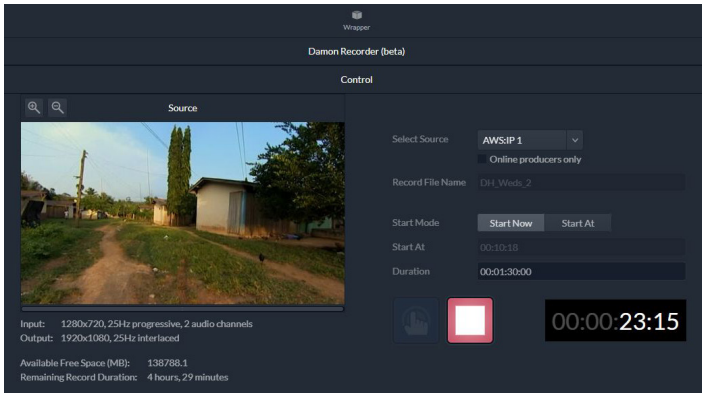
By supporting growing file access while in record, the moment a capture starts, the high–res media and proxy are available for viewing/logging/editing in AMPP Asset Management or distribution in AMPP Playout.

Productions can include footage from anywhere, because no matter the source, or even if the source changes, Elastic Record will automatically do full crossconversion of both resolution and frame rate to match the target record profile with a clean cut in the destination file.

Recorded timecode can be from the incoming source, at a fixed start time or as Time of Day (with a UTC offset) locked to an NTP or PTP source.

The Elastic Recorder is fully integrated into AMPP Asset Management and the AMPP Asset Management Scheduler. Every asset recorded with the Elastic Recorder to "local" storage will have its location registered in AMPP Asset Management and the proxy made available in the stream store for federated access. Every Elastic Recorder channel can be set up in a "Standalone" mode or a "Schedule" mode. When in the "Schedule" mode, the Elastic Recorder can be configured to work directly with the AMPP Asset Management Scheduler.

In Standalone mode, the record can also be scheduled to "start at" any time from within the Elastic Recorder control UI, or simply put into a manual crash record.

Once a recording starts, the Elastic Recorder will dynamically show and update the remaining duration available on the storage for the particular Record Profile being used.

Recordings can be made to any location that is accessible via a UNC path with suitable bandwidth. For example, this could be an EBS volume attached to an EC2 instance, an on–prem NAS or local DAS like the internal SSD storage provided on Grass Valley's AMPP Edge servers.

Recordings can also be made to an S3 bucket directly from within the Elastic Recorder. To then register the asset with AMPP Asset Management, you can use a "transfer to S3" workflow. Once the transfer is complete, the asset be accessible in AMPP Asset Management.

The AMPP Elastic Recorder is built around a cloud–first microservice architecture and as such allows for spinning up and down of channels on demand to meet requirements.

Specifications

Video I/O

SDI
SMPTE ST 2110
NDI
RIST
RTMP
SRT
Transport Stream

Record profiles

NVENC H.264:
— 5-50 Mb/s (CBR or VBR)

XDCAM HD:
— XDCAM HD@HL 50 Mb/s CBR
— XDACM EX MP@HL 35 Mb/s VBR

HD: AVCi Class 100 CBG MXF
HD 1080i: AVCi Class 50 CBG MXF
HD: 720p: AVCi Class 50 CBG MXF
SD: MXF RDD3 (D-10), 8 interleaved channels
— 50 Mb/s, 40 Mb/s, 30 Mb/s, 25 Mb/s
SD: MXF RDD3 (D-10), 16 channels
— 50 Mb/s, 40 Mb/s, 30 Mb/s, 25 Mb/s

HD: MXF DNxHD
— DNxHD 145 (1080i)
— DNxHD 220 (1080i)
— DNxHD 220x (1080i)
— DNxHD 145 (720p)
— DNxHD 220 (720p)
— DNxHD 220x (720p)
UHD/HD: MXF ProRes[1]
— ProRes 422 HQ
— ProRes 422
— ProRes 422 LT
— ProRes 422 Proxy
— ProRes 4444 (with alpha)
— ProRes 4444 (without alpha)
— ProRes 4444 XQ (with alpha)
— ProRes 4444 XQ (without alpha)
HD: XAVCi Intra Class 100 CBG MXF
HD: XAVCi Long GOP HD Profile CBG MXF

Storage locations

Any location with suitable bandwidth that is accessible via a UNC path, including:
— DAS (on-prem)
— NAS (on-prem)
— EBS volume attached to an EC2 (cloud)
— S3 Simple Storage Service (cloud)

Works with common cloud service providers such as AWS, Microsoft Azure, Google Cloud

*1 Future release, check for availability.

Ordering

AE-A-ELASTREC

The AMPP Elastic Recorder will record any input and generate both growing proxy and high-res media for access within seconds of a recording start. All recordings are registered and available within AMPP Asset Management.

Available through the AMPP Store. Contact your Grass Valley Sales representative.