



AMPP Solution Packages

Fully hosted cloud solutions to **CREATE, DELIVER** and **CONNECT** including compute, storage and applications.

AMPP Solution Packages enable the quickest path to a cloud-based future and deliver media companies and broadcasters end-to-end solutions for any part of their workflows. Built on the market-leading capabilities of GV AMPP's comprehensive media applications, the packages include everything that is needed for producing, managing and distributing any kind of media content at the highest quality. No previous experience in cloud is needed, as the packages come fully hosted, including compute, basic storage and egress. The intuitive AMPP app store allows customers to spin applications up whenever needed and strategically grow based on changing needs.

Agile Media Processing Platform

Our Agile Media Processing Platform (AMPP) is designed with cloud-based live production needs in mind – frame accurate, responsive and compatible with connected control surfaces and applications. AMPP is a cloud-native platform, built to easily deploy and scale.

Media Creation and Distribution Solutions

Whether you work from a local studio or with globally distributed contributors, AMPP packages may be combined to create work environments for every member of the production team.

AMPP Live Production

Essential

- Up to 8 Inputs and 2 Outputs
- Choice of:
 - Live Producer 8x2
 - Mini Mixer 8 ch
- Elastic Recorder (1)
- HTML Graphics (1)
- Audio Mixer 16
- Clip and RAM Players
- Includes:*
 - 100 hours operation
 - 2 TB/month of egress

Enhanced

- Everything in **Essential** plus:
- Up to 16 Inputs and 4 Outputs
 - Add choice of:
 - Live Producer 16x4
 - Master Control 16x4
 - Replay (4x2)
 - Web Capture (2)
 - HTML Graphics (2)
 - Audio Mixer 32
 - Includes:*
 - 100 hours operation
 - 3 TB/month of egress

Advanced

- Everything in **Enhanced** plus:
- Up to 32 Inputs and 8 Outputs
 - Add choice of:
 - K-Frame on AMPP 32x16
 - Live Producer 32x8
 - Replay (8x4)
 - Web Capture (4)
 - Audio Mixer 64
 - Includes:*
 - 100 hours operation
 - 6 TB/month of egress

* Additional usage and egress is billed at the end of every month, once the package allowance is consumed



As the demand for new content continues to increase, media organizations must find strategies to improve the efficiency of content production from creation to distribution.

By improving the efficiency of the content creation process, allowing collaboration between globally distributed teams, and building systems that adapt dynamically to demand, media organizations can realize significant savings all while producing more content. Grass Valley's cloud-native AMPP Asset Management solution is uniquely positioned to meet these challenges.

AMPP Asset Management

Essential

The Essential package provides the functionality you need for simple playback, such as a barker channel or channels with self-contained assets. It also enables local opt-out and ad replacement under schedule control or in response to incoming SCTE triggers.

Includes 10 TB of storage and 10 TB egress.

Edit

- Edit anywhere with just a web browser using the AMPP Editor
- AMPP Editor covers majority of commonly used editing features, including:
 - Multiple audio video tracks
 - Video and audio effects and transitions
 - Audio mapping and audio key frames
- Record voiceovers
- Direct craft editor integration with Adobe Premiere or EDIUS with hi-res or proxy edit workflows

Workflow

- Automate operations with an intuitive workflow designer tool
- Use for media management (import, delete) metadata enrichment, conform and transfer
- Initiate workflows manually, on asset metadata change, on file delivery or via API
- Link multiple steps together, branch and merge workflow paths
- Leverage third-party AI services such as speech to text*

* Third-party AI service costs not included

Additional egress and storage is billed at the end of every month, once the package allowance is consumed.



AMPP Playout is a true cloud-native playout solution, supporting the wide range of playout functionality that you would expect from Grass Valley, while providing both the reliability and flexibility to meet all your linear origination demands.

Complete workflow from ingest to transmission. Full interaction with other applications like advanced graphics, flow monitor multiviewers, asset management and other AMPP applications.

Spin up a channel in hours rather than weeks. There's no heavy investment or installation for adding channels.

Control from anywhere, playout from anywhere. AMPP Playout's user interface is entirely web-based, allowing full control of your playout solution from any location with an internet connection. Your engineering team can be separate from your operations team and individual channels can be operated from geographically distributed teams.

World-class live performance. AMPP Playout's frame-accurate and ultra-low latency operations are ideally suited for handling high profile live events. It even includes facilities for dynamic commercial management across channels from a single screen.

AMPP Playout

Essential

- Single redundant channel with a single input and output
- SMPTE ST 2022-2, RTMP, RIST, SRT, AMPP streaming
- Embedded audio passthrough
- Dolby D support
- Embedded caption passthrough
- Still & animated logos
- Inbound SCTE triggering
- Live output monitoring

Enhanced

Everything in **Essential** plus:

- Insertion of AFD/ARC
- Visual event transitions
- Voiceovers
- Loudness correction
- Text crawls and DVE
- Inbound & outbound SCTE triggering
- VCHIP support
- Embedded, live & sidecar captions

Additional egress is billed at the end of every month, once the egress allowance is consumed.

Live Producer

Simpler Operation with the Same High-end Creative Features as a Traditional Production Switcher

AMPP offers a new user experience in creating live video programs with the introduction of AMPP Live Producer. Live Producer is aimed at giving production teams many of the same high-end creative features they can get with a traditional production switcher, but with a much simpler operational paradigm.



Like a traditional production switcher, or GV K-Frame on AMPP, AMPP Live Producer can create a show with multiple layers of graphics, text, pre-recorded clips and live video sources. Live Producer supports picture-in-picture with 2D resizing and positioning, as well as image crop, opacity and border controls.

Audio Mixer

AMPP Audio Mixer is a high-performance audio solution for cloud-based live media production. Designed for audio professionals by audio professionals, the solution comes equipped with gain, full equalizer, compression, aux channels, pre-faders, subgroups and monitoring outputs. Easy mixing, grouping and mix-minus workflows adapt AMPP Audio Mixer to any kind of application.



Flow Monitor

Boosted with our innovative FlowMonitor technology, each AMPP Flow Monitor enables low-latency live streaming from anywhere to everyone. Give it to your producers, operators and customers and enable a browser-based monitoring experience in the best quality.



Workflow

Create simple or complex workflows to automate media management, ingest and distribution. Enable AI services to transcribe content so assets can be searchable by spoken word. Create hundreds of workflows that can run on nodes locally or in the cloud, hosted wherever is most efficient. Monitor all active workflows via the intuitive jobs page.



Editor

Edit anywhere on any computer inside a web browser with all the features you need to create polished stories. Add multiple video tracks with effects and transitions that can be customized and saved per user. Add audio keyframes and mix voiceovers creating the type of high-quality media you would expect from an installed editor. Use SD, HD, 4K and even HDR content so your browser-based editor is not limited by the footage you are using.



Graphics

The AMPP Graphics app makes it easy to add HTML5 graphics to your production. Just build your graphics and add the link to your application. You can access it across the entire system.



Mini Mixer

Available with either four or eight inputs, the AMPP Mini Mixer is a great solution for small productions or pre-switching in a larger production. Cut or mix inputs with five different transition effects and different durations.

- 4 or 8 inputs
- 5 transition types
- Slow, medium and fast transitions
- Integrated tally
- Easy channel assignment

Web Capture

Contribute video and audio to an AMPP production from the webcam of a local PC using low-latency enhanced WebRTC streaming. Web Capture provides high-quality, low-latency video contribution with specific attention to audio lip sync and video frame rate conversion. It also features the ability to screen share from the local desktop. The receiver and a sender provide all control needed for a live contribution and a built-in Flow Monitor displays the return video signal.



- High-quality and low-latency video and audio contribution
- Enhanced lip sync
- Enhanced frame rate conversion
- Screen share option
- Built-in Flow Monitor for return signals

Elastic Recorder

AMPP Elastic Recorder is the ultimate ingest tool: **Any Input – Any Location – Any Storage.**

- Supporting SDI, SMPTE ST 2110, NDI, SRT, RIST, RTMP, TS
- Spin up/down on-premises or in the cloud
- Integrated with AMPP Asset Manager Scheduler
- Growing file support for both high-res and proxy



AMPP Elastic Recorder allows you to record from anywhere to anywhere (on-prem, NAS, DAS or cloud storage) at any resolution and any frame rate with full cross conversion. It is fully integrated with the AMPP Asset Management Scheduler and can also work standalone with the scheduled start time feature.

Replay

AMPP Replay is the first replay solution to integrate with an entire cloud ecosystem for live video production. This SaaS application may be quickly accessed through any device with a browser connection over public or private internet. Operators can intuitively select multiple ingest and playout channels and perform highlight editing in the cloud. AMPP Replay supports all common replay functionality, including variable speed playback, shuttle, trim and playlist creation.



- Fully cloud native without hardware restrictions (on-prem also supported)
- Unlimited scale of ingest channels, any source to any destination
- Replay operators can work remotely without compromising the end user experience
- Fluidity and performance with ultra-low latency from anywhere on the planet
- Always in Record (AiR) – never miss any action
- Can use the Grass Valley industry standard panel as a control UI
- Highlights and playlists available with a single button press
- Access to the full GV AMPP OS