

K-FRAME CS X

Cloud-based Live Video Production with a Familiar Professional Workflow



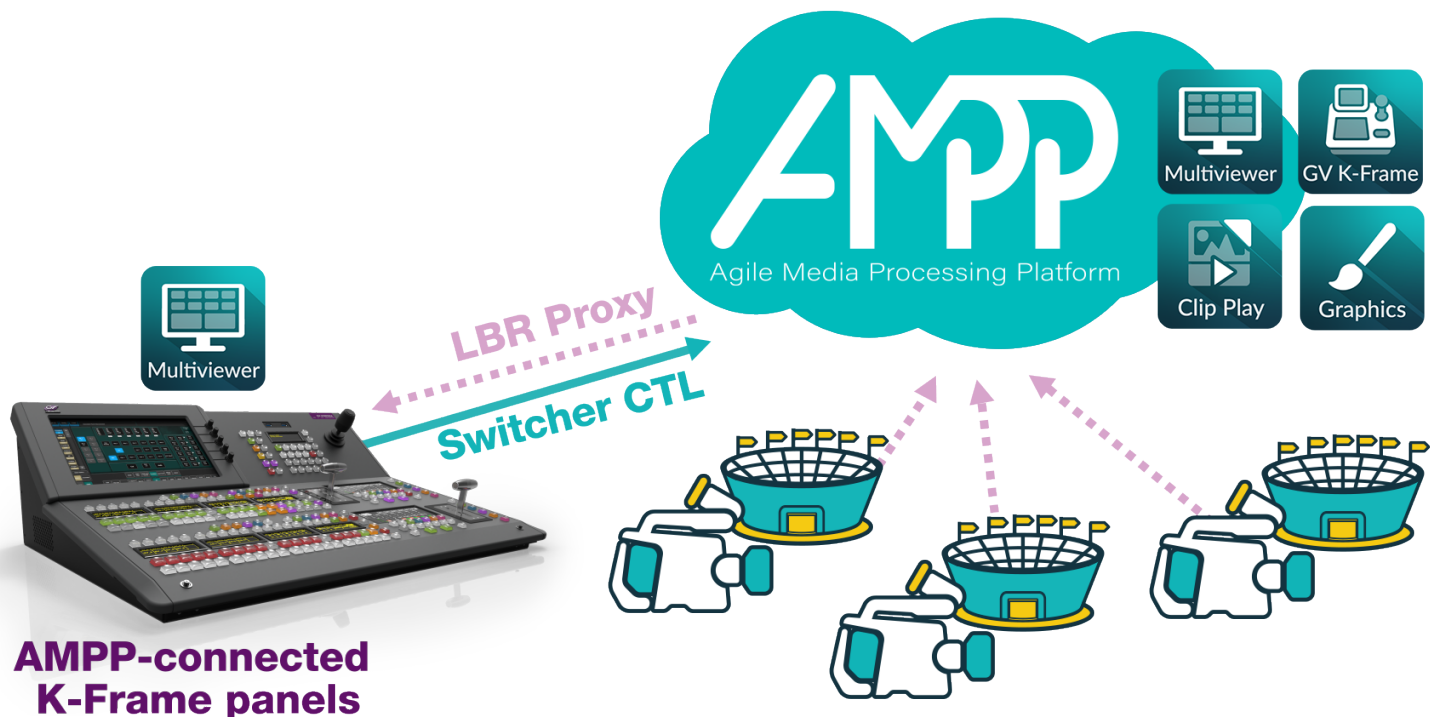
Grass Valley® continues to fulfill its commitment to provide any panel for any engine across its series of video production centers. Kayenne®, Karrera®, GV Korona®, and KSP control surfaces connect with K-Frame CS X to provide a simple transition to cloud-based video production. Any panel from the series operates in the same way regardless of the production environment. TDs can get right to work – even transferring show files between K-Frame CS X and K-Frame™ engines.

For many TDs, operating a production switcher is done by muscle memory, knowing a panel so well that it is an automatic extension of the hands while the conscious attention focuses on the incoming video sources and cues to switch a show. The K-Frame CS X Production Switcher allows TDs to immediately transfer that intuitive knowledge to cloud-based video production. Button presses and transitions respond without delay, providing the precise control TDs have come to expect from Grass Valley production switchers.

With three M/Es and six keyers with 2D DPM per M/E, operators have the creative resources required for professional video production. Stills and animations with fill/key including transparency also provide a polished production look. Those looks are easy to create and store with hundreds of E-MEMs and macros available for recall at the touch of a button with the familiar Grass Valley feel.

Key Features

- Scalable to as many instances as required without upfront buildout
- Flexible, elastic I/O with access to any source on the AMPP® fabric
- Cloud hosted workflows without sacrifice on responsiveness and accuracy
- Operator experience remains the same regardless of distance from the processing
- Frame-accurate for live production
- Fully compatible with connected control surfaces and applications
- Intuitive software solutions



Security

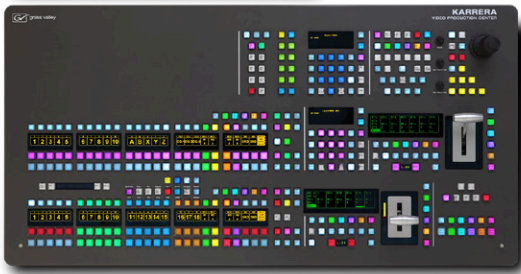
As a cloud native, AMPP is designed from the ground up with security in mind. Conforming to the best IT practices of a representational state transfer (REST) architecture:

- All REST operations are executed over HTTPS for secure communication.
- All REST operations rely on JSON Web Tokens (JWT) for authorization.

IP streaming in AMPP is encrypted when applicable (SRT (AES), RIST (AES), RTMPS (TLS/SSL), WebRTC (DTLS/SRTP), AMPP Streaming (DTLS/SRTP)).

To ensure strict security standards are maintained, Grass Valley also regularly conducts third-party penetration testing.





Initial Configuration

I/O channels	Compute instance dependent. Consult your Grass Valley representative
Format support	720p, 1080i, and 1080p
Number of M/Es	3
Keys	Up to 18 (6 per M/E)
Key and fill	Linear/Luminance/Chroma
Wipes	Horizontal and Vertical
Animation playback with transparency	Yes
Still PNG/JPG support	Yes
ImageStore	10 channels
2D DPM (with border, edge/corner pinning)	Yes
eMEMs	1,000
Macros	999
Share show files between production engines	Yes
Source definition, labeling and mapping	Yes

Required Apps



Optional Apps



See Grass Valley website for detailed app information.

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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