

AMPP

TELOS INFINITY® VIP on AMPP

The GV Media Universe continues to expand with new professional tools for live media production in the cloud. In partnership with the Telos Alliance, Grass Valley is releasing Telos Infinity VIP on AMPP, a professional intercom solution for cloud-based media production workflows. Developed as part of the Grass Valley Technology Alliance, Infinity VIP on AMPP supports essential intercom functionality that is already well known to production professionals, including partylines, IFBs, groups and peer-to-peer communication.

Supporting live production from anywhere, operators access Infinity VIP on AMPP from any connected browser. Any computing device that supports a compatible HTML5 browser connection can use Infinity VIP Panels. Each panel has three available pages of Talk/Listen keys, meaning that a VIP-16 panel has a total of 48 accessible virtual buttons.

The microphone and speakers from the connected phone, tablet or computer allow operators to communicate with team members, while using the same device for performing their job functions using other AMPP-enabled solutions such as switching, audio mixing, routing and monitoring.

The Telos Infinity VIP intercom is fully compatible with GV AMPP solutions. Intercom and production audio are easily and efficiently shared between other AMPP applications, allowing new capabilities such as embedding intercom audio into video or routing a mix-minus feed into the intercom.

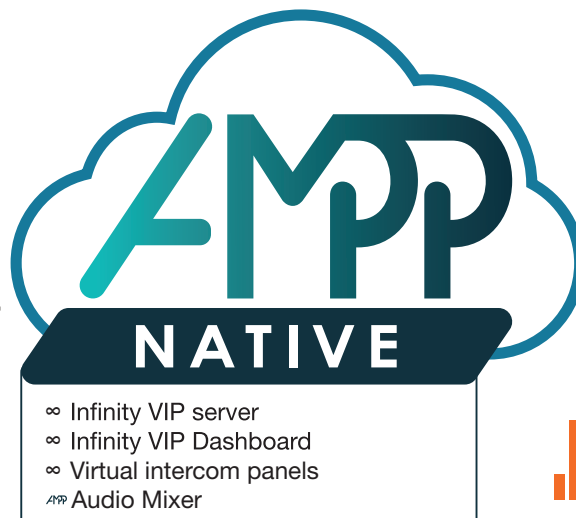
This GV AMPP native SaaS solution is tightly integrated from both an operational and commercial standpoint for a frictionless experience. The Infinity VIP on AMPP cloud server and virtual panel apps are available from the AMPP app store and deploy in same way as any AMPP application. Usage monitoring is consolidated with other AMPP applications to provide a single billing experience.

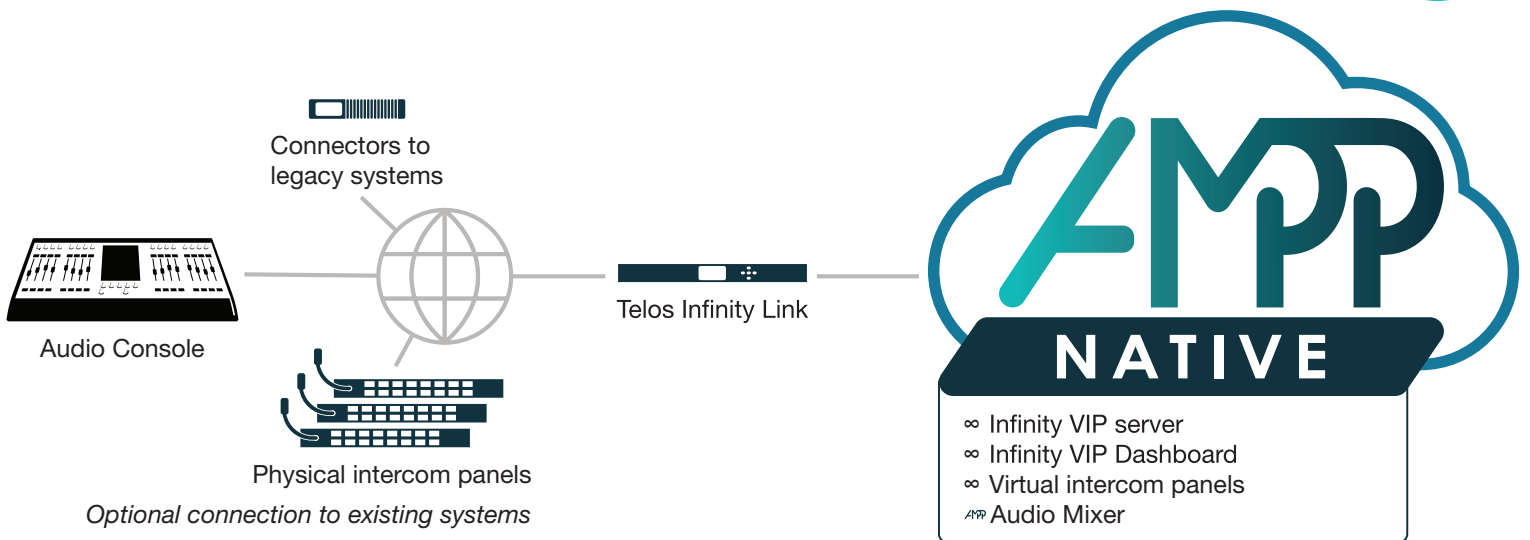
While providing the latest in flexible user interfaces, this new intercom solution also provides cloud connection for existing intercom hardware, providing all the benefits of a new cloud-enabled system while retaining existing intercom infrastructure and workflows. Infinity VIP uses a technology called Infinity Link™ to connect to other cloud-deployed audio subsystems, as well as non-cloud deployed audio subsystems via WAN or Internet and presents them to the intercom system as four-wire inputs and outputs. By using Infinity Link to trunk four-wire circuits from a matrix-based comms system into Infinity VIP, it is simple to add Infinity VIP's virtual communications onto any intercom system. Non-cloud connections require a supported Infinity Link endpoint such as Infinity Link Gateway to interface with baseband, AES67 or SMPTE ST 2110-30 media streams.

The Telos Infinity VIP on AMPP makes live media production in the cloud simple, with known user interfaces, expected performance parameters and consolidated business points of contact for the entire solution.



Browser-based UI accesses device microphone and speaker





AMPP provides a new level of freedom for cloud-based live video production

Designed specifically to meet the response and accuracy requirements of live streaming media and entertainment, AMPP is Grass Valley’s scalable SaaS platform of agile management tools, elastic platform services and intelligent media technologies that are universally deployable.

Freedom to scale

Unlike traditional hardware systems, AMPP does not require a large up-front infrastructure buildout to begin experimenting with new agile media production models. Spin up as many operator instances as required where and when they are needed.

AMPP may be located on any combination of public and private cloud services. As a result, AMPP can quickly spin up solutions that integrate with existing infrastructures. Any subset of network sources can be shared with the AMPP fabric for use by AMPP-enabled cloud production solutions. Each instance of an AMPP-enabled solution can select sources on-the-fly from any that are available on the AMPP fabric.

Freedom to move

Live event environments with reduced on-site production crews frequently want creatives to work remotely. AMPP solutions support remote production at any distance without compromising the user experience.

When at-home production means literally working from home, AMPP is ready to support that work environment. Operators can connect to AMPP using typical residential Internet. The high-quality proxy workflow allows operators to make and act on decisions without requiring a high-bandwidth connection.

Freedom to innovate

Unfettered by bundles of cables, operators continue to work in a familiar environment with Grass Valley’s innovative software tools. AMPP’s patented intelligent technologies allow operators to work in a coherent timespace with confidence and speed. Regardless of the distance from the live event, system operations are instantly responsive. The system’s fully aligned monitoring and communication capability makes it easy for operators to work without distracting timing delays.

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)).

AMPP authentication is handled through an Identity Service, which can optionally delegate authentication to an Okta server.

To secure intercom panels, Infinity VIP features a dedicated Invitation Server, which allows the system administrator to determine who has unique access to each panel at any time. The Server sends an invitation

to connect email with a dedicated HTTPS secure URL and an auto-generated one-time-use password that expires at the end of the session duration, as determined by the administrator. Sessions can be blocked or terminated at any time by the administrator.

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

Key features

- Cloud native application with control surfaces and workflows familiar to production professionals
- Supports the key features of an intercom system, including unlimited PLs, IFBs and groups
- Share intercom and audio with the AMPP fabric for embedded intercom or mix-minus feeds
- Choice of virtual panel sizes running in HTML5 browser window
- Dedicated Invitation Server, allows administrator to determine who has unique access to each panel
- Option to integrate with existing physical intercom systems
- Consolidated usage monitoring with other AMPP applications for a single commercial experience