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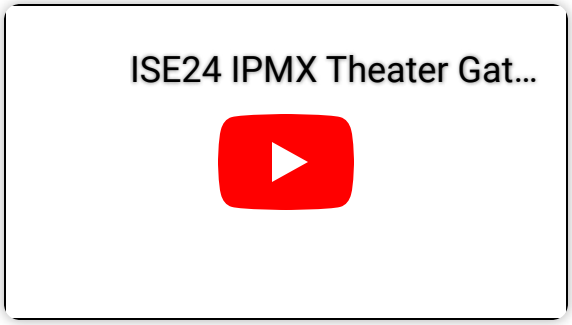

Transcript

00:00 I am Aaron dton with uh plexus AV I am the uh director of technology and marketing over there um going to be talking about a very important part of the uh ipmx technology stack and that is the topic of gateways uh to bridge uh communication between ipmx networks and other protocols so we will get started here um so obviously it's IC 2024 so I think if you're in the as Booth you probably know something about uh

Summary

Gateways are an important part of the IPMX technology stack as they bridge communication between IPMX networks and other protocols, allowing different technologies to work together and driving innovation in the AV over IP industry.

Timestamped Highlights

0:00 -1:06 📺: Aaron introduces himself and the topic of gateways in the IPMX technology stack.

1:06 -2:39 🌐: Gateways bridge communication between IPMX networks and other protocols, allowing different technologies to work together and driving innovation in the industry.

2:39 -3:54 📦: Gateways involve repackaging, encoding/decoding, and timing synchronization between different technology ecosystems.

3:54 -5:13 🎥: Gateways can handle uncompressed and compressed systems, with different latency and bandwidth requirements.

5:13 -6:18 🔧: Gateways can also handle management and control, though integration with proprietary control systems can be challenging.

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protocols like SRT and RIST, enabling geodiverse systems.

7:03 -8:03 🌐: IPMX allows for the utilization of different technology ecosystems, fostering innovation and retrofitting of existing systems.

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Key Insights

- 💡 Gateways play a crucial role in bridging communication between IPMX networks and other protocols, allowing different technologies to work together and driving innovation in the AV over IP industry. This opens up possibilities for installers, distributors, and integrators to avoid being trapped in proprietary ecosystems.
- 💡 There are three main functions of gateways: repackaging, encoding/decoding, and timing synchronization. Repackaging involves sharing data between different systems, while encoding/decoding handles the translation of video and audio compression methods. Timing synchronization ensures that devices and processes can sync up with each other.
- 💡 Gateways can handle both uncompressed and compressed systems. Uncompressed systems involve repackaging streams without compression, while compressed systems require decoding and encoding to handle video and audio compression. Latency and bandwidth vary depending on the compression algorithm used.
- 💡 Integrating IPMX with proprietary control systems can be challenging, as the control plane in IPMX is based on NMOS while other systems may use different

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enable compatibility between different technologies.
- 💡 Gateways can facilitate streaming over the internet using protocols like SRT and RIST, which offer reliable transmission over open internet connections. This enables the transmission of content between geodiverse sites, such as college campuses or remote production facilities.
- 💡 IPMX allows for the utilization of different technology ecosystems, including both proprietary and open standard technologies. This promotes innovation, retrofitting of existing systems with IPMX technology, and the development of a better industry foundation.

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