

Virtual APT IP Codec

Virtualized APT solutions for Audio/MPX over IP

In line with the market's transition to offer both hardware and virtualized solutions, the famous **APT IP Codec** is now available as a software solution – the **Virtual APT IP Codec**.

This shift to virtualization is strategic in reducing the amount of equipment to purchase, thereby offering important upfront and operational cost savings to broadcasters.

As its hardware sibling deployed on thousands sites worldwide, the Virtual APT IP Codec is a cutting-edge, professional transport solution geared up with unique, market-leading technologies.

It supports **APTmpX**, the highest quality MPX compression algorithm, and SureStream, for robust, low cost, and low latency transport over IP.

The Virtual APT IP Codec is also enhanced by **Virtual ScriptEasy** for advanced automation, and **Kybio**, for end to end monitoring and control of the codec fleet.

Server-based, and fed by AES67, the Virtual APT IP Codec solution offers **high availability** and **high-density encoding/decoding** for next generation broadcast performances. Broadcasters can easily centralize and transport a large volume of program signals and scale the solution as they grow.



Virtual APT IP CODEC Benefits:



High Availability, Optimized IP Transport

Benefits from the same performances as the field-proven APT hardware solutions with thousands of users worldwide. Designed with the highest reliability, 24/7 operation, and compliant with a High Availability (HA) architecture. Compatible with SureStream to compensate any packet loss, and Time Alignment to remove latency fluctuations.



Pristine Audio Quality & Performance

Using AES67, the Virtual APT IP Codec can be integrated into virtualized studios and ingest audio or MPX content transparently. Highest signal fidelity and lowest coding delay, established from the beginning with Enhanced aptX, are transferred to composite/MPX transmissions with the new APTmpX algorithm.



Maximize your Cost Savings

Get rid of hardware with high-density encoding/decoding from a single server. Broadcasters benefit from a flexible and scalable solution and can re-adjust their network size as needed. SureStream, Enhanced aptX, and APTmpX for low bitrate composite/MPX transmissions also contribute to high-quality distribution outside of expensive transmission paths.



+10 Years Experience: Our team of engineers has extensive experience optimizing our algorithm for redundant streaming, making SureStream synonymous with reliable transmission in lossy IP networks.

Low Latency/Low Cost: SureStream enables the broadcaster to turn imperfect, but much cheaper services, into true broadcast-grade, low-latency IP connections.

Scalability and Flexibility: SureStream is the most flexible and scalable solution for content transmission protection, able to combine multiple paths from any combination of MPLS, Satellite, Microwave, xDSL and/or Cellular (4G/5G), creating a unified super robust connection to get your audio from point A to B.

Compressed Composite/MPX: APTmpX is the world's first and only non-perceptual MPX/composite algorithm to save network bandwidth. It protects the sonic signature generated by the station's sound processor settings.

Low Bitrate, Low Delay: An APTmpX sample is decodable on its own. Packet losses in the network have as little effect as those of base-band audio samples. Low delay transmission is inherent and with a bandwidth requirement of <300, <400, <600 or <900kbps, non-dedicated IP connections can be used.

Advanced Control & Management



Graphical user interface

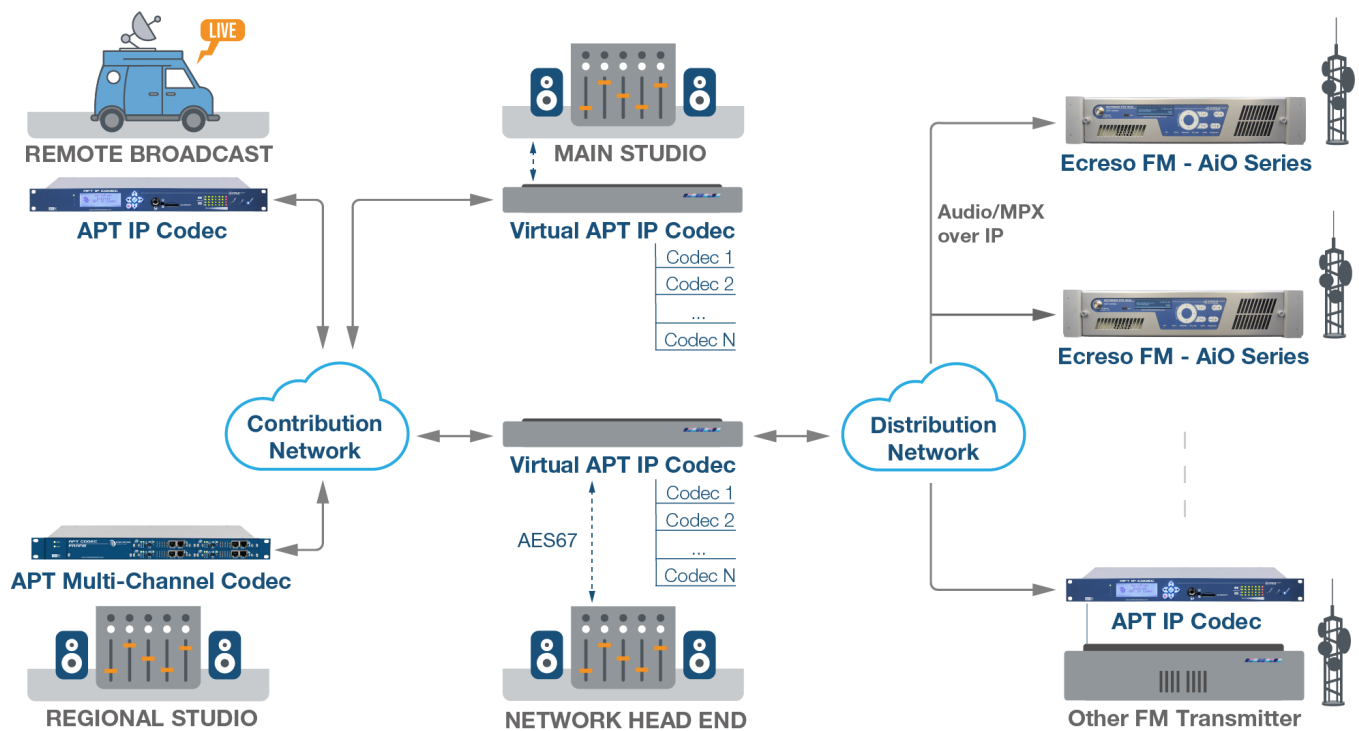


Advanced automation



Unified monitoring & control

Audio/MPX Distribution



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