



Media Information

WISI @ IBC 2019

Optimized B2B Solutions for Operators of next generation networks and Service and Content providers

Niefern-Öschelbronn, August 22, 2019 - WISI, a leading international technology developer based in Germany, will unveil various optimized solutions for the extension and operation of next generation networks at IBC 2019 (September 13 – 17) in Amsterdam (stand D37 in hall 1).

Highlights will include the premiere of the new 4440 chassis, with an increase of 25% more capacity, as well as the new HEVC transcoding module in the Inca Modular Series 4400 Transcoder. Other highlights include new features for the Inca ABR Transcoder 3840, and SRT support for the FIREFLY Platform.

New 4440 Chassis Provides 25% More Capacity for the 4400 Modular Series

WISI has extended its 4400 platform by a new chassis that offers higher density and more flexibility for the operator. The 4440 provides 25% more capacity than its predecessor, the 4430, and includes 4 expansion bays to support 4x transcode modules. It supports linear transcoding of up to 48x HD or 120x SD sources and ABR transcoding of up to 24x HD sources to 4x ABR profiles or up to 48x SD sources to 2x ABR profiles. All in just one rack unit of space, with integrated grooming and monitoring of all streams.

Operators receive greater flexibility with the ability to select between GigE or SFP+ network options and AC or DC power options. It supports high-density audio transcoding between Dolby Digital AC-3, Dolby Digital EC-3, MPEG-Audio, AAC sources and outputs and now supports encoding to Dolby Digital AC-3 and EC-3. Like all Inca products, it includes powerful and easy-to-use VidiOS™ management and troubleshooting tools with inbound and outbound video thumbnails, stream download, extensive statistical analysis, and end-to-end process logging.



HEVC Reception, Processing and Transcode

The new HXC module, compatible with the existing Inca Modular Series 4400, supports transcoding of next-generation HEVC for future proofing and optimizing video distribution. The HEVC codec provides compression savings of up to 40% while maintaining picture quality. Signals received in HEVC can be converted by the Inca Modular Series 4400 back to MPEG-4 AVC or MPEG-2 to ensure compatibility with legacy equipment. The HXC module helps operators support existing cable TV, IPTV, satellite delivery and processing infrastructure by transcoding linear SD and HD HEVC sources to MPEG-4 AVC or MPEG-2 outputs for IP transport video stream distribution.

WISI has also extended the Inca Modular Series 4400 feature set by added N+1 Chassis Redundancy, compatible with Source Specific Multicast (SSM) infrastructure.

Chassis Redundancy in the Inca ABR Transcoder 3840

The high-density and power-efficient Inca ABR Transcoder 3840 offers market-leading cost per stream and is an ideal solution for rapid deployment and reliable OTT video delivery. It sets new performance standards in the international market, is optimized for multiscreen and OTT applications and can transcode up to 24 HD or 48 SD video services to frame-aligned, multi-bitrate profiles in a single rack unit.

To ensure high availability, the carrier-grade adaptive bitrate transcoder has been expanded to include N+1 chassis redundancy with support for multicast source IP masquerading for Source Specific Multicast (SSM) compatibility. Operators can enjoy peace of mind and maximize uptime with N+1 with SSM support and other redundancy features available in the 3840ABR including automatic source failover and redundant power supplies.

The ABR Transcoder 3840 has been approved and certified for MOBIV CONNECT™ deployments in the North American market. This collaboration with the MOBIV CONNECT platform empowers cable operators to invest in and deploy the next generation of video experiences to consumers. Cable operators planning to launch multi-screen services with MOBIV can leverage this partnership and choose WISI's globally-deployed transcoder for their headend.

SRT Support

WISI has expanded its FIREFLY Platform with open source video transport protocol and technology stack SRT (Secure Reliable Transport). SRT is a cost-saving technology for transmitting video content over the public Internet, rather than broadcasting it via expensive satellite links. It optimizes streaming performance across unpredictable networks with secure streams and easy firewall traversal, bringing the best quality live video to users. The main advantages to using SRT are the secure AES 128/256 encryption of the video and audio content and the packet loss recovery through advanced low latency retransmission techniques.

WISI is also expanding the 4400 platform to support receiving and sending SRT streams.

WISI Communications GmbH & Co. KG (WISI)

Wilhelm Sihm Jr. founded WISI in 1926 in Niefern-Oeschelbronn (Germany). More than 90 years later, the high-tech company is one of the world's pioneers in broadband reception and distribution technology. Today, WISI is active globally in the business fields: components for broadband networks, fiberoptics for broadband, digital signal reception, processing and modulation for TV and radio, and in-house multimedia. WISI currently employs 600 people at production sites in Germany, Europe, Canada and Asia. The company has subsidiaries in France, Austria, Switzerland, Sweden, Bulgaria, Spain, Canada, Dubai and China. In addition, WISI works with more than 100 partners in major international markets. For more information, visit www.wisi.de.

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