

WISI America
Company Brochure



Connecting Technology,
Connecting You.

wisigroup.com

Enter the World of WISI

Rely on 100 Years of Innovation

Founded in 1926, WISI has been consistently innovating technology for almost 100 years. We deliver comprehensive solutions across the telecommunications spectrum, including broadband networks, access technologies, IP connectivity, and video solutions. Our expertise enables operators to seamlessly integrate and advance infrastructure, ensuring robust and future-proof communications for today and tomorrow.

Rely on a Global Perspective

Telecommunications operators in more than 150 countries rely on WISI to provide exceptional service and connectivity. WISI offices are located around the globe to ensure efficient support and localized application knowledge.

Rely on a Proven Partner

At WISI, we are a reliable partner to 2500+ customers. We collaborate closely with our channel and technology partners to support the implementation of all telecommunications projects, from small network applications to full system deployments.

Rely on Customer-Centric Values

We play a prominent role in understanding customer needs to develop progressive solutions. This philosophy allows us to apply the same standards of integrity and customer service worldwide.



99 Years in Operation



11 Offices Worldwide



150+ Countries



2500+ Customers



Best Workplaces™

Seven Consecutive Years

Great Place To Work®

2018-2025

A Trusted Partner to Count On

Collapse up to **12**
racks of equipment into 1RU

Save **BIG**
on power costs

Cut up to **84%**
in troubleshooting time



Success Story

Expanding IPTV Services to Hospitality Customers



In partnership with



Challenge

- Legacy cable infrastructure limited Nortex's ability to serve hospitality clients
- High costs and complexity of deploying equipment and set-top boxes at each site
- Risk of exiting the hospitality market due to lack of scalable video delivery options

Solution

- Deployed Inca IP Video Platform with ABR receive license
- Repurposed multiscreen ABR streams for hospitality delivery
- Delivered IP streams to edge using GTBLE23 IP to QAM appliance
- Enabled TiVo-powered IPTV services without on-site headends

Results at a Glance

- Eliminated need for set-top boxes and headends at hospitality sites
- Preserved and expanded Nortex's hospitality offering
- Delivered reliable, high-quality video services using TiVo IPTV sources
- Reduced troubleshooting time and operating expenses across the board

“ We were seriously considering exiting the hospitality market. WISI's ABR solution gave us a way to keep serving those customers—without the cost and complexity of rebuilding our infrastructure.”

- Chris McNamara
Director of Network Operations
Nortex Communications

Success Story

Streamlined Modernization



“Partnering with WISI America was the right decision for our team. All of the equipment we have purchased from WISI has the ability to use new codecs and OTT technologies and WISI is always adding new features. The Inca platform tells us about problems with streams that we’re not aware of, so we’re able to provide better quality service to customers.”

- Grant Hicok
Lead Video System Engineer
Paul Bunyan Communications

Challenge

- Needed to replace aging equipment at end-of-product lifecycle
- Struggled with poor quality support on remaining headend equipment

Solution

- Deployed the Inca IP Video Platform to power next-gen video services
- Utilized Inca’s VidiOS™ management and troubleshooting tools for greater network visibility

Results at a Glance

- Massively simplified headend – reduced 300 network connections down to 6 connections, cutting down the number of switches needed
- Replaced 102 channel encoders with a TRU platform
- Decreased power and heat consumption by 100 times
- Cut time for troubleshooting and improved video quality for subscribers – VidiOS™ helped identify previously undetected stream issues

Discover Key Products

Leaders of Edge Delivery

Inca IP Video Platform

Linear and ABR Transcode Solution



Tangram Video Platform

Hospitality and Edge Solution



Novalink RS-Series

Outdoor Aggregation Switches



Blueline Edge Series

Universal Video Appliance



Blueline Edge Series

IP to 12 QAM Edge Modulator



RECEIVE

- ✓ ABR Receiver
- ✓ Off-air ATSC 1.0/3.0
- ✓ Insert local channels
- ✓ IP, SRT, ASI



PROCESS

- ✓ ABR transcode
- ✓ Linear transcode
- ✓ Encode baseband



SECURE

- ✓ Encryption
- ✓ Bulk decryption
- ✓ BISS, Verimatrix, Pro:Idiom
- ✓ Google Widevine



OUTPUT

- ✓ IP Multicast
- ✓ QAM/Analog
- ✓ SRT, RTP+FEC
- ✓ Package for multiscreen
- ✓ ASI

Multi-TV for Commercial TV Environments

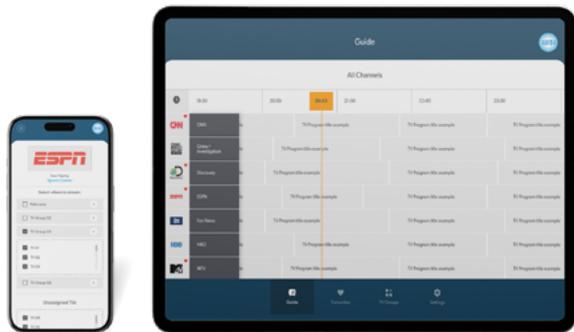
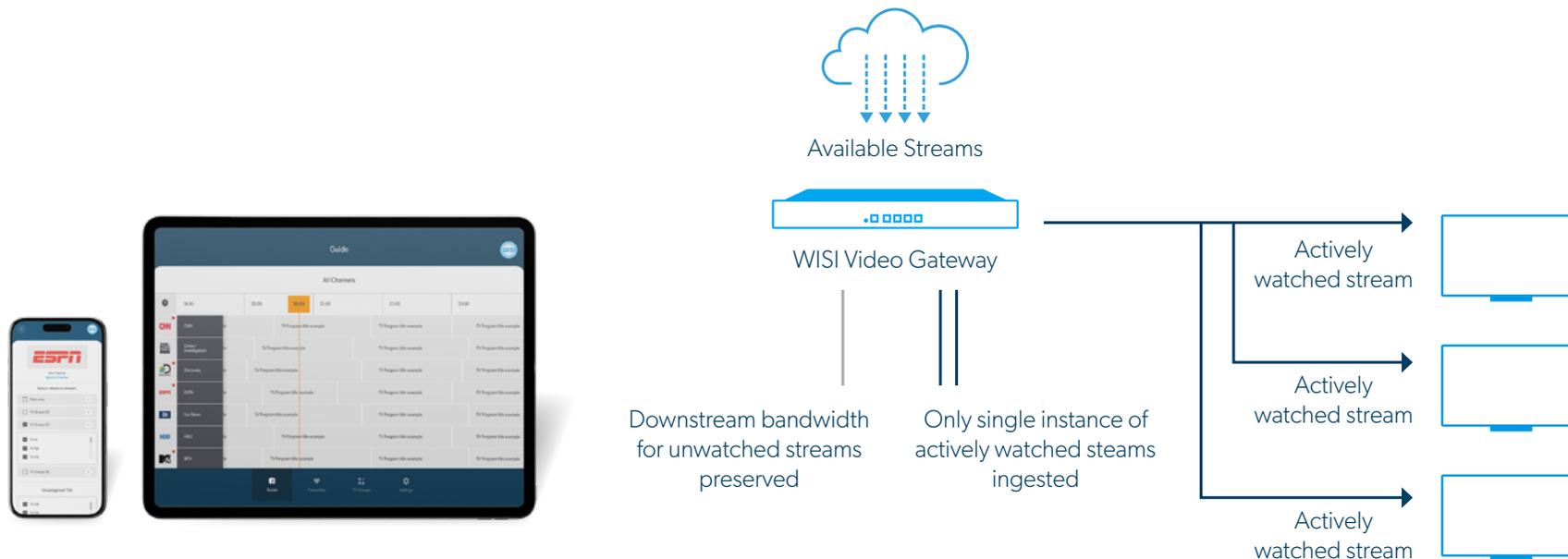
Benefits:

- ✓ Perfectly synced playback - Convert ABR to QAM or IP multicast for screen-to-screen alignment
- ✓ Reduce headend-to-venue bandwidth - Active Channel Streaming ensures only the content in use is streamed, freeing up capacity for broadband and high-bitrate feeds
- ✓ Simple control for staff - Assign and manage channels from a phone or tablet, no remotes required
- ✓ Operator-friendly management - Remote monitoring and API-based control reduce complexity and eliminate truck rolls

Traditional approaches to multi-TV video distribution often fall short. Televisions showing the same live event may be seconds out of sync, creating a jarring viewer experience. Staff are forced to manage multiple remotes and inputs. Systems depend on fragmented or duplicated workflows, and legacy delivery methods can strain limited bandwidth.

Meanwhile, operators waste bandwidth delivering full channel lineups to each site, even when experience shows that only a fraction of that content is actually being watched at any given time.

WISI's ABR Video Gateways eliminate these headaches. With a simplified, low-maintenance gateway and centralized app control, it's purpose-built to meet the needs of today's networks and modern environments.



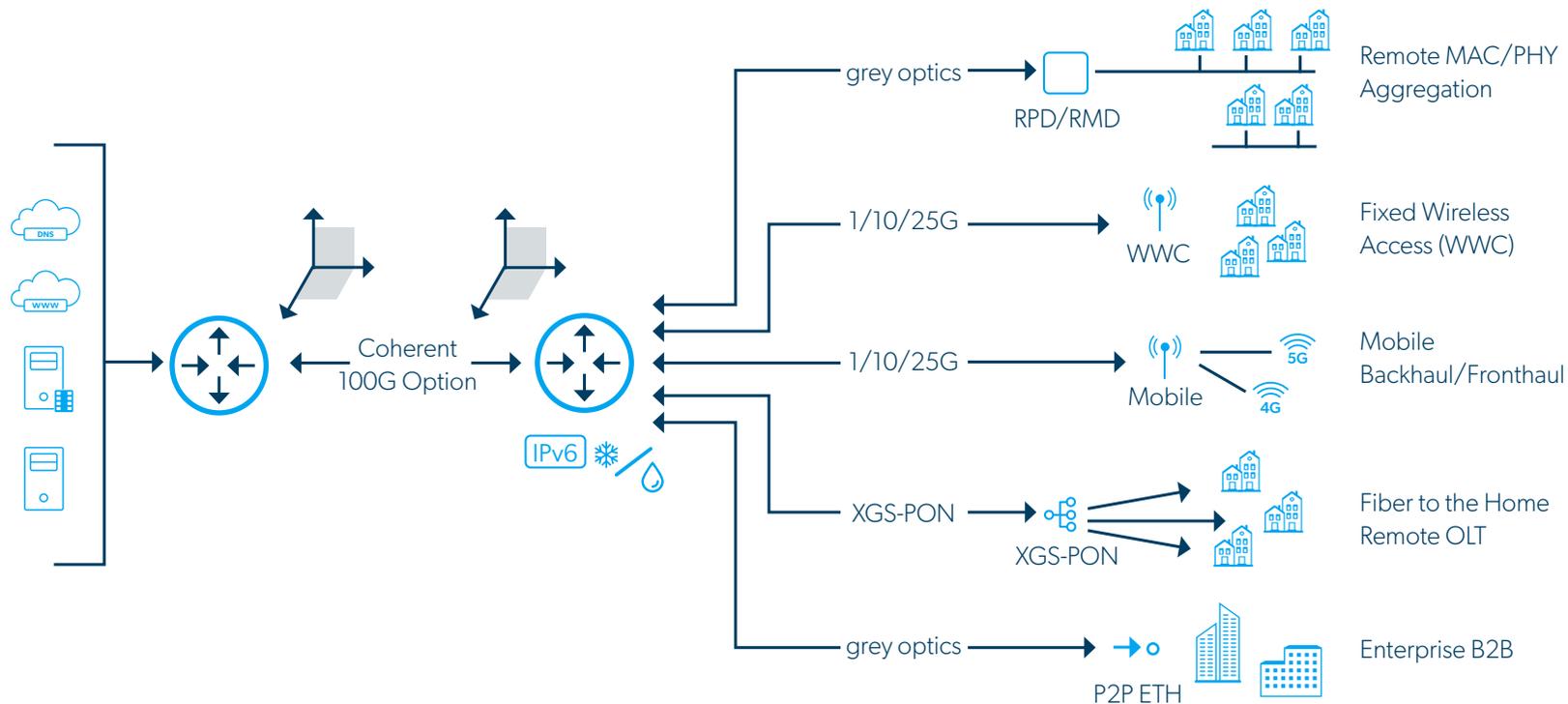
Solutions

Aggregate Everything, Everywhere

In the realm of distributed network architecture, facing limitations with conventional 19" rack units in outdoor settings and their lack of non-blocking aggregation, the Novalink Outdoor Aggregation Switch emerges as a game-changer. With just a single existing fiber connection, the switch seamlessly replaces a lone Remote-PHY node, utilizing a 100G link on fiber. It delivers significantly larger bandwidth over longer distances and also transforms a once-isolated location into a thriving aggregated facility.

Benefits:

- ✓ Extend your network's reach with high-performance 100G uplink bandwidth - push convergence ports further to the edge
- ✓ SFP support provides for bandwidth growth plan, evolve from 1G to 10G to 25G for downstream ports
- ✓ Hardened outdoor enclosure, passively cooled, maintenance free with no moving parts
- ✓ Extended range - no need to build or maintain repeaters



Upgrade Hospitality Networks

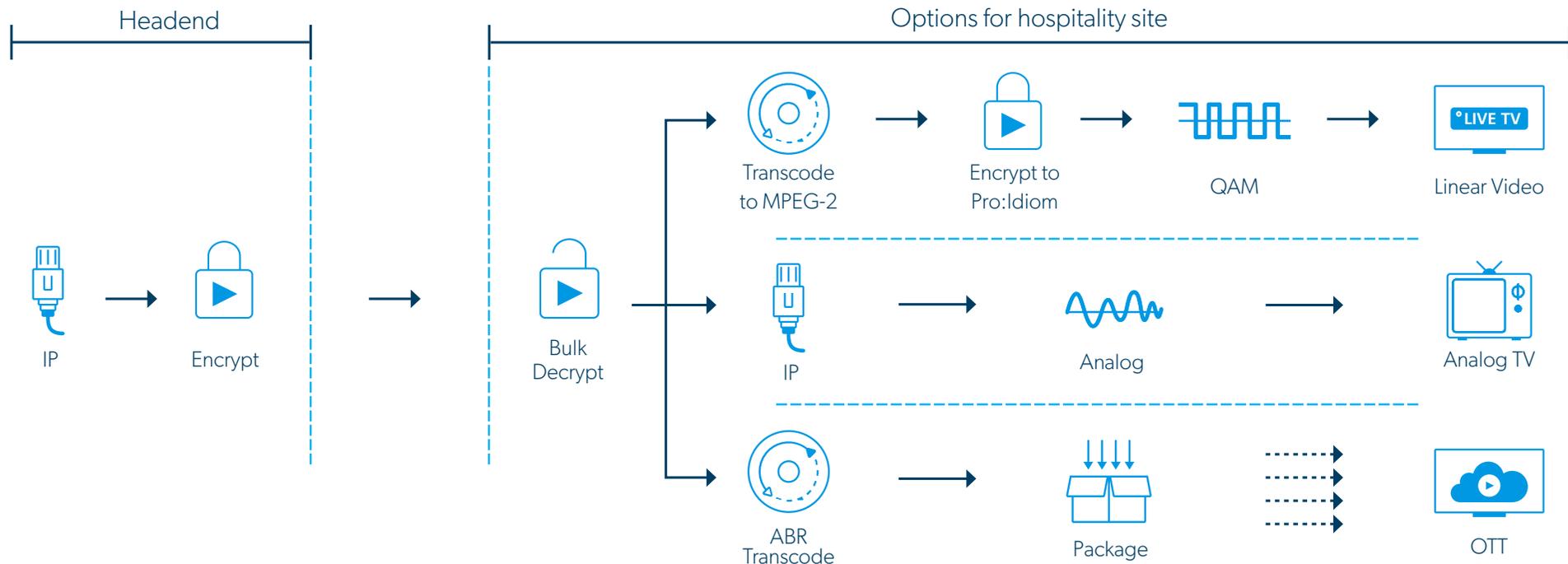
Benefits:

- ✓ Experience reliable and secure video delivery – cost-effective encryption and transport from headend to hospitality sites
- ✓ Gain flexibility by bridging new technology to legacy – convert video streams to any format at the edge, per use-case
- ✓ Reduce costs – replace proprietary encryption with industry-standard protection options
- ✓ Save rack space and power – replace multi-chassis systems with power-efficient, modular TRU platforms

WISI's headend and edge video platforms enable operators to serve all types of hospitality networks such as hotels, hospitals, nursing homes, educational institutions, and entertainment venues.

Operators can upgrade their networks to use modern video delivery, while still maintaining existing infrastructure at hospitality sites. Additionally, operators can utilize a switch to IP to expand and upsell broadband services.

No matter how your existing network is set-up, WISI products are able to seamlessly integrate and provide carrier-grade video delivery.



Solutions

Re-purpose ABR for the Edge

Re-purpose ABR video streams from multiscreen deployments and convert to IP transport stream for IPTV services or to QAM or Analog for hospitality networks. The ABR Receiver allows video operators to connect multiscreen Pay-TV offerings to the edge and maintain existing infrastructure at hospitality sites.

Bulk Decryption:

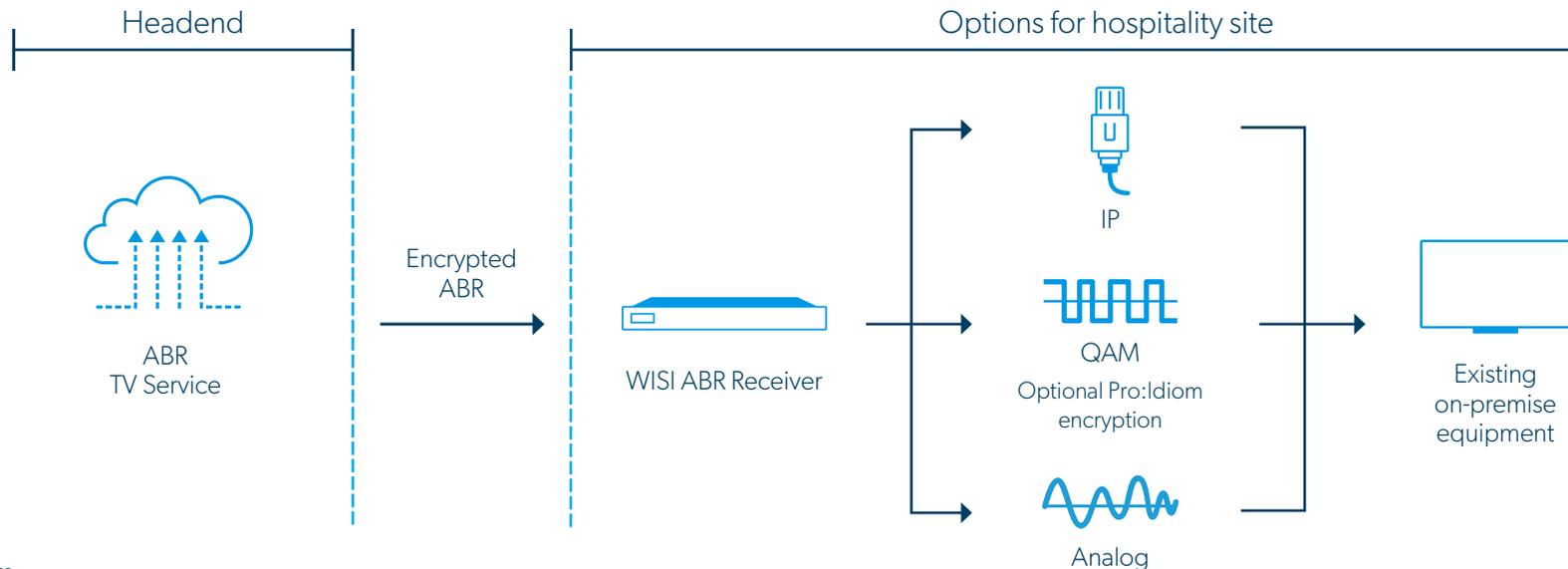


Partner Integrations:



Benefits:

- ✓ Eliminate duplication in the headend - use the same ABR streams for business accounts that continue to serve linear workflows
- ✓ Continue to provide secure end-to-end content protection with ABR bulk decrypt capabilities
- ✓ Provide synchronized screens from ABR sources in venues like sports bars and stadiums
- ✓ Replace QAM-based video delivery with IP delivery to hospitality sites and free up bandwidth for broadband and data services

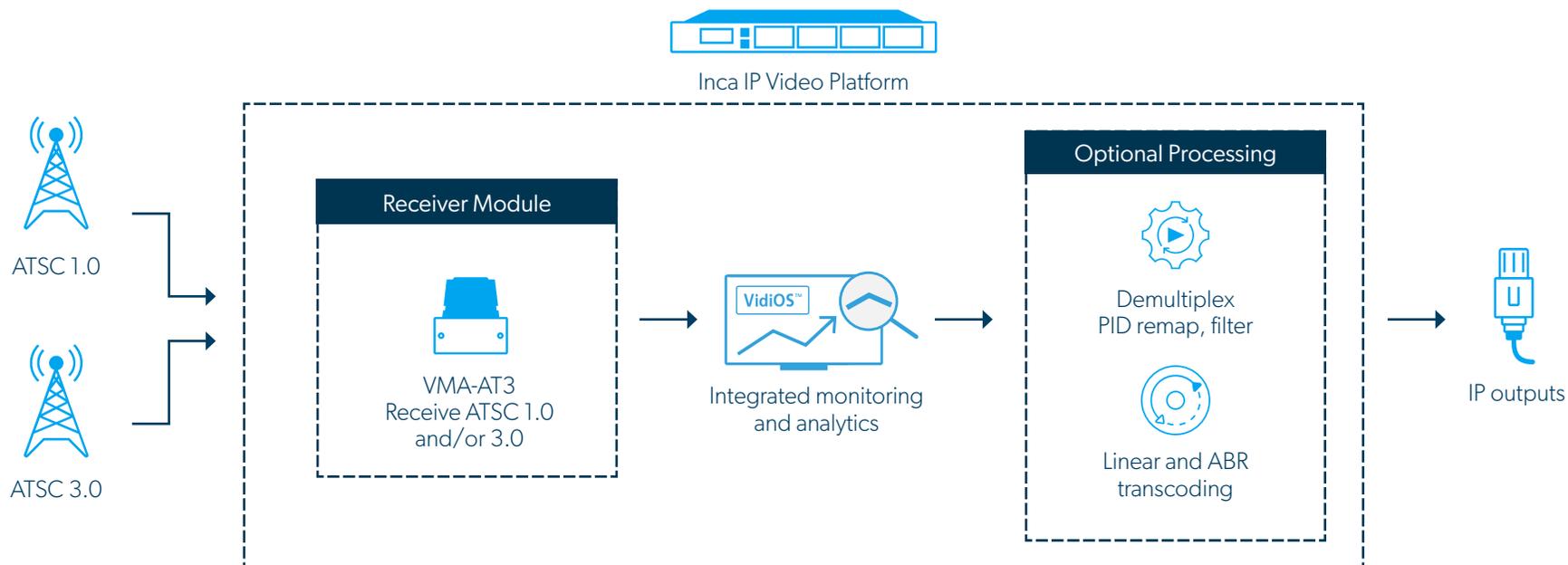


Receive ATSC 3.0 Signals

Benefits:

- ✓ Receive ATSC 1.0 (8VSB) broadcast signals today and upgrade to ATSC 3.0 when ready
- ✓ Mix ATSC 1.0 and ATSC 3.0 reception in a single module for a smooth transition as broadcasters migrate to the new standard
- ✓ Extend the lifespan of video network infrastructure – receive ATSC 3.0 and convert to legacy signals for network delivery
- ✓ Upgrade to ATSC 3.0 remotely without rolling a truck
- ✓ Support Widevine encrypted streams and bulk decrypt for distribution

As the broadcast industry embraces ATSC 3.0, Pay-TV operators need to ensure that they can receive these signals. While ATSC 3.0 is not yet a mandatory format for video operators in the United States, the new standard is the future of over-the-air TV and lays the foundation for a more engaging, immersive television experience. As broadcasters migrate from ATSC 1.0 to ATSC 3.0, operators need the ability to receive ATSC 3.0 or risk being left behind. WISI provides a powerful module for the high-density video solution, the Inca IP Video Platform, that receives QAM, ATSC 1.0 and/or ATSC 3.0 broadcast signals and converts these into IP transport stream.



SRT for Low-Latency Streaming

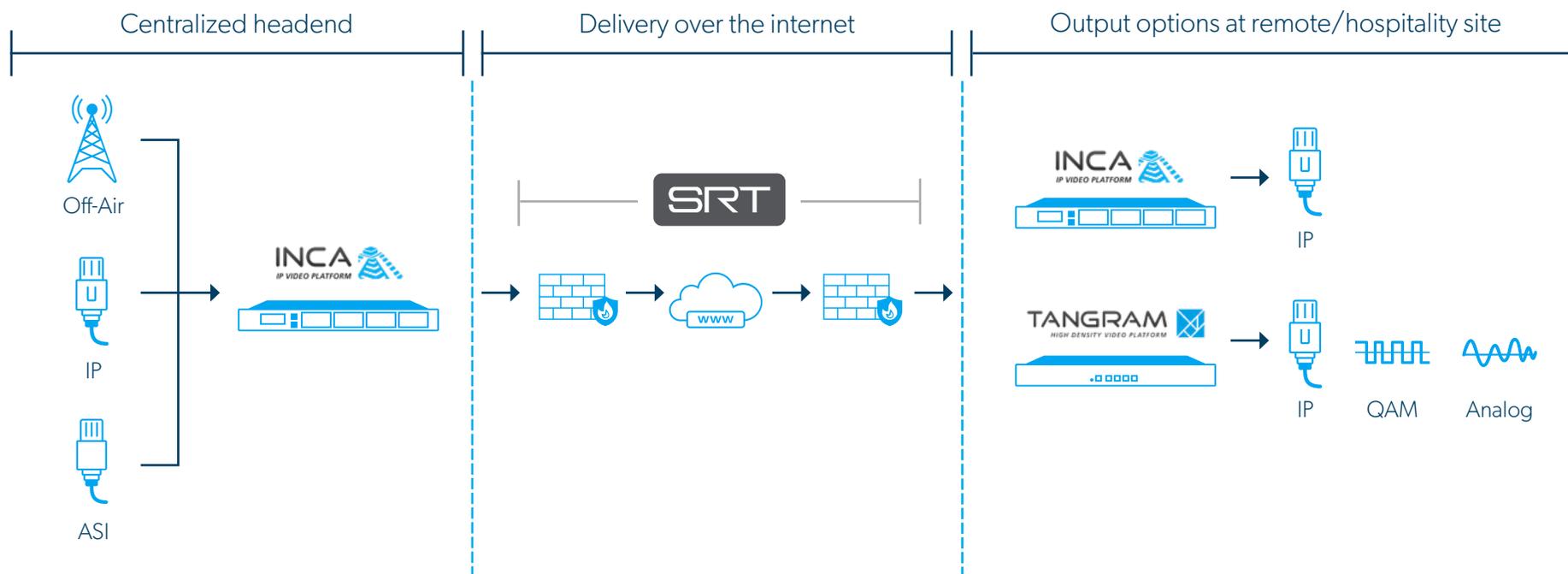
Benefits:

- ✓ Send streams securely and reliably over the internet to remote headend sites or hospitality networks
- ✓ Replace RTP+FEC and improve overhead bandwidth usage
- ✓ Replace expensive satellite distribution deployments to reduce costs
- ✓ Leverage the internet and deliver high-quality video securely to different cities, countries and even continents



SRT (Secure Reliable Transport) is a video transport protocol used to deliver high-quality, low-latency video across unpredictable networks. WISI, a member of the SRT Alliance, supports the SRT protocol in the WISI Intelligent Headend Product family – Inca and Tangram.

Video operators can use SRT in WISI products to optimize streaming performance across noisy or open networks while protecting content securely and focusing on high-performance video.



ABR Delivery Solutions

The multiscreen video market is growing rapidly, and as more viewers enjoy the flexibility of watching TV at any time from different devices, their demand for broadcast-grade quality is increasing. WISI's ABR transcoder empowers operators to offer full cable line-ups to end-users using next-gen video delivery to multiscreen devices, removing the need for set-top boxes and truck rolls.

Three common deployments:

- An on-premise solution where operators maintain their own headend and manage all equipment
- A fully hosted solution where video services are transmitted from hosted headends situated in various North American locations
- A hybrid model, where national channels come from a central hosted provider and local channels are processed by the operator

Benefits:

- ✓ Low-power architecture, consuming less than 200 W per fully loaded TRU chassis
- ✓ Rapid configuration and deployment with VidiOS™, an award-winning web-based UI
- ✓ Powerful VidiOS™ management tools with integrated analytics, video thumbnails, and stream downloads
- ✓ Trusted video delivery solutions, deployed globally by customers such as Access Communications, Cable Bahamas, and Westman Communications

Hosted Solutions:



Ecosystem Partners:



WISI Products

“ We saw in WISI a partner who was willing to listen to what we needed and help us craft the solution in a collaborative way. I would recommend WISI products to other folks in the telecommunications industry because they’re reliable and provide unparalleled support.”

- Rob McCann
Founder, Clearcable

Novalink RS-Series Outdoor Aggregation Switch

WISI's innovative Novalink Outdoor Aggregation Switch is meticulously crafted to cater to the needs of network providers leveraging 1G/10G/25G and 100G interfaces for seamless interconnection and aggregation of devices within their network.

Features:

- ✓ Seamless single fiber extension - Extend fiber with up to 10x SFP28 ports
- ✓ High bitrate, non-blocking aggregation - Achieve 300Gbps switching capacity
- ✓ TSN-ready design - Prepared for optimal Time-Sensitive Networking (TSN) performance
- ✓ XGS-PON OLT Conversion - Transform SFP28 ports into XGS-PON OLT ports

Key Applications:

- Mobile backhaul
- Mobile antenna (eCPRI) aggregation
- Outdoor Ethernet aggregation
- Remote-MAC/PHY node aggregation
- B2B Ethernet services
- PON OLT conversion



- Extended reach with high-performance 100G optics uplink
- Hardened outdoor enclosure, passively cooled with no moving parts
- Extended range - no need to build or maintain repeaters

RS4060 with 6 ports

Inca IP Video Platform

Live Linear and ABR Solution

Best suited for high-density deployments, WISI's modular platform bridges the gap between legacy equipment and new video technologies, including next-gen ATSC 3.0, SRT, HEVC, ABR receive and ABR transcode applications.

Features:

- ✓ Transcode between MPEG-2, MPEG-4, and HEVC
- ✓ Receive ATSC, ASI, IP, SRT, ABR sources
- ✓ 10G SFP+ support, AC and DC power options
- ✓ Superior video quality for ABR deployments with advanced de-interlacing and uprating 60/50 fps
- ✓ Rest API for centralized management and monitoring

Key Applications:

High-density transcode

- Transcode for linear IPTV
- Transcode to multi-bitrate profiles for ABR applications
- 10-bit HDR capabilities

IP video streaming

- ATSC 1.0 or ATSC 3.0 with Widevine decryption to IP
- MPEG-DASH to transport stream with Verimatrix or Widevine bulk decryption
- SRT send or receive
- Package streams to MPEG-DASH, HLS



— Increase visibility with VidiOS™ management tools - integrated video thumbnails, stream downloads and analytics

— Save big on power costs for high-density deployments - less than 200 W per chassis

— Profit from using a modular platform - add or change functionality at any time



Available Modules

Up to 4 modules can be used in a single Inca chassis. One module type can be installed exclusively or in combination with other modules to support different applications.



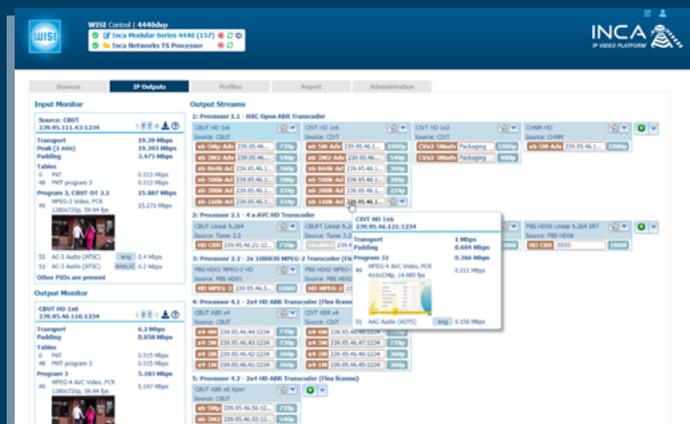
AT3 Receiver Module

- Receive ATSC 1.0 (8VSB), clear QAM and/or ATSC 3.0 sources using 4x tuners



HXC Module

- Linear or adaptive bitrate transcode between MPEG-2, MPEG-4 or HEVC



*Cut Trouble Calls by 84% with VidiOS™

Inca's advanced processing and monitoring engine provides unique visibility into every step of the video processing chain.

- Enables rapid configuration and deployment
- Experience deep visibility and efficient troubleshooting
- Experience effective diagnostic tools with video thumbnails, stream sample downloads, detailed stream statistics including PID and payload details, warnings and errors

* An 84% reduction of trouble calls attributed to VidiOS™ management tools was recently reported by a North American Tier 1 operator

Tangram High-Density Video Platform

Hospitality and Edge Solution

This modular commercial video gateway is best suited for edge network deployments, this flexible platform allows operators to customize module configuration per application and perform various functions within 1RU.

Features:

- ✓ Powerful, modular platform with options for QAM, IP, SRT, ASI, and encryption/decryption
- ✓ Low power consumption, AC or DC power options
- ✓ Receive and bulk decrypt ABR streams, and output as IP or QAM
- ✓ Encode from HDMI or SDI
- ✓ Rest API for centralized management and monitoring
- ✓ Reduce bandwidth with Active Channel Streaming (ACS)

Key Applications:

Feed hospitality networks

- MPEG-DASH to IP or QAM outputs with Widevine bulk decryption
- SRT or IP to QAM/analog
- BISS, BISS-CA, Pro:Idiom encryption
- Replace CableCard with IP delivery
- Insert local content from HDMI and SDI sources

Gateway and edge applications

- Bulk decrypt BISS, BISS-CA, Verimatrix, Widevine
- Receive or send SRT
- Insert EPG (Electronic Program Guide) with Gracenote data



Save on rack space, power, and cooling costs for high-density deployments

Combine modules in a 1RU chassis to meet specific application needs

Bridge between digital and RF - migrate to IP distribution and connect to existing edge networks



Available Modules

Up to 6 modules can be used in a single Tangram chassis. One module type can be installed exclusively or in combination with other modules or to support different applications.



GT36
HD/SDI Encoder

Up to 4x IP outputs from
HD/SD-SDI or A/V
analog inputs



GT35
HDMI Encoder

Up to 4x IP outputs
from HDMI inputs



GT23
IP to QAM

Up to 12 QAM channels
on 2 RF outputs



GT32
ASI to IP

4x ASI input or output,
demux & passthrough



GT41
Video processor

Mux/demux, encrypt/decrypt
(Verimatrix, Pro:Idiom, Samsung
LYNK, BISS), RTP+FEC



GT2000 Universal IP to Edge Module Next-Gen Processing Module

- The ultimate solution for high-density video processing
- Deploy one module for several applications
- Change functionality with an easy software upgrade
- Available for IP/SRT to Analog or QAM application
- Receive and bulk decrypt ABR streams, and output transport stream as IP or QAM

Blueline Edge Series

Universal Video Appliance

Purpose-built for small venues, this ABR video gateway converts ABR streams into QAM or IP multicast for perfectly synced playback across every screen.

Key Applications:

- Deliver synced video to sports bars, restaurants, and gyms
- Simplify operations in stadiums, arenas, and corporate offices
- Support hospitality networks using existing coax or IP infrastructure
- Enable centralized control for multi-screen environments
- Replace legacy set-top box workflows with streamlined ABR delivery

Features:

- ✓ SRT/IP/ABR inputs and IP/QAM/Analog outputs
- ✓ Ensures synchronized playback across all screens for Multi-TV deployments
- ✓ Dual GigE ports for separate streaming and management
- ✓ Easy control via web-based interface
- ✓ Compact 1RU chassis for rack or wall mount
- ✓ Reduces bandwidth with Active Channel Streaming (ACS)
- ✓ Integrated multiplexer for stream adaptation



- Reduces bandwidth by only ingesting watched content
- Perfectly synced playback across all screens
- Works with existing coax or IP networks

Blueline Edge Series IP to 12 QAM Edge Modulator

An ideal solution for smaller networks and low-density applications, to connect between analog to digital or RF to IP environments.

Key Applications:

- Build new revenue by serving smaller businesses with low-density requirements
- Simplify delivery for hospitality sites like motels, boutique hotels, and sports bars
- Connect to commercial residential properties, academic and medical facilities
- Integrate into existing infrastructure with a power efficient, 1RU chassis

Features:

- ✓ Support IP inputs and up to 12 QAM outputs
- ✓ Includes multiplexer and PSI/SI processing
- ✓ Ingest RTP or IP with Forward Error Correction (FEC)
- ✓ Easy control and management via web-based interface
- ✓ Includes static channel list with optional software license



- Excellent price per QAM channel
- 1RU chassis optimized for B2B
- Less than 20 W power consumption



WISI Support Team

Rest Easy with Reliable 24/7 Operation

Support Team Contract Includes:

- ✓ Responsive 24/7 support services
- ✓ Email and phone support
- ✓ Initial guided tour of the user interface
- ✓ Diagnostic file analysis
- ✓ Application review and troubleshooting
- ✓ Direct access to developers when needed
- ✓ Customer portal access - WISI Connect

Experience Support Backed by Industry Veterans

The WISI America support team consists of industry experts adept at managing the complexities of telecommunication networks. With decades of field experience and SCTE-ISBE certification as Digital Video Engineering Professionals (DVEP), our team excels in addressing configuration and troubleshooting questions across diverse applications.

WISI is committed to the rapid resolution of all technical issues. Our support team operates in-house, collaborating closely with product, QA, and development teams to diagnose and resolve customer issues. Customers benefit from reliable and efficient operations thanks to our responsive, world-class team with extensive industry, product, and technical knowledge.



We were very impressed with the level of flexibility within the WISI Group, especially for being a large company. They were able to react quickly to our needs and it was one of the deciding factors in choosing WISI. The support and implementation team at WISI is very responsive. They were a bright spot while working on this big project.”

- Dennis Krumbliis
Video Engineering Supervisor
GVTC



Our sales and product teams are available for project discussions and online demos.

Visit us at wisigroup.com or contact us at sales@wisiamerica.com

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