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* The Gateway 4 codec supports 4 channels only and is not upgradable to support more channels.

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New tech blooms across radio



Paul McLane
Editor in Chief

The Radio World team is pleased to bring you the 2023 Spring Product Preview ebook. Not all readers live in the Northern Hemisphere, of course; but whether you're north or south of the equator, this time of year tends to produce a lot of technology introductions or first shipments of products that were previewed in the past half-year. And many companies from around the world will use the April NAB Show to premiere their stuff.

Enclosed you'll find news from more than 40 broadcast technology companies. The ongoing transition of the industry to software-based tools and virtualization is evident, but there's also still plenty of hardware, knobs and metal boxes to get your hands on. So whether you're building air chains in the cloud or still have your gear securely screwed into real-world racks, we hope this ebook will be useful.

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Summit Technology Group • Telos Alliance • Tieline • WorldCast Systems • Xperi

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MARCH 2023

A New High-End Processor From Orban

Orban will begin shipping its new generation of audio processors in June, with the Optimod 5950 first off the assembly line.



"It has a compact 1 RU design and offers a powerful package of features including Orban's breakthrough MX Peak Limiter technology," the company says.

"Equipped with a high-resolution touch display and the ability to be controlled remotely via any HTML5 web browser, the Optimod 5950 combines user-friendly operation with the highest quality audio processing for FM and DAB+/HD Radio broadcasts."

Analog, AES3, composite and digital MPX as well as AES67/SMPTE-ST2110 inputs and outputs allow easy integration into any studio/transmitter environment. The optional Orban μ MPX interface can be used for a cost-effective transmission of digital MPX signals over IP.

Audio processing features such as the Subharmonic Synthesizer for a punchy bass and Multipath Mitigator for stereo-to-mono downmix are included in the 5950. Its RDS/RBDS generator supports dynamic PS scrolling and IP access.

Monitored dual power supplies and defeatable I/O safety bypass relays provide assurance of reliable operation.

Orban will have the Optimod 5950 at the NAB Show, Booth W2543.

Info: www.orban.com/overview-optimod-5950-audio-processor

ATMOS Provides AI-Based Weather Reporting

Summit Technology Group's ATMOS Weather Reporting provides comprehensive routine and emergency weather information and EAS replacement, enhanced by natural text-to-speech synthesis and artificial intelligence.

You can "set the script," determining the scripts and phrases used to deliver a dynamic forecast under a variety of weather conditions. The service will also maintain a library of commercial sponsors and messages, and reconcile reports and mentions back to billing. ATMOS also will automatically ingest weather report audio and text into your automation, playout, CG or newsroom system.

ATMOS uses advanced neural networks to synthesize natural and professional sounding reports. You can further personalize the scripts with pseudo-random or programmatic script styles and ATMOS Markup Language.

Audio samples are provided on the company website. The service integrates with most automation, newsroom and media asset manager systems including NewsBoss, ENCO, RCS, WideOrbit, Dalet, Rivendell, DJB and Broadcast Tools. It also integrates smoothly with IPAWS.

Info: www.summittechgroup.com/atmos



A New Up/Down Timer From RAM Systems

RAM Systems has introduced the TMR-5, an up/down timer available in desk or rack-mount configurations.

"This series of digital timers are also master timers, which will drive multiple wall, rack and desk mount displays," it states.

The TMR-5 series of timers offer bright, flicker-free 0.8-inch digital displays. Up to 50 remote timer displays can be driven up to 4,000 feet.

The time code output is a variant of DQS transmitted using balanced low-Z RS-422 signal levels. Timing resolution is 1/10th of a second with timing ranges of 10 hours in up or down mode. If a positive time is loaded to memory and the timer is set for down mode, when reaching "0" it will continue running indicating negative numbers.

A warning button allows colons on the display to flash for upcoming events.

The dimensions of the desk version are 6.35 inches wide by 2.3 inches high and 3.8 inches deep. Power source is 9 VDC.

Info: www.ram68.com/



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GatesAir Adds to Flexiva GX FM Transmitter Series



GatesAir is expanding its Flexiva GX FM transmitter line with two additional models at lower power levels.

The line currently consists of 5 kW and 10 kW versions; now GatesAir is

adding 50-watt and 1 kW models.

"Broadcasters seeking to refresh existing analog FM infrastructure for large regional and national networks represent a key customer base," it said.

The company highlights its power-to-size ratio. "Using the latest LDMOS technology, GatesAir has packed exceptional power density into a compact 5 RU chassis, providing broadcasters with powerful solutions that deliver overall efficiency ratings up to 76 percent."

It says Flexiva GX's design is enhanced by third-generation PowerSmart high-efficiency transmitter architecture. Flexiva GX transmitters support N+1 configurations, enabling large national network operators to build flexible and consolidated transmission sites.

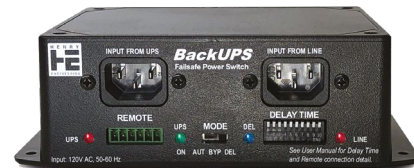
The transmitters provide auto-switching inputs, with dual AES (including AES192), dual composite and analog left/right audio inputs.

Options include GPS receiver to support SFN functionality, and GatesAir's Intraplex IP Link 100e module. The latter integrates within Flexiva GX transmitters, enabling direct receipt of contributed FM content instead of requiring an external codec. NAB Show Booth W2833.

Info: www.gatesair.com/products/transmit-radio/fm-transmitters

Henry Gets Your BackUPS

BackUPS is a power controller from Henry Engineering, for ensuring reliable AC power to critical equipment that is powered with an uninterruptible power supply.



It constantly monitors the output of the UPS and automatically bypasses the supply if its output fails or becomes unstable. This keeps the load powered and allows the UPS to be disconnected safely for battery replacement or other maintenance.

BackUPS includes a Restart-Delay Timer that ensures the UPS output is stable before the UPS is switched back online. Whenever the UPS output comes on, the system monitors its output for a preset time. The UPS will be switched online only if the UPS output is stable during this delay interval. The delay time can be set from 10 seconds to 16 minutes, and can be defeated if it is not needed.

The BackUPS is automatic once installed. The Mode switch can select Manual UPS Bypass mode, or Automatic operation with or without the Restart-Delay feature. It can also be remotely monitored and controlled. The Remote Bypass Input allows the unit to "force bypass" the UPS via GPI control, useful for bypassing a troublesome UPS at a remote transmitter site.

BackUPS can also be used as a "remote reboot" device, to reset and reboot equipment via off/on power cycling. It can supply up to 15 amps of AC current to the load. NAB Booth C2213 (Broadcasters General Store).

Info: <https://henryeng.com/backups/>

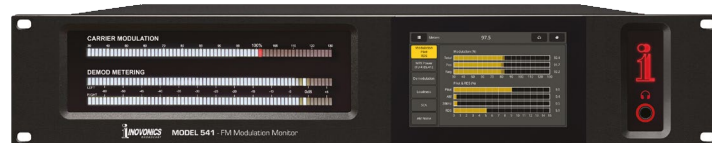
Inovonics Unveils 541 FM Mod Monitor

A fourth-generation modulation monitor for FM stations is the latest product from Inovonics. The company will be at the NAB Show in Booth W2535.

"The new 541 incorporates all the necessary features for station setup, regulatory compliance and remote monitoring. The 5-inch colorful LCD Touch Screen displays all the essential modulation data in a graphic format on the front panel, or can be viewed remotely on any Web-enabled device."

The model 541 delivers information about the transmitted signal in terms of the RF carrier and all subcarriers, the audio component defining the technical quality that the listener hears, and decoding of RDS data and SCA audio.

"The digital architecture of the 541 combines detailed DSP signal analysis with a menu-driven touchscreen display, plus Web server-



based total access for remote operation, including measurements, graphical data and direct Web-browser audio monitoring of the off-air program."

The company quotes President/CEO Ben Barber saying that the product reflects Inovonics' experience in developing its 551 and 552 models. "With the dynamic web interface that can be remotely accessed from any smart phone, tablet or PC, and its SNMP capabilities, the 541 takes innovation to a new level."

Info: www.inovonicsbroadcast.com/product/family/monitors

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DAD, WebDAD 3.0 Deliver Powerful Radio Automation

ENCO says its DAD radio automation system is trusted by thousands of broadcasters, and that its WebDAD version has recently been improved.

“DAD’s flexible, customizable and interoperable interface supports a variety of workflows. Users can share content across multiple stations with localized playlists for each market, insert different content and ads for each OTA and webstream feed, and easily break away for local commercials, liners and jingles, then rejoin seamlessly.”

The company says the scalable design makes DAD appropriate for installations of a single workstation or a hundred.

At the NAB Show, ENCO also will demonstrate WebDAD 3.0, which is available now. It lets users remotely manage and control studio-based ENCO DAD radio automation systems from anywhere with an internet connection.

“Offering remote access for everything from uploading content and modifying playlists to voice tracking, WebDAD enables flexible remote working models for broadcasters by letting users efficiently manage their on-air operations even when personnel isn’t physically in the station’s facilities.”

WebDAD also serves as the user interface for ENCO’s cloud-based DAD Disaster Recovery solution, which provides a continually synchronized clone of the broadcaster’s on-premises DAD



deployment.

ENCO says WebDAD’s architecture has been revamped to offer an improved user experience, including layout changes that enable intuitive operation and streamline workflows for key features.

“Additionally, WebDAD 3.0 bolsters security with more granular control over user permissions, such as the ability to restrict access to specified libraries, functions and systems. Added support for third-party accessibility assistance tools improves usability for people with impairments or disabilities.”

Other updates include a simplified deployment model for easier installation and upgrades, as well as enhanced cross-browser support.

Info: www.enco.com

8

Wheatstone Adds “Whole FM MPX Enchilada” to Cloud Software

Wheatstone says its Layers Software Suite with SystemLink allows you to add mixing, FM/HD processing and streaming instances to any server in your rack room or off-site at AWS or other cloud data centers.

“Plus, now with SystemLink,” the company says, “you can transport linear audio and the whole MPX enchilada, including FM/HD alignment, across any high-speed link.”

Wheatstone’s Layers Software Suite includes Layers Mix, Layers FM and Layers Stream modules for extending studio failover redundancy across multiple AWS or Google cloud data centers or for replacing racks of processors, PCs and mix engines, in the case of an on-prem server.

Layers Mix has a full-featured mix engine and Glass virtual mixers for the laptop, tablet or touchscreen with routing, logic,

automixing and native IP audio integration with major automation systems.

Layers Stream has stream provisioning, metadata support and audio processing designed to optimize the performance of audio codecs. Layers Stream is compatible with CDN and streaming platforms.

Layers FM has multiband audio processing, PPM watermarking, RDS capabilities and new SystemLink technology for getting high-quality audio from data centers to the RF transmission site. Processing at 24-bit resolution, SystemLink now makes it possible to transport linear audio and “the whole MPX enchilada,” including FM/HD alignment, across any high-speed link.

Layers is part of the WheatNet-IP audio network, an AoIP ecosystem of hundreds



of interconnected devices and elements for audio routing, controlling and automating the modern broadcast studio. Wheatstone will be demonstrating Layers at NAB Show Booth W3000.

Info: www.wheatstone.com/layers

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Lawo Power Core rev.3 Adds Flexibility

Power Core rev.3 is a new version of Lawo's software-defined DSP mixing engine and I/O gateway for AoIP infrastructures.

"In only 1RU, Power Core rev.3 provides hundreds of I/O channels via standard Ethernet and MAD1 ports, plus eight rear-panel I/O expansion slots," Lawo says.

"It also hosts a full dynamics suite with EQ, compressor, gate, expander, de-esser, limiter and delay. Thanks to multiple upgradable license options and industry-standard Ravenna/AES67 networking, Power Core can be tailored to a variety of operational needs and price points to serve as a network-edge I/O device, a baseband-to-AoIP gateway, a mixing engine for consoles as large as 60 faders (120 using dual layers), or anything

in between."

In Power Core rev.3, the number of Ravenna/AES67 ports is increased from two to four ports (with SFP). You can use the additional capacity for I/O expansion (up to 512 AoIP channels), LAN segment separations or LAN-WAN gateway applications.

There's a new GPIO expansion card with eight GPI plus eight GPO per card, joining a family of analog, mic, AES2, MAD1 and Dante I/O cards.

A new Compact license is optimized for deployment of mixing consoles with two to 16 faders.

New DSP features include low-latency Loudness Input Leveler that matches

audio to pre-set loudness target, self-keyed sidechain filter for dynamics and high-granularity EQ.

BMCA-PTP grandmaster failover capability is provided for redundant setups, and a front-panel USB port supports software maintenance.

Power Core rev. 3 also supports Lawo's new eight-slot Audio I/O Extender (AIOX) device. You can connect up to 20 AIOX devices with GPIO, analog, mic and AES3 cards to one Power Core to expand system I/O count by up to 1,280 additional connections.

The company will be in Booth C4111 of the NAB Show.

Info: www.lawo.com



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Tieline Introduces New MPX Codecs

Tieline will unveil two codecs at the NAB Show. The MPX I and MPX II offer composite FM multiplex solutions for real-time network distribution of FM-MPX or MicroMPX (µMPX) signals to transmitter sites, the company said.

It noted that sending "transmission-ready" FM composite signals from the studio allows stations to keep audio processing and RDS gear at the studio, which it says can save money and operating costs. "Composite MPX over IP signals can be easily replicated and

distributed using multicast and multi-unicast technologies and take advantage of rock solid redundancy features like redundant streaming, RIST, FEC and automated SD card file failover.

"The MPX I is ideal for transmitting a composite STL signal from a single station with return monitoring, whereas the Tieline MPX II can transport two discrete composite FM-MPX signals from the studio to transmitters with return monitoring."

The products will ship later this year. Both support analog MPX on BNC, MPX over AES192, and multipoint signal distribution, to deliver composite encoder and decoder solutions for various applications.

"The MPX I and MPX II support sending the full uncompressed FM signal, or high-quality compressed µMPX at much lower bit rates. An optional satellite tuner card with MPEG-TS and MPE support can receive DVB-S or DVB-S2 signals."

The announcement was made by VP Sales APAC & EMEA Charlie Gawley. "By supporting both analog and digital composite MPX signals, broadcasters can transition from analog to digital exciters over time and maximize the value of their MPX investment," he said. NAB Show Booth C3008.

Info: <http://tieline.com>





FM & DAB+/HD Radio Audio Processor

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AES67/SMPTE ST-2110 - μ MPX Interface - HTML5 Web Control -

Watermarking Encoders - RDS Encoder



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MARC Boards Get Bluetooth Module

Arrakis was the first to introduce a Bluetooth feature, doing so in its ARC Series broadcast radio consoles. Now it offers one for its MARC series.

The MARC is modular, allowing a user to configure the board as needed. The six available modules are Microphone, with A/B inputs; Stereo Line, with A/B inputs; USB, to connect to a Windows or Mac PC; Phone, of which up to two can be used; Studio Monitor, to talk between the control room and another studio; and the new Bluetooth module.

Bluetooth-enabled consoles can be paired to any Bluetooth-enabled device such as a cell phone, audio player or recorder editor, Arrakis says. "Just pair your cell phone to the console, and answer your incoming calls with the built-in 'Call' button on the board. You may then end the call with the 'Drop' button, just like a standard Bluetooth phone hybrid. The caller receives the console bus mix ('minus' the caller audio) so there is no feedback."

You can take calls on the audition bus,



where you can record the call for later playback, or send it to the program out to play over the air.

The module can be retrofitted into

existing boards as well. Arrakis will be in NAB Booth W1742.

Info: <https://arrakis-systems.com/arrakis--consoles-division.html>

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Axia Altus Is a Software-Based Mixing Console

Axia Altus is a new software-based audio mixing console from Telos Alliance.

"What happens when you move the console out of the studio and into a virtualized environment? A world of new possibilities emerges," the company states.

It says Altus brings the power and features of a traditional console to desktop and laptop computers, tablets and smartphones running modern web browsers.

"Enjoy full-function mixing — including eight virtual auxiliary mixers and integration with Telos VX broadcast phone systems — from your distributed and remote workforce, allowing collaboration on recorded programs and live broadcasts."

It can also be used to deploy a temporary studio anywhere, create a low-cost disaster recovery center, set up a remote broadcast or reimagine a main studio build-out.

Altus is delivered as a Docker container, a type of software



deployment used in IT environments that provides flexibility on- or off-premises using non-proprietary, commercial off-the-shelf hardware.

It is sold as a buyout or via subscription. New users not yet familiar with Docker containers are guided by a Telos field application engineer. At the NAB Show find Telos Alliance at Booth W3766.

Info: <https://TelosAlliance.com/Altus>

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to see more :



 **WORLDCAST**
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Ecreso AiO Line Expands

WorldCast Systems has extended its Ecreso AiO portfolio to include the Ecreso FM 100W and Ecreso FM 300W low-power transmitters. It will be in Booth W2321 at the NAB Show.

"The new AiO series is designed to meet the needs of modern broadcasters who must align rising costs while adapting to increasingly complex infrastructures with non-extensible resources," the company states.

The 100W and 300W AiO series are compact 2U FM transmitters that use a software-oriented design and are highlighted for their total cost of ownership and audio quality.

"This innovative design overcomes the limitations of legacy technologies, where the virtualization of FM transmitters and antennas is not possible. Instead, AiO Series products enable users to replace outdated hardware at transmission sites via



software integration of Audemat RDS Encoder, multiband processing and APT IP Decoder."

Features include a new RF planar design and hot-swappable power supply and fan.

Info: www.worldcastsystems.com

PowerClamp Protects Solid-State Transmitters

Sine Control's new, lower-cost PowerClamp HP200-1-TX is a high-performance surge protective device for broadcast transmitter sites, network studio complexes and other mission-critical installations.

The HP200-1-TX is suitable for solid-state transmitters that use switching power supplies, which are especially vulnerable to powerline disturbances.

PowerClamp surge protective devices use a hybrid of technologies to greatly reduce the amplitude of AC spikes and surges that often damage these switching supplies. The company says the unit's "clamping level" performance is exceptional, reducing surges and spikes to within just a few volts of the sinewave peak. The new PowerClamp HP200-1-TX is rated at 200,000 surge-amps per phase.

The HP200-1-TX is for single/split phase 120/240 volt power; other Series 200 models are available for three-phase wye electrical service from 120 to 480 volts. LEDs monitor the unit's fuses, with Remote Status Monitoring available optionally. Load matching is not required. There is no insertion loss or risk of power cutoff. In the unlikely event of an overload, the PowerClamp's internal fuse will open, but power to the load (the transmitter) will remain on.

Series 200 SPDs have more surge-amp capacity than previous PowerClamp units, yet Sine Control says they cost less due to newer production technology. Units generally are in stock. NAB Booth C2213 (Broadcasters General Store).

Info: <https://henryeng.com/powerclamp/>



2wcom: Powered by AWS

2wcom announced that MoIN, its virtualized audio over IP codec, is now powered by Amazon Web Services and can be shared with customers that register for [early access](#).

"The MoIN will be publicly available on AWS Marketplace at the beginning of the second quarter of 2023," the company said. "It will come with on-demand hourly billing which enables use-cases that demand maximum flexibility."

2wcom says that in contrast to other solutions available on AWS, its solution provides an audio-specific feature set that most video transcoding solutions cannot. "Whether it is Icecast, HLS streaming or DVB Multiplexing and transcoding, the MoIN is the right solution and fits very well into your broadcasting environment, may it be audio contribution, distribution or web radio."

The same "try & buy" options that apply to on-premise installations apply to the AWS Marketplace; the MoIN will be eligible for the AWS Free Tier. At NAB the company will be in Booth W3174 (ALC Networkx).

Info: www.2wcom.com





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Xperi High DTS AutoStage Broadcaster Portal

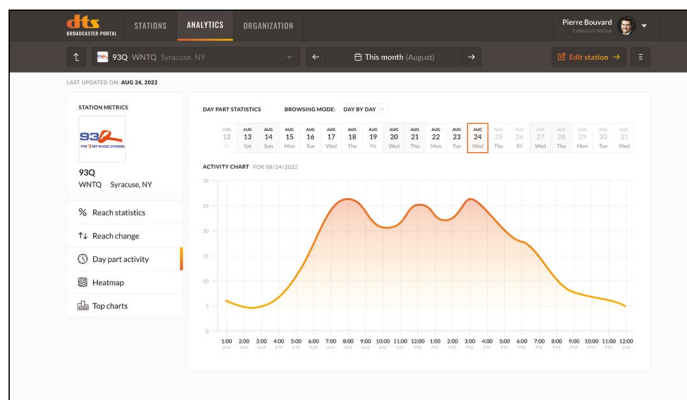
The new Broadcaster Portal for users of DTS AutoStage is intended to provide valuable insights regarding broadcast radio listening in connected cars.

The basic usage data is available at no cost to broadcasters that integrate with DTS AutoStage system and deliver their live “now playing” data to Xperi.

The analytics follow global and local security and privacy regulations such as General Data Protection Regulation (GDPR) and California Consumer Privacy Act (CCPA).

The Broadcaster Portal is an access point for broadcasters to register with the service, maintain their content and information and access the analytics and insights that DTS AutoStage will deliver.

The dashboard tools provide data coming back from vehicles equipped with DTS AutoStage.



They include Station List, an overview of stations belonging to each organization, including station logos and other static station information. It gives Station Reach, the percentage of vehicles in the system that have listened to a station in the past seven days, relative to all stations within that organization.

An Individual Station View provides more info about a specific station, editable by the

broadcaster and reflecting what a consumer will see in their vehicle.

The Day Part View (shown) reflects trends in the number of people listening from vehicles. Top Charts show the songs and programs listened to the most on a station and how they change from week to week; PDs can see what songs are trending or reaching the largest audience.

And a HeatMap feature shows where listeners are and the density of cars in those areas.

In all cases the broadcaster will only see data for stations that they own; they will not see competitors' data. And Xperi says privacy is a major focus, so it will base its data on large sample sizes of different vehicles using its technology; there will be no personally identifiable information such as age, gender or race. NAB Booth W3243.

Info: <https://dts.com/autostage/>

Nautel Now Shipping First of the VX Series

The first of the new VX Series FM transmitters from Nautel are now rolling off the assembly line. The lineup includes models in 11 power outputs from 150 W to 6 kW. Models up to 2 kW are shipping, while higher-power ones will follow this year.

Building on the VS Series, Nautel says, the analog VX Series offers advanced control, instrumentation and features in a compact footprint. “The architecture of the new series incorporates state-of-the-art DSP, power supply and FET technology to ensure robust performance, serviceability and value.”

The VX Series has an updated RF power chain using a high-voltage FET that Nautel says provides superior analog FM performance. Its power chain has been mated with a dual-core DSP

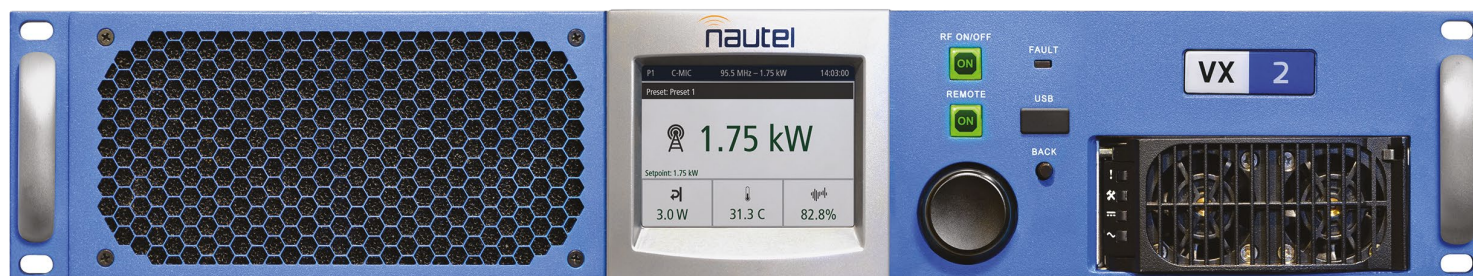
for clean signal generation. “Nautel also adopted titanium-grade industrial power supplies, which are hot-swappable with easy front-panel access.”

Control is accomplished via the new HTML5 Advanced User Interface, a redesign of its popular AUI.

Nautel also highlights the VX Series for high AC-RF efficiency; depths of only 20 to 25 inches; a large color display; easy access to FETs, fans and filters; instrumentation, RDS, SNMP and presets typical of higher-power transmitters; a four-year warranty; and optional Orban Inside processing.

The company will be at the NAB Show in Booth W2843.

Info: www.nautel.com/products/fm-transmitters/vx-series/

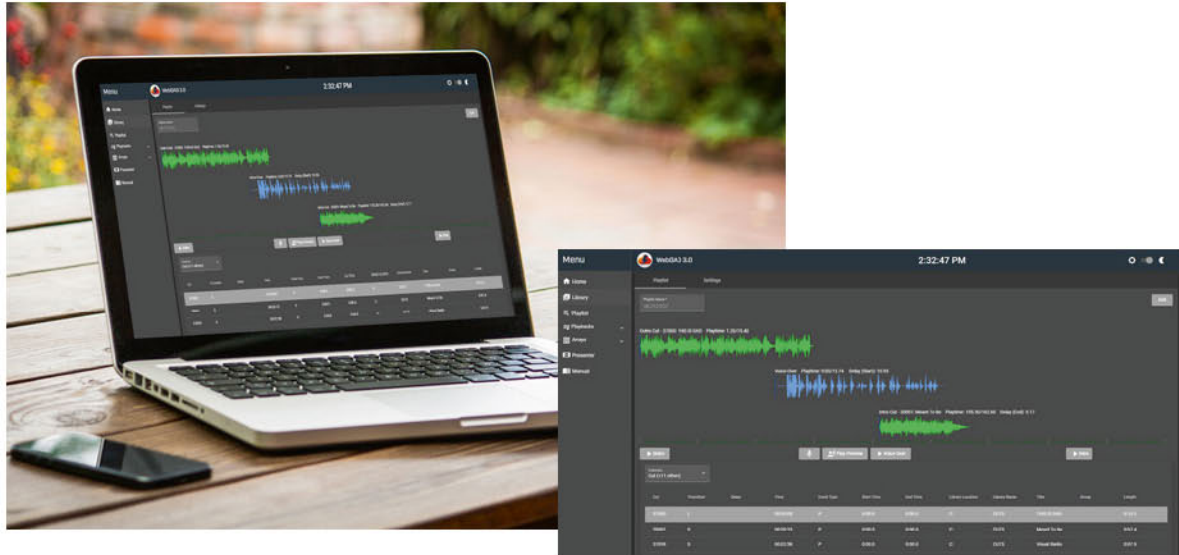




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See it in action at NAB Booth W-1743!

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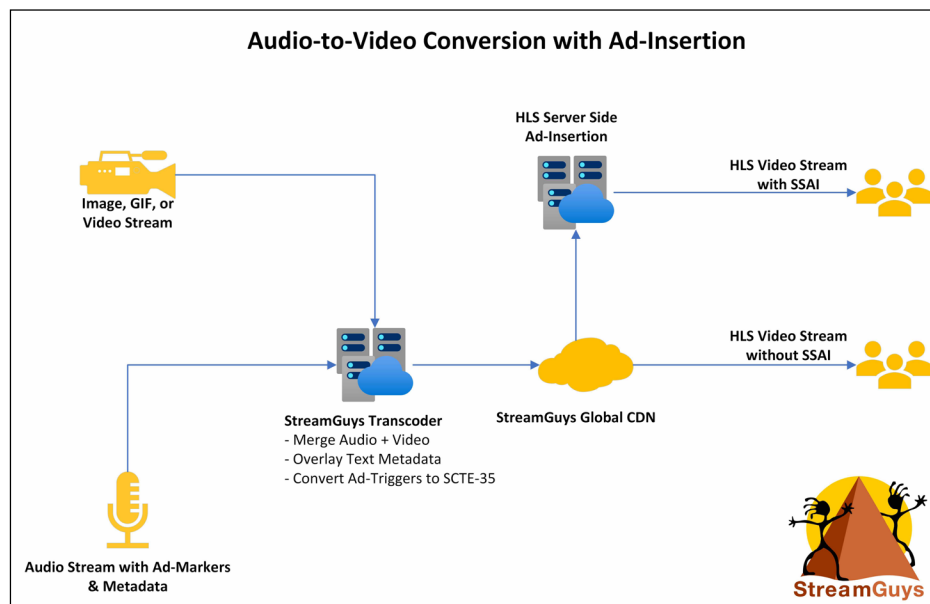
StreamGuys Offers SaaS Workflow Conversions

StreamGuys has introduced workflow management and ad insertion capabilities to help radio broadcasters expand into visual radio and other video-centric workflows. It also offers conversion tools that help customers replicate and monetize audio streams from existing video streams.

The latest workflow conversion tools are an extension of StreamGuys' SaaS suite. "One option is to automatically identify and turn SCTE-35 video ad insertion markers to ID3 metadata markers used in some audio-only insertion tools," the company says.

"That offers video producers and broadcasters a cost-effective way to deliver audio streams with dynamic ad insertions. The same workflow management technology can be used to unleash traditional radio streams to serve more video-centric workflows, and help radio broadcasters expand their audiences."

StreamGuys' new video and audio conversion capabilities evolve from the SGrecast podcast management platform, which features tools to repurpose live streams as podcasts or rebroadcasts. The expanded SaaS toolset will automatically convert and republish live content, expanding their distribution and monetization footprint to reach new



audiences.

"While SGrecast is focused on helping the radio broadcaster repurpose live content for other audio segments or streams, StreamGuys' new conversion tools are truly media-agnostic. This creates an entry point into OTT and FAST (free ad supported television) channel services for radio broadcasters looking to publish their streams beyond audio aggregation platforms."

To make it work, radio broadcasters or video-centric customers such as OTT services provide StreamGuys with a public or third-party source stream; the company converts and outputs the stream in the desired video and audio formats, which are then maintained through its 24/7 support services. At NAB the company will be in the ENCO booth, W1743.

Info: www.streamguys.com/

BE Highlights STX FM Radio Transmitters

Broadcast Electronics says its FM transmitters offer power ranging from 50 watts to 20 kW.

"The STX line features high energy efficiency, up to 75%, lowering your operating costs and putting more money in your pocket," the manufacturer states.

"The award-winning direct-to-channel exciter provides superior

audio quality with integrated AES192 digital composite support, built-in SFN operation, standard RDS (static or dynamic) and innovative auto input switchover to ensure you are always on the air."

Each STX transmitter comes with "Flash-free" HTML GUI and extensive SNMP interface to provide global control and monitoring from anywhere via a computer, tablet or phone.

BE says the design is compact but serviceable, with hot-pluggable power supplies and in many cases RF modules to keep you running at the highest possible power and simplify maintenance. The transmitters support later transition to HD Radio or DRM on your time frame via simple upgrade. Parent company Elenos Group will be in Booth W3330 at NAB.

Info: www.bdcast.com/products/radio-transmitters/



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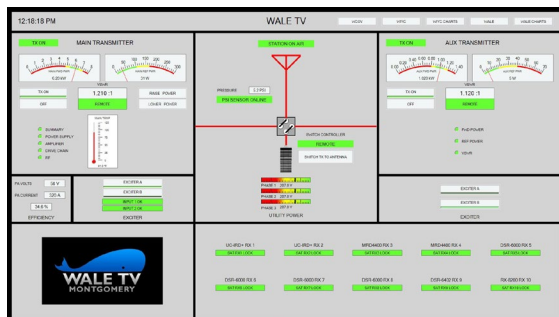
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Woods Communications Puts Burk's ARC NOW to Work



Burk Technology says its ARC NOW makes installing a new remote control system quick and easy, saving time and money.

"Burk's product experts will configure your ARC Plus or ARC Solo system for you, complete with monitoring and control points, automated functions using Jet Active Flowcharts, email and text alarm notification lists, periodic log

capture, report distribution and a comprehensive AutoPilot custom user interface."

Drew Woods, VP of operations at Woods Communications Corp., recently installed ARC NOW for remote control systems at Alabama TV stations WCOV, WIYC and WALE. The implementation for WALE is shown.

ARC NOW services include configuration of ARC Plus and ARC Solo remote control units, creation of AutoPilot Custom Views and system automation setup using Jet Active Flowcharts. Burk's NAB Show booth is W2753.

Info: www.burk.com

Prioritized Wireless Service Is "a Gamesaver" for Sports

MaxxKonnnect's Prioritized Wireless service is high-speed LTE internet service designed for broadcast applications. It is suitable for sports, field ENG and live reporting, including big events like election night or inaugurations; it also is used in remote transmitter control applications. Its NAB Show booth will be W2849.

BYU Broadcasting at Brigham Young University is using the service. Senior Broadcast Engineer Barry Squires said, "A lot of services will provide signal during initial before-game tests. In the real world, after 65,000+ Cougar fans show up with their smartphones, that bandwidth is chewed up real fast. Broadcasts can drop, or not connect at all." With MaxxKonnnect Wireless, a session is prioritized above the clutter. If the team has secure wired internet, they may use that as the primary and then set up MaxxKonnnect Wireless for seamless failover backup.

"Typically, on the road when we're 'given' internet access, we're not always sure of the reliability, especially when it's Wi-Fi. MaxxKonnnect Prioritized Wireless becomes a gamesaver. You could use most popular codecs or even a cellular router/modem to connect with your equipment, such as laptops; but we put the MaxxKonnnect Wireless Sim cards right in our Tieline ViA cellular modem. We just initialize the cellular connection on the ViA, which provides solid reliable internet connectivity."

Shown is BYU Sports Radio announcer Greg Wrubell using Tieline's ViA remote codec with MaxxKonnnect Prioritized Wireless Service.

Info: <https://maxxkonnnect.com/>

20

Rev96 Coming in June for Sage ENDECs

Sage Alerting Systems has announced a pending major software revision, Rev96, for its flagship product, the Sage Digital ENDEC.

Slated for release in late June, the update focuses on two main areas.

The first, according to the company, is support for FCC rules issued in November 2022 with an effective date of December 12, 2023. Those rules mandate that whenever a "legacy" over-the-air EAS message is received, the EAS device must search for a matching Common Alerting Protocol version and air it instead.

A new method of constructing text for the National Periodic Test is also required. Both rules are intended to improve the overall quality of warning messages to the public.

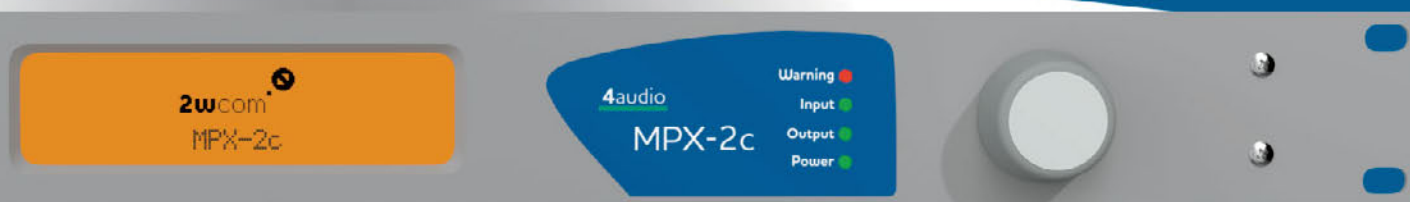
The second focus area is to expand the use of email to deliver logs, weekly summaries and conformance reports. While this information is already available on the ENDEC, Sage says "pushing all of the information required for FCC logs will reduce the need for direct access to the ENDEC from the internet."

Sage also plans to add several new ease-of-use features and expand its access audit logging. The list price of this software update is \$159.

Last year Sage released its Alert Portal software. Designed for low-power stations and public safety organizations that want a direct over-the-air alert capability as a backup to CAP, Sage Alert Portal offers easy-to-use, browser-based origination capability.

Info: www.sagealertingsystems.com





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AEQ Launches Venus 4 IP Audio Codec

AEQ plans to present the new Phoenix Venus 4 audio codec in Booth C1806 at the 2023 NAB Show.

This dual stationary codec for point-to-point links provides IP connectivity and two simultaneous bidirectional stereo transmissions with different formats and

qualities. It features SIP protocol and EBU N/ACIP, as well as Opus algorithms with configuration support and remote control tools.

Venus 4 is available in two hardware versions: one with a

front-panel control, and a more basic version with network and communications status indicators.

Both versions have balanced analog inputs and outputs on XLR connectors and dedicated AES/EBU digital I/O connectors, triple network port, dual RS-232 auxiliary data link and redundant power supply. Versions are available with 48 volt DC power supplies and optional Dante/AES 67 IP local audio inputs and outputs.

The codec can be controlled via the Phoenix Control application. There is a user-friendly graphical window for configuration and another for operation that allows AEQ to work with it remotely, choosing encoding modes, connection modes and establishing or terminating calls.

Both the configuration and basic operation functions are presented in an accessible and intuitive way through the Phoenix application.

Info: <http://aeq.es/venus4>



22

Seacrest Studios Deploy AudioScience Sound Cards

AudioScience's ASI6744 is the sound card chosen to be used in Seacrest Studios in children's hospitals across the United States.

The Ryan Seacrest Foundation is a non-profit 501(c)(3) organization dedicated to inspiring youth through entertainment and education focused initiatives. It builds broadcast media centers, named Seacrest Studios, in pediatric hospitals for patients to explore the creative realms of radio, television and new media, that will aid in the healing process for children and their families during their stay.

Seacrest Studios are used to provide a variety of programming to patients in the hospitals, whether they are physically in-studio or watching through a closed-circuit network from their in-room TV screen.

"We are incredibly grateful to our technical partners, like AudioScience," said Meredith Seacrest Leach, executive director and COO of the foundation. "These types of donations and partnerships allow our studios to provide high-quality functionality as well as create meaningful experiences for patients and families during their hospital stay."

The ASI6744 is a professional low-profile PCI-Express sound card for use in radio broadcast

automation. It provides 12 play streams that are mixed to four balanced stereo outputs and eight record streams fed from four balanced stereo inputs, featuring AudioScience's "anything to anywhere" mixing and routing. It provides both balanced analog and AES/EBU inputs and outputs. AudioScience will be at NAB in Booth W2716.

Info: www.audioscience.com



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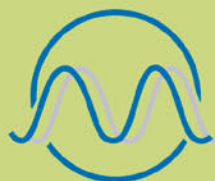


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Bext Expands XL Transmitter Line

Bext Corp. is promoting its compact XL 3000 FM Transmitter.

"Following the resounding success of its bigger brother, the XL 6000 with 6 kW of power in a very compact size, Bext added the smaller XL 3000 with 3.3 kW of power also in a very compact lightweight package, only 3 rack units tall and 18 inches deep," it states.

Like other XL Series transmitters, the XL 3000 can be powered by three- or single-phase AC power.

"Special attention was given to achieving highest possible efficiency, which will not only lower electricity bills, but by having minimal energy lost into heat it allows the transmitter to operate with low-speed fans and extends the life of the internal electronics, which are not subjected to the typical high heat produced by other less efficient brands of transmitters."

Protections against high reflected power and other excessive environmental issues are built in.

The XL 3000 has a front-panel USB connection that allows the user to view or download files including the user manual and factory final test report. This function is active even when the transmitter is powered down or not connected to a power line.

A color touch screen gives access to most functions. The transmitter can be remote controlled via web page, SNMP and old-school traditional contact connections. Options include audio over IP, dynamic RDS, SNMP2 and AES-EBU digital audio input.

Info: www.bext.com



TX2 From DHD Fits Where Space Is at a Premium

DHD.audio GmbH produces a range of broadcast-quality equipment including digital mixers, routing and talkback matrices, IP interfaces and supporting software. The products are developed and manufactured in Germany and used around the globe.

The recently introduced TX2 is a multitouch mixing console that can be placed on a desktop or attached to a worksurface via a VESA-based connector:



"We have designed the TX2 for daily operation where space is at a premium, such as news desks, co-host panels, edit suites and newsgathering vehicles," says Christoph Gottert, DHD's head of international sales.

"It can be used standalone or as an easy way to extend any DHD system. The TX2 provides access to a lot of features within a very small footprint, just 25.8 cm (about 10 inches) wide by 27 cm front to back. Its forward-sloping tabletop panel includes a 10.1-inch capacitive multitouch IPS display, two assignable potentiometers and six silent multi-color hardware buttons, allowing professional audio mixing."

Using DHD's Toolbox software, TX2 operators can configure the mixer layout that best fits their workflow. The number and size of faders can be assigned easily, buttons can be linked to the required functions and peak meters can be set to show specific channel signal levels.

The TX2 connects to a core processor or concentrator via a network cable that also carries all audio and control signals, plus power, up to 100 meters. The mixing panel can be used with DHD XC3 or XD3 cores in isolation or as part of a larger mixing system and does not require a PC.

Frequently used connectors for projects such as for telephone interviews or dubbing can be accessed on the mixer's low rear panel. With its talkback microphone and loudspeaker, the TX2 can also be used as talkback unit or monitoring controller.

Info: www.dhd-audio.com

Audio-Technica Has Pop Filter for 20 Series

The AT8175 Microphone Pop Filter is for use with Audio-Technica 20 Series mics.

"Designed for up-close use to assist in reducing excessive pressures on the microphone's element, the AT8175 is sleeker than standard pop filters and custom-designed to clip onto the front of A-T 20 Series side-address mics," A-T says. It provides added protection against plosive consonants such as "p's" and "b's" without compromise to the audio quality.

The AT8175 is compatible with AT2020, AT2020USB-X, AT2035, AT2050 and AT2020USB+ models. It measures 2.9 by 2.5 by 3.5 inches and weighs a little more than an ounce. MAP pricing is \$24. The company will be in NAB Booth C4931.

Info: www.audio-technica.com/en-us/



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Axon Series Is for Remote Telemetry

Davicom has two new, intelligent products for remote telemetry. They are autonomous devices for alarm, monitoring and automation functionalities at a price the company says is suitable for smaller applications.

"Thanks to their SNMP agents, these products are the perfect remote telemetry companions to report to any SNMP Manager, including Davicom's Cortex Series," Davicom states. "Moreover, their HTML5 web-based interfaces provide an easy-to-operate environment for visualization and configuration of the units."

The Axon Series comes in three versions.

The Axon-8A is a compact module with eight analog inputs (bipolar, differential, 12-bit resolution, 1 M Ω , ± 0.5 , ± 2.5 , ± 5 , ± 10 , ± 20 , +40 or -40 V, 4-20 mA input mode) for alarms and automation.

The Axon-8D includes eight status inputs

to read logic levels or wet/dry relay contacts, with programmable active-high or active-low settings.

And the Axon-5R comes with five form-C relays that can be used to control other on-site equipment. Relays can be pulsed or latched and also controlled by multiple sources.

Davicom's Neuro can accept a mix and match of up to five Axon I/O modules to

give a flexible RTU with up to 45 configuration possibilities.

Interconnected Axons and Neuros are capable of communicating among themselves as a network without an external server. Units can send bandwidth-efficient commands to control relays in remote Neuro/Axon-5R modules. Up to eight commands can be sent to other units and be triggered manually or automatically using the built-in ACTIONS or JOBS (also known as

State Machines).

The devices can be configured as slaves to work with a MODBUS master, such as Davicom's Cortex units. Of particular interest is the Cortex's plug-and-play implementation of the MODBUS setup process.

Axon modules will be available this summer and Neuro by October. At NAB find the company at Booth W2952.

Info: <https://davicom.com/axon-series/>



Comrex BRIC-Link III Is Now Shipping

The newest IP audio codec from Comrex is now shipping.

The company calls BRIC-Link III "a versatile work-horse codec," ready to handle anything from STLs to home studio connections. It's suitable for point-to-point uses like sports coverage, talk radio, news programming, podcast or voiceover production.

Comrex says this addition to its popular BRIC-Link line offers a more powerful processor and a redesigned front panel for ease of use. It uses CrossLock VPN technology to deliver reliable IP transmission of high-quality, low-delay audio. CrossLock is a proprietary suite of tools that ensures reliability for mission-critical broadcasts.

"With its adaptive management engine, CrossLock seamlessly manages multiple IP network connections, carefully tracking network performance and applying appropriate error correction

based on connectivity," Comrex says.

BRIC-Link III's user interface is HTML5-based for ease of configuration, managing connections and adjusting settings from a browser. With the addition of the Switchboard option, the user can connect with the click of a button and bypass common IP

networking snags like firewalls and private LANs.

BRIC-Link III is built for multiple modes of operation including BRIC Normal (UDP), RTP, TCP, IP Multicast & EBU 3326/SIP mode for compatibility.

BRIC-Link III is

capable of acting as a streaming server, delivering AAC and HE-AAC to compatible PC-based media players, or as a source feed for SHOUTcast/Icecast servers as a HTTP stream.

Comrex will be in Booth C2216 at the NAB Show.

Info: www.comrex.com/products/bric-link-iii/



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nDVR isn't just for video! SGrewind can create rewindable streams for both audio and video. We can even take a video stream and provide you with both a video and audio-only set of streams for your channel needs.



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Platform Agnostic

Whether you broadcast directly with StreamGuys, or use a different provider, StreamGuys can provide a rewindable version of your live streams delivered by our 100% uptime CDN.



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Using SGrecast, you can easily access and manage your available SGrewind streams. Whether you need to create new ones, change the rewind window for existing streams, or decommission older streams, our cloud-based SGrecast platform will let you easily self-manage and self-provision all your SGrewind streams.

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Aqua Broadcast Offers Cobalt for FM

Aqua Broadcast cites its Cobalt series FM transmitter line for superior audio quality and sound clarity thanks to Direct-to-Channel Digital technology.

Available in power levels from 10 watts to 5 kW, Cobalt products run on a customized Linux OS system. Inputs and outputs include analog, AES/EBU, digital MPX (AES192), Ethernet, USB, GPIO and GPS Sync with built-in SFN capabilities.

Intuitive joystick controls with haptic feedback and a clear RGB display help with fast setup. Features include a four-band audio processor with bass enhancement, pilot protection, wide AGC, numerous

presets, SNMP management and the ability to send emails, alerts and monitor audio remotely from a browser.

"The advanced communication package with intuitive web interface and remote control via Ethernet (https) lets you make changes or monitor the Cobalt transmitter," the company states.

Aqua highlights easy access to components, software-controlled variable fan speed, high AC efficiency and a compact design with reduced weight.

Depending on the model, Cobalt has



an optional DC input that lets you run the transmitter on a 48V DC power system and opens possibilities for off-grid power options. On 2U products a second PSU can be specified, providing two independent power inputs in parallel, for further confidence and seamless switching if a power supply were to suffer a fault. NAB Booth W2816.

Info: www.aquabroadcast.co.uk



28 DAS Prepares V5.2 Update for DASDECs

Digital Alert Systems is set to release its Version 5.2 software update for DASDEC and One-Net systems.

"The latest version features many substantial security improvements and embodies all of the current FCC mandates coming due in December," the company says. "Version 5.2 employs a 64-bit operating system to provide the latest in secure and robust operation."

The software update is free to customers who are enrolled in the company's Software Assurance Plan, have purchased a new DASDEC or took advantage of the company's "Up-Trade" program since April 2022.

The company also has been showcasing its Collector and Halo software solutions for central casting and hybrid virtualization of EAS.

The Collector can be deployed either on single-server platforms or in large cloud-based applications and can process alerts from hundreds of individual DASDEC devices, creating a single stepping-off point for other applications.

The patent-pending Halo is an enterprise-wide EAS/CAP device-management tool that can monitor the health of all connected devices, store configuration settings and quickly create customized reports with selective filtering. The company says many prominent EAS participants in the United States and Canada have deployed the Halo system. It will be in NAB Booth W2712.

Info: www.digitalalertsystems.com/

Arrakis Offers Update to DARC Virtual

Arrakis Systems says DARC Virtual 4.1 is a significant update to its software console.

"DARC Virtual has a new pricing structure," it stated. "Purchase the number of faders that you want; this gives the customer flexibility to choose the size of their console to fit their budget." There are four virtual versions ranging in price from \$500 for the four-channel to \$1,200 for the 16-channel.

Also, "You can now dynamically select your source inputs. You're able to utilize up to 64 source inputs, and switch between any of them on the fly. You can also create user profiles that have different source inputs assigned, which gives the user a quick and efficient way for switching between sources."

DARC Virtual works with the Dante AoIP protocol but will now work with any ASIO USB soundcard device.

"For example, DARC Virtual will now work with devices such as the Focusrite Scarlett, Behringer UMC or the Tascam USB audio interfaces. This will be great for ultra-affordable software console solutions."

DARC Virtual 4.1 also has added six mix minus busses, for a total of eight. At the NAB Show Arrakis will be in Booth W1742.

Info: <https://arrakis-systems.com/arrakis---darc-virtual-console.html>



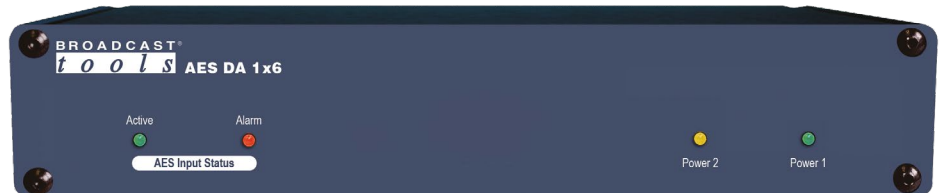
Broadcast Tools Updates AES Distribution Amp

Broadcast Tools is releasing an updated six output AES/EBU digital audio distribution amplifier, the AES DA 1x6, replacing the AES DA 2x6.

The new hardware design includes dual (2x) power input jacks, allowing for redundant power with an optional second power supply.

The AES DA 1x6, six XLR output, one-input AES/EBU distribution amplifier is suitable for distributing AES/EBU signals or wordclock. The system's transformer-isolated input uses a standard XLR audio jack for balanced AES/EBU signals. Termination of the AES input is jumper-selectable between 110-ohm, 75-ohm, and open (no termination). The AES input is distributed to six transformer-isolated XLR output jacks.

An internal AES/EBU activity detector provides local and remote signal monitoring via front-panel LED indicators and a SPDT alarm relay. The alarm relay contacts are available on a rear plug-in euro-block connector. Signal bypass is built-in with XLR AES Input 1



passively routing to AES Output 1 in the event of power loss. A surge-protected universal switching desktop power supply with an IEC AC inlet is included, and a second power supply is optional, allowing for dual-redundant (2x) operation. Two units may be mounted on the optional Broadcast Tools "RA-1" 1RU rack shelf.

Info: www.broadcasttools.com



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Calrec Type R Is a Building Block to IP

The Calrec Type R for Radio is intended to allow stations of all types and sizes to take advantage of the move to IP. The manufacturer describes it as “a central building block as stations embrace this change.”

Type R is a modular, expandable, IP-based mixing system designed used by broadcasters like Eldos FM in South Africa and Pepper FM in Greece. It offers three hardware panels for a range of layouts that Calrec says are easy to customize.

The system works with Calrec’s Assist software, providing remote control that allows users to work locally and from anywhere through virtual working

practices. The flexible IP core allows for the automation of broadcast workflows, saving time and costs. The system is compliant with the SMPTE 2110 standard, so it can integrate with other IP-based broadcast equipment.

Type R provides mix facilities for up to three independent mixers to hang off one system core. Its hardware elements are portable, making it easy to take on location for remote broadcasts or other events. It also offers automated programming that can be adjusted in real time to unpredictable external factors via the web



or dedicated hardware elements. NAB Show Booth C6107.

Info: <https://calrec.com/shop/broadcast-audio-consoles/type-r-for-radio/>

ISS Offers Radio for Events, Emergencies and STAs

EventCAST Portable Radio Systems from Information Stations Specialists can fill the gap when you need to light up an AM signal quickly due to loss of a main transmitter/antenna/site, maintain an STA or broadcast local event traffic or parking info.



When an emergency is imminent, EventCAST Systems can be on the air in short order to inform motorists regarding safety procedures and status. The portable 10-watt transmitter and antenna system deliver a 3- to 5-mile daytime signal radius and can operate variously under Part 73 or Part 90 (TIS) licenses.

The system includes a program mixer for live feeds and a USB-based audio system for easy program repetition.

Information Station Specialists says units are “kept hot and ready to ship on a moment’s notice.”

Users of EventCAST systems include radio broadcast companies, departments of public safety, health and emergency management and state departments of transportation. The company can help with TIS licensing when the application is for public safety.

Info: www.theradiosource.com/services/eventcast.htm

M!ka Hush Enables Intuitive On-Air Signaling



New from Yellowtec is hush, a plug-and-play solution for the company’s m!ka family.

“Hush on-air controls now provide comfortable ways to handle your signalling,” the company says. “They are designed to fit Yellowtec’s famous m!ka mic arms with on-air indicator. There is no need for self-made solutions or compromises anymore.”

Two versions of m!ka hush are available. Hush offers control over your m!ka mic arm’s LED signalling, while the hush+ version adds high-end mic preamp settings.

“Hush+ provides you with advanced mic preamp and control functions for your mic signal. A lot of microphones have a low sensitivity and need a preamp in front of their mixer. Hush+ allows you to set up to incredible 75 dB gain as high-end preamp. With –129 dB input referred noise, it stands out.”

A hush device can be controlled via Yellowtec’s hush Remote, GPIs, USB-HID, USB-MIDI or external MIDI-interface.

Via GPIs, any standard open collector output of a mixer can be connected. Via MIDI, hush gives you control over signalling via DAW. “For example, directly turn on your on-air indicator whenever you press record within your DAW software.” For USB-HID mode, libraries are available to support writing your own software tools.

M!ka and Yellowtec’s litt signalling device can both be controlled via GPO. At NAB the company will be in Booth W3558.

Info: www.yellowtec.com

Dielectric Reconfigures Manifold Combining

At the NAB Show, Booth W3601, Dielectric will introduce reconfigurable manifold combiners for multi-station RF facilities, applicable for FM radio and UHF TV uses.

The company has been making manifold combiners for two decades, but it says the new offering introduces system expandability to manifold designs that in the past could would be expanded by adding constant impedance filter units.

"This offers an attractive option for sites installing new master broadcast antennas that can quickly add new tenants in the future, without the space constraints and assembly labor that CIF-based expansion requires," according to the announcement.

The combiners are essentially modular fixed units built to specification. "For example, a site owner with five broadcasters today and a goal of seven total tenants can specify a manifold combiner with seven ports. Dielectric builds the initial system with five filters and protects the two open slots with shorted ports, or 'shorts.'"

Those shorts are removed as filters for new tenants are added to the manifold combiner. Dielectric can build those filters in advance if desired.

The company can provide calculations that consider how a site owner can add broadcast frequencies in various combinations. "Importantly, these calculations even look beyond what the site

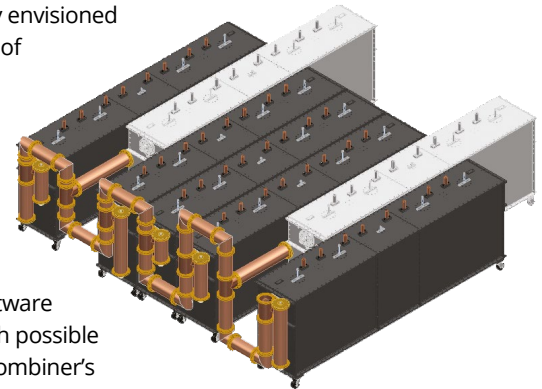
owner may have originally envisioned as the maximum number of tenants," it said.

The analysis can show how many potential stations in a market can join the master antenna system later. Dielectric uses its High Frequency Simulation Software tools to calculate how each possible frequency will affect the combiner's output splines. New tenants are added by removing a shorted port, adding a filter and changing transmission line.

The company said that its market analysis covers all possible frequency combinations, so unexpected additions later can be accommodated after the open ports are filled.

Dielectric highlighted the consistent electrical specifications of manifold combiners, as well as their smaller footprint compared to alternatives including CIF systems.

Info: www.dielectric.com/rf-systems/



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ERI Shows New Motorized Coaxial Switches and Controller

Electronics Research will show new motorized coaxial RF switches designed for VHF and UHF applications in Booth W3143 at the NAB Show. It will also offer a new motorized switch controller.

The four models include the 1-5/8-inch Model CS203C switch, the Model CS350C for 3-1/8-inch requirements, the 4-1/16-inch Model CS400C (shown below, top image) and the Model CS600C for 6-1/8-inch applications.

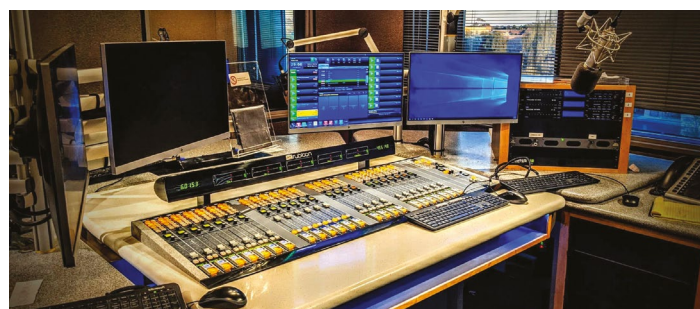
"These coaxial switches are broadband and suitable for applications from 500 kHz to 608 MHz and do not need to be tuned to a specific channel," it states.

"The coaxial port configuration is a coplanar design that minimizes the elbows required in most installation configurations. The control interface and interlock connections are made with Cat-5 or Cat-6 cables and RJ-45 connectors."

In addition, ERI has updated the CS250C, CS350C, CS450C and CS650C VHF (DC to 274 MHz) coaxial switches and the Model CS252C, CS352 and CS452 UHF (any single 6, 7, or 8 MHz TV channel from 470 to 698 MHz) coaxial switches with new drive motor assemblies and control circuitry.

The new EC130 motorized switch controller (second image) is designed to control one or two motorized switches and includes an SNMP interface. Adding an optional ERI Model VDM303 RF Power Detector, the EC130 will detect the presence of RF applied to the switch and prevent accidental switch activation while under power. The control interface and interlock connections are made with Cat-5 or Cat-6 cables with RJ45 connectors.

Info: www.eriinc.com



SAS Global Connect Extends WAN-Based Command and Control

Sierra Automated Systems has introduced SAS Global Connect, a command and control structure for SAS and third-party broadcast devices living on local and wide-area networks.

"SAS Global Connect acts as a software-based NOC for broadcasters to centrally manage entire network operations, and can interface with all components in a broadcast infrastructure from microphones to antennas," the company says.

It is available now as on-premises software. A containerized cloud software version will be shown at the 2023 NAB Show.

"Sierra Automated Systems has embraced audio over IP routing in its product development over the last decade, with an emphasis on networking Dante, AES67, SMPTE 2110-30 and other digital audio signals within local facilities," the manufacturer said. "SAS Global Connect represents the company's strategy to help customers look beyond the local facility to simplify overall operations."

For example, it said a producer in one location can manage simple and advanced remote operations with a button press, from turning microphones and studio lights on and off to triggering automation systems and transmitter feeds. Users can originate programs across numerous locations, such as bringing syndicated programs to air for their scheduled slots across separate cities. At the same time, users can monitor the health and status of all devices on the network, and switch to redundant components as required.

SAS Global Connect is backwards-compatible with most legacy SAS consoles, routers, audio engines and hardware interface accessories, as well as all modern IP-enabled SAS products.

SAS will be in NAB Booth W3315. DNAV, Sierra Automated Systems' manufacturer's representative, is rolling out SAS Global Connect and will demonstrate SAS command and control functionality at the SAS, Orban and American Amplified Systems booths at NAB.

Info: www.sasaudio.com/

Probe 5 Knows Where Your Signal Goes

V-Soft Communications says Probe 5 is a unique Windows RF propagation modeling application for FM full-service, NCE stations, translators-boosters, DTV/TV and DTS communications systems. Among other things it now can use topographic maps as the underlay to RF coverage plots.

Probe 5 produces "spectacular," atlas-type, coverage and interference plots with high-resolution population databases and state-of-the-art polygon mapping. Modeling includes Longley-Rice, Okamura-Hata, Cost-Hata, PTP #1 & #2, line of sight, ITU-FM, and standard FCC.

The software has been adopted by the FCC and Industry Canada. The intricate Longley-Rice graphic shown at right was produced by Probe 5.

As noted, new in the program is the ability to use actual topographic maps as the underlay to RF coverage plots.

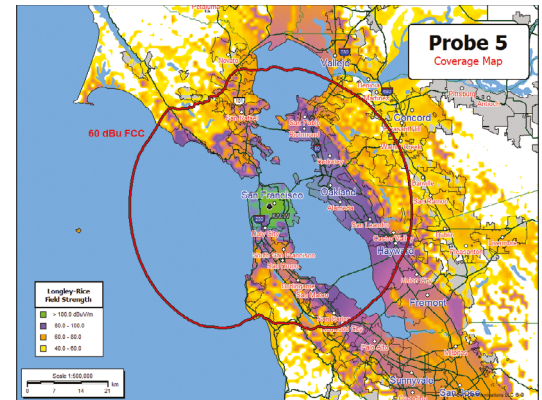
The Raster Map Data Layer consists of

digitized topographic maps and aerial imagery. This feature uses pre-indexed data files to merge different tiled maps together automatically. The program includes 1:100k and 1:250k USGS Digital Raster Graphic (DRG) data that is sent to the new owner on an included hard drive.

Also available is 1:24k high-resolution, US Topo map database that includes orthoimage photographs, the 1:50k Canadian Toporama, and 1:250k CanMatrix data.

The program can import and export polygon data using standard GIS formats such as MIF and SHP files. It can also import and display GeoTIFF files, so it can lock hands with other GIS mapping programs. Probe 5 includes the 2020 U.S. Census database and updated boundary files.

For path studies, the new Probe 5 features V-Soft's implementation of the industry



standard National Spectrum Managers Association OHLOSS propagation model. It is a complete, terrain-based, point-to-point model that can also be used for FM and TV frequencies and is commonly used for microwave link analysis. NAB Show Booth W2859.

Info: www.v-soft.com/probe

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PayNow Propels the Future of Payments

"Getting paid shouldn't be a pain," Marketron says, promoting its latest update to PayNow, an integrated electronic payments platform for broadcasters.

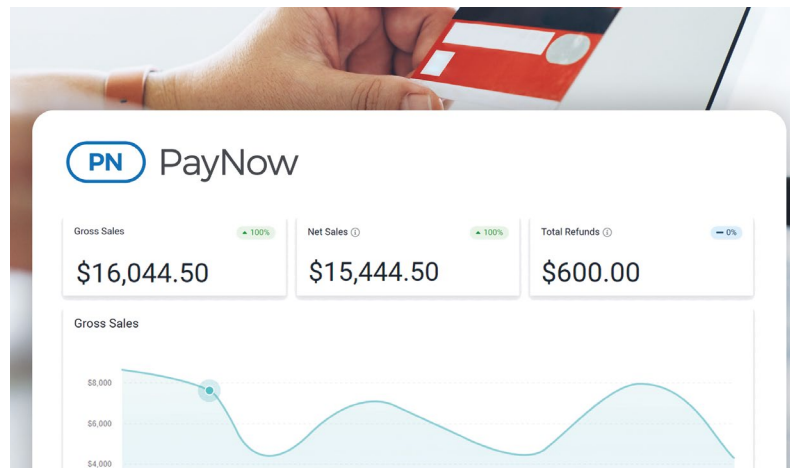
The company says you may already accept credit card and ACH/electronic check payments in your accounts receivable process.

"But have you researched how effective and reliable it is lately? You need technology that powers AR, helping improve your bottom line, increasing cash flow and streamlining processes."

It says PayNow modernizes the payments workflow, from invoicing to payment to funding. Fully electronic invoicing, it says, eliminates manual steps and the costs of printing and mailing invoices.

"With an advertiser-friendly portal, your customers can view and pay their invoices securely online in minutes. By making payments easier for their advertisers, broadcasters cut their days outstanding by up to 32 days with PayNow, based on Marketron's data. Funding is as fast as one day — not days — improving cash flow each month."

Features include a built-in merchant processor and competitive flat rates on credit card and ACH processing that Marketron says make it easy to see costs associated with accepting electronic payments.



"It's transparent and understandable, so you can improve projections and simplify reporting."

Info: Marketron.com/paynow

WinSafe Protects Your Station

WinMedia's WinSafe backup and disaster recovery solution is intended to keep data safe and a station on the air 24/7. Database and audio/video samples are backed up and encrypted in the company's Tier 3+ data centers in Switzerland, France, Singapore and Canada.

"You will have a VM with a full Playout that is running the same playlist in the same time as your studio Onair playout. It allows to switch the program feed at your transmitter site to this full backup program in any failure situation, so you can return to on-air operation with just a few clicks, using the latest playlist and copy of your database."

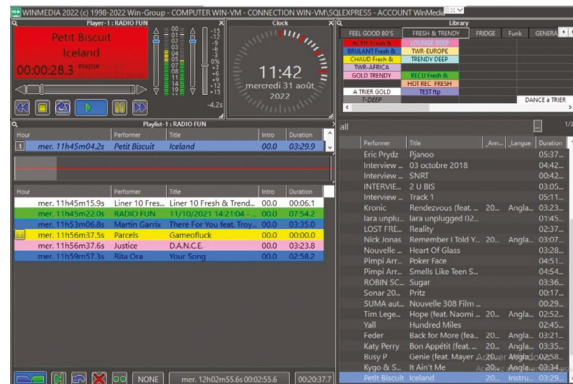
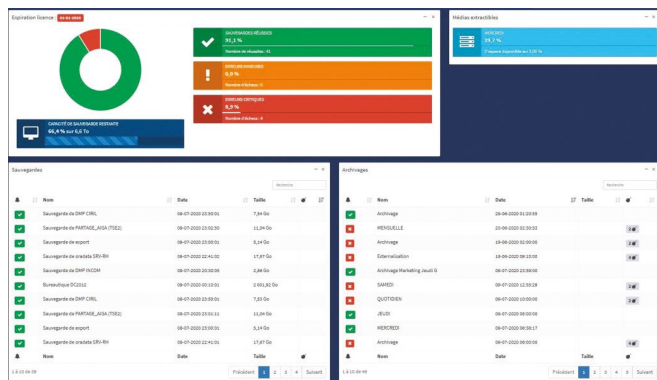
The system also provides P2V optional VM mirroring of your physical computers, allowing fast access to workstations that are critical to your workflow.

"WinSafe provides permanent incremental backup at three different physical locations, retaining 14 days of your data and backing up every hour of the year using stealth and anti-malware Hyperion Software's DataClone archiving back-up tool, full GDPR-compliant."

It says the system is ransomware-proof and can't be affected in case of a virus attack, unlike traditional antivirus or studio backup systems.

"You can monitor the status and sleep with no worries. Highspeed D2D2D transfer will help you rebuild your station in as little time as possible. During that time WinSafe is running the current playlist and assures you will have the advertising still broadcast as planned." NAB Show Booth W2221.

Info: www.winmedia.org/winsafe



Sprite Media Asks: What's on Your Screen?

Many broadcast facilities are built with television monitors on their walls, but Sprite Media says stations can make better use of them than just showing your logo, a local news station or nothing at all.

The company describes Sprite Presenter as “your front line of connection.” It is a visual presentation that greets guests throughout the day with a “Good Morning” or a “Good Afternoon” message, the latest weather and your chosen information feeds, news and social media highlights.

“You even have the ability to add your own local information or wish ‘Happy Birthday’ or ‘Congratulations’ or anything else you want to your valued team members or guests.”

Information is pulled from your news sources, social media sites, weather forecast and other relevant sources that matter to your station. Visual effects include motion



backgrounds, motion titles and wipes. The display can be customized with your logos, fonts and colors by Sprite's designers.

Sprite Presenter is a one-time purchase with no licensing or data fees. At the NAB Show, Sprite Media Presenter will be on display at the Broadcasters General Store booth, C2213.

Info: www.sprite-media.com



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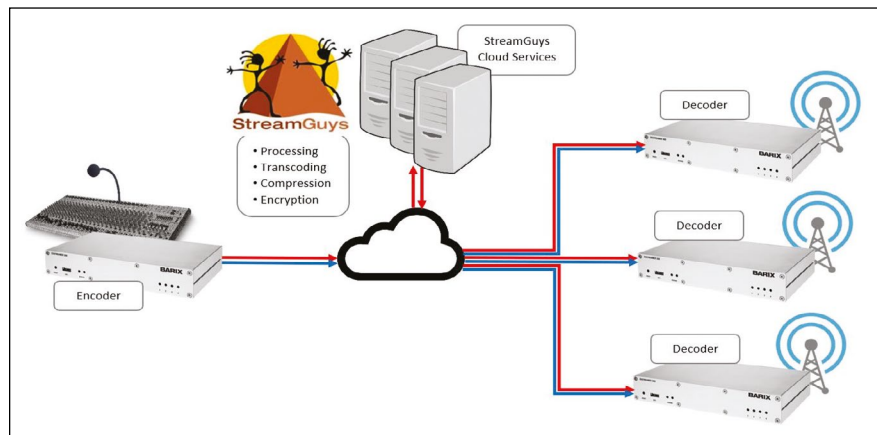
Barix Reflector EVO Cloud Service

Barix returns to the NAB Show with Reflector EVO, calling it a next-generation cloud service for audio contribution and distribution. It improves on the original Reflector by adding "guaranteed absolute audio delay," improved stream redundancy, browser-based confidence monitoring and Opus audio support, Barix states.

"The addition of Opus support provides broadcasters with a high-quality, bandwidth-efficient option to uncompressed PCM streaming and other compressed audio codecs that Barix continues to support in Reflector EVO."

Barix is partnering with StreamGuys for virtual cloud hosting and full-time back-end support, providing a reliable and scalable service for unidirectional STL connections, syndication distribution and stream replication services such as rebroadcasts and retransmissions.

The company will introduce a broadcast-specific hardware codec to pair with the Reflector EVO service. Customers can use the same codec as an encoder and decoder. Neither fixed IP addresses nor firewall maintenance are required. Deployment is quick, with simple connections at the transmit (encoding) and receive (decoding) points.



Reflector EVO enables fixed end-to-end audio delay. Customers can configure encoding quality and the desired audio delay level of the receiving decoder, between three and 30 seconds, with seamless communication between each device from any global location. Primary and backup streams recover lost packets through redundant paths and multi-source switchover capabilities. NAB Booth C2835.

Info: www.barix.com/

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Digigram Calls Iqoya Connect “Your Golden Ticket”

Iqoya Connect is Digigram’s remote broadcast cloud solution. “The sophisticated yet powerful cloud-based service is designed to give professionals complete control over their entire codec fleet, surrounding all phases of remote broadcasting,” it states.

The service allows remote management, monitoring and remote control of a broadcaster’s audio codec infrastructure via high-quality, reliable and secure audio connection. It contains visualizations of all codec statuses, logs, packet data and statistics and is compatible with third-party codecs.

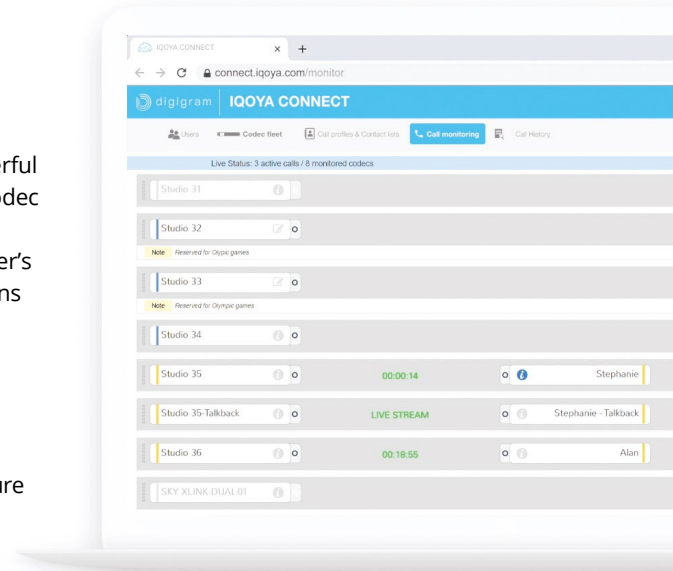
“Iqoya Connect makes all calls and assistance requests easier by providing access through web-based applications accessible in the field. Broadcasters can create field codec configurations remotely and on the fly, giving remote talent the ability to log into their field codec and download all of their settings from the cloud.” Thus there’s no need to preconfigure field codecs or worry about users taking the wrong codecs into the field.

If hardware codecs are not available, Iqoya Connect gives engineers the ability to generate custom URLs connecting remote guests to a studio codec with a web browser link. The secure connection service Iqoya Connect displays generates a failure-free setup between field and studio codecs with real-time alarm and communication monitoring.

It also provides unlimited remote access to field codec settings. “With around the clock operational support and remote accessibility from anywhere in the world,” Digigram says, “Iqoya Connect is a guaranteed golden ticket.”

At NAB, find the company in Booth C2325. Digigram products are distributed in North America by Synthax.

Info: www.digigram.com/ and www.synthax.com/



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