

# Telestream

## What's New at NAB 2022



### Media Processing & Workflow Automation

Enterprise software and systems for transcoding, captioning, QC, and live streaming



- Vantage 8.1 Update Pack 1 is the latest release that includes several enhancements to Vantage actions and cloud-enabled workflows.
- Vantage has added support for Signiant Media Shuttle with a new connector, FrameFormer framerate conversion that does not need a GPU, and a new Transform flip action for custom Vantage solutions that leverage Telestream Cloud. Also new, additional integrations and connectors include support for Frame.io, Alchemist, and DIVA.
- Vantage Transcode Multiscreen has added GPU-accelerated H264 and HEVC encoding utilizing Nvidia NVENC, which means the same quality can be achieved in much less time, and extended CMAF capabilities that include SCTE 35 ad insertion and support for multi-language subtitles..
- Vantage Media Processing Platform supports Dolby Vision® and Dolby Atmos® including new support for a Dolby Vision to standard dynamic range (SDR) filter. Vantage also now supports HDR10+.
- Vantage now has additional transcoding capabilities including support for FFV1, Grass Valley HQ/HQX (Canopus), DVCPPro and DVCPPro HD, and AS-11. Vantage can also now produce Omneon-compatible outputs.
- **DEMO** CardAgent for Vantage – job submission tool which allows non-technical staff to prepare media files for processing by a Vantage workflow.
- Optional color processing filter from Colorfront is now available for Vantage Flip64.
- Switch 5 adds improved performance, Reduced Frame Decoding, ProRes RAW playback (Pro), IMF/DCP Package playback (Pro) & more. Switch is based on the Telestream Media Framework, which means new releases keep up with the latest advancements in containers and formats as they are included in the framework.
- GLIM 2.0 has a brand new UI that puts video front and center to the user experience. There is also a zoomable time line with selectable overlays such as GOP, SCTE 35/104, and Nielsen watermarking. GLIM 2.0 also includes a tech preview of a luma scope.
- Lightspeed Live Capture has been updated with a 2-channel 12G SDI option, and a 25G 2-port ST 2110 option. Sub-clipping based on GLIM is also a new option.
- Lightspeed Live Stream now has support for CMAF packaging and SRT output.
- ContentAgent v3.12 supports IMF packaging, GPU accelerated BMD RAW decoding and Codex HDE ARRI RAW processing, and several other enhancements.
- ContentAgent Server now available. Housed in a 1 RU chassis, ContentAgent Server reduces rack space, power and cooling requirements while meeting processing demands with ease.
- Stanza is a totally new software application for creating and editing captions and subtitles using a multi-platform, browser-based user interface. Stanza is sold as a subscription, which makes it economical for operations of all sizes. Stanza, when used with Telestream Cloud Timed Text Speech, enables automated transcription workflows with high accuracy. Stanza also integrates with Timed Text Flip for advanced captioning workflow automation.

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### Telestream Cloud

*A cloud-native platform for professional-grade services for transcoding, QC, and speech-to-text transcription*



- Qualify is a brand-new cloud-native QC service that combines the best of Vidchecker and Aurora made available in Telestream Cloud, which means this new service is a combination of the technology obtained from three Telestream acquisitions. Qualify is also built upon the Telestream Media Framework, which means new releases keep up with the latest advancements in containers and formats as they are included in the framework.
- Transform is a cloud-native transcoding service made for development teams creating their own workflows. Transform is built upon the Telestream Media Framework, which means the transcoding and media processing technology within the service has been tested in the most demanding broadcast workflows, and that users do not need to be experts in the myriad of formats and containers in use worldwide.

### Video Test and Synchronization

*Software-defined hybrid SDI/IP waveform monitor platform for engineering and production*

- PRISM MPS and MPD Series, small form-factor Waveform Monitors expand the platform family with multiple inputs and fast IP switching. Flexible enough to support both HD and UHD as well as SDI and IP in the same instrument, and with applications serving the needs of both engineering and production users, the expanded family of PRISM instruments maximizes the return on the investment for users across the media chain from production to distribution. The new MPS and MPD models consume minimal rack space and are shallow enough to fit perfectly into the tightly constrained space available in live production environments like trucks. With a mechanical design that uses low-noise fans for cooling, the new PRISM family members are quiet enough to sit in edit suites and even postproduction rooms.



Because these are software-defined instruments, it's possible to start economically and to enlarge the feature set as the user's needs change. It's also easy to adapt the mounting for these instruments for specific applications, to access the complete user interface remotely over a wide-area network, to control PRISM with an easy-to-understand API, and to seamlessly integrate the instruments with Telestream's new Inspect 2110 monitoring solution.

*Accurate, resilient timing and synchronization from a company that knows video*

As important as easily diagnosing problems is the possibility of avoiding them in the first place. Many common challenges that PRISM helps to analyze surround timing and the specific issues that result from multiple streams and multiple protocols. For that reason, along with PRISM's diagnostic capabilities, a facility design and implementation that begins with the most accurate, resilient timing solution possible, is crucial. Therefore, along with PRISM, the SPG8000A hybrid SDI/PTP synchronization generator and its companion ECO8000 changeover round out our future-proof solutions for SDI, IP, and hybrid facilities. Together, these instruments ensure technical success throughout the IP transition.

*Expanded Monitoring Coverage into Production Networks*

- In transitioning from SDI to IP, engineers and operators lose visibility of the high volume of activity on their network and the continual changes to their content. Inspect 2110 provides the required visibility by monitoring content and key parameters on ST 2110 and ST 2022-6 networks. It offers monitoring by exception to alert users with warnings and alarms. It is an essential and trusted tool for Engineering, System Integration, and Operations teams because it monitors your networks in the background 24/7. It makes users more productive because they can focus on doing their jobs without being bothered unless there is an issue. The Inspect 2110 probe ensures system synchronization, that correct content is present, redundant systems are the same and optimal network performance is achieved. Inspect 2110 also verifies that your SDP files are correct and can look at your content by checking formats, resolutions, bitrates, and frame rates to ensure streams are correct, contain valid content, and are error-free. With its customizable dashboard and video/audio playout, Inspect 2110 enables users to be focus on resolving issues by proactively detecting issues for them and directing them right to the area requiring investigation.

With our direct one-click integration, PRISM serves as a companion diagnostic tool to let staff quickly jump into in-depth analysis with a click of the "view in PRISM" button. This automatically launches and configures PRISM to view the stream in question, allowing you to troubleshoot your media network with speed, agility, and precision.

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### *iQ Video Quality Monitoring*

*Automated Real-time monitoring of Video Distribution Networks from content origination to subscriber*



iQ Solutions simplify quality monitoring of hundreds or even thousands of live or VOD video streams for service assurance, troubleshooting and compliance. With the largest and most complete portfolio of monitoring products the iQ solution can monitor, collect and analyze data at every point of transition in the delivery chain from uncompressed, to compressed contribution and distribution over cable, satellite, or internet. The centerpiece of the iQ solution is the iVMS ASM management system which aggregates data from probes in different points of the chain, providing analytics and deep dive information to identify problems and zero in on where the root cause originated. This translates to a faster time to repair with less people involved.

The iQ Video Quality Monitoring solution can be deployed into a wide variety of use cases ranging from cable head-ends, ground-to-cloud distribution to OTT providers and increasingly in broadcast as they transition to IP infrastructure. The key value of all these solutions comes from automating the surveillance of the video delivery chain that will have a material impact on the business of delivering the video:

- Inspecting video and audio quality (QOE) across 100s or 1000s of flows to limit subscriber churn
- In-depth measurements of captions and loudness to remain in legal compliance and avoid fines
- Ensuring the correct ad-markers are present to generate down-stream revenue for Insertions
- Aggregation and correlation of that information to pinpoint where problems arise in real-time so outages can be minimized

#### **What's new at NAB 2022 for Telestream's iQ portfolio?**

**Significant expansion of capability for monitoring OTT head-ends** where live content is acquired, transcoded, and packaged as ABR and delivered to the Origin Server. The key expansions to the iQ Video Quality Monitoring solution for this use case includes the following highlights:

- **Zixi and SRT transport stream monitoring** for public internet contribution links into the OTT head-end
- Support for **HEVC 4:2:2** for efficient uplinks to the cloud
- Support for **JPEG-XS over ST2110** for low-latency up-links and down-links to/from the cloud

- **Expanded support for DRM** so that encrypted content can be inspected at the content level. This list is growing and now includes Play Ready, Synamedia, Fairplay, Widevine, ESRM, IrDeto and Veramatrix
- **Improved Ad marker monitoring** that can validate if the SCTE-35 is present, if it transitions to the ABR manifest without error and that the expected level of ad space is being delivered
- **Kubernetes container packaging** for the probes so that they can be deployed directly into customer VPC

**Continued investment and expansion of capability for the iVMS ASM management system** where data from all of the iQ probes are collected, analyzed and presented to Operations and Engineering teams to provide high-level visibility and correlation for complex video distribution networks.

- **Pay-as you-grow pricing model** that makes the power of centralized probe management affordable for smaller scale systems
- **Sentry probe support** into iVMS ASM enabling correlation with IQ probes and providing advanced centralized management
- **Video on Demand Testing** and reporting to validate content readiness before customers start streaming
- **Dynamic Ad Insertion monitoring** for end to end advertising workflows from TS source to ABR delivery
- **Enhanced Linear and Adaptive Bit Rate Monitoring** that's optimized for OTT head ends
- **Centralized probe configuration and management** for reducing time for commissioning, upgrades and service deployments
- **New Topology and Asset views with Centralized API's** greatly enhance real-time and diagnostics workflows and simplify monitoring

*Better Visibility. Faster Diagnostics. Reduced Time-to-Resolve*

- Monitoring of QoE and QoS in the production network. Enhanced visibility post origin server of encrypted streams, and Dynamic Ad Insertion. Flexible cloud, virtual or appliance-based deployment options

The iQ Solution has expanded its monitoring coverage, delivers more in-depth monitoring and analysis, and supports the latest technologies all the while providing a flexible deployment model

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### *iQ Video Quality Monitoring (continued)*

#### **In-depth Monitoring and Analysis of OTT VOD and Live Streaming Media**

The iQ Solution provides enhanced visibility into the content quality of OTT VOD and live streaming media services in the CDN (post Origin Servers or Mid Cache) and post CDN (post Edge Cache). Using iQ's latest Surveyor ABR Active monitoring technology, streaming media providers have visibility into their content assuring the integrity and quality of the ABR transcoding, packaging and encryption of their OTT streaming services.

Surveyor ABR Active provides QoE and QoS measurements on unencrypted and encrypted content, supporting PlayReady, Synamedia DRM System (supporting both Fairplay and Widevine DRM), EZDRM, Irdeto, and Veramatrix. The iQ video management system, iVMS ASM, with its new and improved reporting and analysis capabilities for OTT Video-On-Demand (VOD) simplifies the detection and isolation of issues enabling users to reduce the time to resolve issues. iVMS ASM provides new detailed reports that include visual reference with thumbnail images for all QoE errors.

#### **Monitoring of Dynamic Ad Insertion (DAI) of OTT Live Streaming**

The iQ Video Quality Assurance solution helps protect your ad business model by monitoring and auditing the Dynamic Ad Insertion (DAI) workflow making sure ad opportunities are present and without error. Telestream's iVMS ASM management system with Inspector LIVE, Sentry and Surveyor ABR Active monitoring technologies provides a comprehensive solution to:

- Quickly find fluctuations in ad opportunities
- Isolate trouble periods by time range and asset
- Confirm source SCTE-35 signaling to ABR manifest
- Drill down into visual reference and detailed metrics for each ad opportunity

#### **Flexible Deployment Model**

Telestream's iQ Video Quality Assurance solution can be deployed in a Public & Private Cloud, SaaS, Virtual, and Traditional Infrastructure.

### *Content Management*

#### *Asset lifecycle management for media content*



- Telestream Kumulate v2 is here and it's a free update for existing Kumulate and MassStore customers
- Kumulate v2 now supports the Archive eXchange Format (AXF), a revolutionary new standard that is helping organizations store, protect and preserve their valuable digital content
- Telestream DIVA makes it easy to transition from Tape to Cloud or manage hybrid environments with LTO-FS & LTO-9 support. DIVA is Cloud agnostic, we can manage your content and metadata in multiple Cloud environments

### *Production and Live Streaming*

Wirecast's industry-leading live-streaming and video production software for Mac and Windows enables individuals of all experience levels to host professional, high-quality broadcasts easily. For those looking to build a live streaming studio from the ground up, Wirecast Gear is a turnkey live streaming hardware appliance with everything necessary to go live: simply connect your cameras, plug in your microphones, and start streaming.



#### *Live streaming production software*

- Wirecast is now updated to version 15, bringing with it new functionality, as well as platform stability and resource efficiency enhancements, all geared toward empowering content creators to more easily create professional broadcasts. The highlights include support for 4K video sources, new Social Media Comment overlays, a refreshed user interface, performance and stability improvements, improved audio meters, additional animated titles, and much more.
- Wirecast Rendezvous has also benefitted from some improvements, including Rendezvous Music Mode: a preset specifically designed to capture high-quality audio from musical instruments. Additionally, Rendezvous hosts have more flexibility to configure layout options, view network diagnostics, mirrored video, guest audio muting, and more.

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### *Production and Live Streaming (cont'd)*

#### *Live streaming production appliance*

Wirecast Gear is a family of live streaming production appliances for HDMI, SDI and network video sources. Plug in sources and start using Wirecast immediately with a no-hassle setup used by major broadcasters and small event producers alike! Combined with an optional Gear Care package with live support and overnight replacement, Wirecast Gear is the true worry-free solution for live streaming at an affordable price.

#### *Sherpa's flexible, high-quality live-streaming and video hosting platform.*



Sherpa provides a secure, customizable platform designed for organizations to easily create, manage, and share large libraries of branded live and on-demand video to any size audience.

Fortune 500 companies have leveraged Sherpa for all types of corporate use cases: from virtual tradeshows to internal company town halls, from product announcements to lead generation webinars, from branded video advertisements to company training videos, and more. Supporting an infinite amount of visual design options, along with enterprise-grade security features and streamlined content management workflows, make Sherpa suitable for any marketing or corporate video use case.

Complete with a vast array of live and on-demand production and audience engagement features—such as bi-directional breakout sessions, remote webcam capture, viewer engagement tools like checkpoints, chat, and polling, as well as powerful marketing analytics—make this solution a breeze for any event producer from beginner to expert.

- Connect Wirecast with Sherpa's Multi-Presenter feature to automatically switch between multiple remote presenters using Wirecast Rendezvous Virtual Camera Output. Incorporate all of Wirecast's professional graphics and titles to stream content from every host or presenter at broadcast-level quality!

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