V10.0 Release Notes - LiveEdge® Node & EdgeCaster (VCP)

2023-12-07 V10.0.0.146.3

MUST READ BEFORE UPDATING!!!! Due to the Dynamic Outputs feature included in this release, if a device is [Factory Reset](#) or a [Reset Settings](#) is performed, the user must manually configure new outputs following [these instructions](#)!!!

Features

> **Zixi Feeder Encoder Backpressure:**
> - Backpressure is an encoding feedback mechanism that seamlessly adjusts bitrate on LiveEdge® Node - this occurs when the rate of incoming data to Zixi Broadcaster exceeds the rate of processing or outputting data, causing congestion and potential data loss - Adjusting bitrate automatically provides a much better viewer experience.
> - Two UI selections:
>   - Associated Video Encoder/Profile
>   - Zixi Output Configuration
> - Direct REST API support for Zixi Feeder Encoder Backpressure configuration

> **Dynamic Outputs:**
> - Dynamic outputs (w/ custom naming) provide increased flexibility to the mix, match, and number of outputs from LiveEdge®, allowing for the distribution of live feeds to more workflows, simultaneously. For example, dynamically add a high-resolution circular buffer to an existing live OTT output.
> - This feature allows for the dynamic configuration of the outputs you wish to use without the hard requirement to view all other outputs.
>   **NOTE!!! The LiveEdge® Node / EdgeCaster hardware and computational capacity remain the same. Computational requirements are different for every workflow, so it is important to monitor LiveEdge® Cloud Control and be aware of usage.**
> - Direct REST API support for dynamic output configuration
> - XML support for dynamic output configuration

> **LiveEdge® Cloud Control-based Licensing Administration for Videon devices:**

- Cloud licensing provides a centralized way to remotely manage pooled licensing for fleets of LiveEdge® devices. Licenses are now fully dynamic and associated to a pool of LiveEdge® devices, so there's no need to worry about individual serial numbers, leading to much faster implementation and flexibility.

> **Deprecation of HTTP Pull support:**
  - Alternative means can be used for local confidence monitoring, including:
    – [AV Input Preview](#)
    – [RTSP](#)
    – [SRT Listener local feed](#)
    – [Unicast](#)
    – [Multicast](#)

> **Dynamic data encoder/profile configuration**
  - Local UI, Direct REST API, and XML configuration only

> **Dynamic input device configuration**
  - Direct REST API and XML configuration only

> **Beta Support for SCTE-35 ad insertion on HLS outputs**
  - Direct REST API configuration only
  - No current planned support for DASH

Bug Fixes / Improvements
> HTTP Push output stability enhancements:
  - General streaming stability
  - Memory utilization enhancements
  - Improved error reporting
> Local web UI error handling improvements
> Additional output status to include "Retrying"
> Direct REST API UX improvements:
  - Auto Input selection displays which input (SDI or HDMI) is being utilized by the device
> Audio encoder bitrate tooltips and selection improvements in local web UI

Known Bugs
> Dynamic Outputs REST API

- **REST API Change Note: Via API it is possible for the user to set an invalid hw_channel_id in the in_channel configuration via a PUT. Doing so will cause the input to become non-functional, and it won't be usable until the user deletes the now-broken in-channel and reboots the device. This is not possible via the UI but only via deliberate API use.**

Did you know?

> **New Form Factor - LiveEdge® 2Go**
- The LiveEdge® Ecosystem is now available in two small, rugged, and portable form factors - **LiveEdge® 2Go and 2Go Mini** - designed for the pitch, court, track, rink, or wherever your live events take you, prepared to take on the most grueling on-the-go workflows. Both subscriptions include Compute, Cloud Control, vCare and an encoding container per input - perfect for supporting multiple camera angles or backup feeds - add a la carte licensing options to personalize your workflow. Check out all the details Here.

> **New Use Case - Live-to-VoD Highlight Reels**
- Leverage streamlined social media and OTT workflows to optimize your broadcast workflows. The LiveEdge® Ecosystem is container-based, enabling you to imagine, test, and deploy high-quality broadcast workflows, like never before. Case in point - containerized social/OTT highlight clipping tools can now provide automated start/stop timing data to LiveEdge®. In turn, LiveEdge® can instantly deliver fresh highlight reels for social/OTT viewing, and high bitrate versions for traditional broadcast, replacing expensive manual processes and expensive tools. To learn more about Live-to-VoD and highlight clipping workflows, reach out to us Here.