

EdgeCaster Release Notes

V8.1.3.117.3

Bug Fixes / Improvements

- > Fix for Web UI bug placing red X for invalid FTP file path in wrong location
- > Fix for large recorded files not able to be played back when "Delete Oldest File When Full" and "Limit Max File Size" are enabled



V8.1.2.117.3

Bug Fixes / Improvements

- > Fix for file recording showing unsaved changes on web UI during FTP Upload
- > Fix for web UI slowing down during FTP Upload
- > Fix for Device Settings page not being displayed on web UI when using port forwarding
- > Improvement of video playback quality for SD resolutions
- > Improvements to prevent connection issues when RTMP server is in a faulty state
- > Improvements to SRT connectivity
- > Security improvements to hide and encrypt passwords and keys of confidential configurations for the following:
 - RTMP Integrations
 - SRT Encryption
 - FTP Authentication
 - XML Authentication
- > Improvements to XML web UI feedback when invalid URL is entered
- > Removed “NONE” option for SRT encryption in XML schema and REST API
- > Updated license naming to match newly defined product line names:
 - “Custom Compute Toolkit” > “LiveEdge® Compute”
 - “Origin Server” > “LiveEdge® Streaming”

V8.1.1.117.3

Features

- > Added software version and serial number to XML status
- > Added the ability to set a Custom Update Path for Custom Compute Toolkit Feature Set

Bug Fixes / Improvements

- > Improved SDI input source detection
- > Improved update notification of a failed download
- > Improved logging for update retrieval
- > Fixed multiple sporadic streaming hangs on AV input changes
- > Fixed a crash in some cases of disabling HTTP Push/Pull
- > Fixed an issue where users were experiencing poor 4K stream playback to YouTube

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V8.1.0.116.3

Features

- > Added support for SRT Listener
- > Mux RTMP Integration

Improvements

- > Akamai MSL4 Live to VOD archiving by ensuring HLS EXT-X-ENDLIST tag is added to final media manifests

V8.0.0.115.3

Features

- > Added support for multiple (3) SRT outputs
- > Added support for SRT stream ID

Bug Fixes / Improvements

- > Fixed possible failure to load static IP configuration on boot
- > Improved logging of unexpected errors
- > Fixed issue where Facebook stream would not start when set up using REST actions
- > Fixed an issue where some SRT socket options were failing to set
- > Improved NTP time accuracy
- > Updated web UI for increased compatibility with port forwarding

V7.10.0.109.3

Features

- > AWS IVS RTMP Integration
 - Refer here for guidelines on streaming to AWS IVS:
<https://support.videonlabs.com/hc/en-us/articles/4404815170963-Stream-to-AWS-IVS-RTMP->

Bug Fixes / Improvements

- > Fixed issue where web UI was sometimes failing to load all outputs

Known Issues

- > Techole and Cable Matters HDMI Splitters are not recognized as a valid source with

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Videon encoders.

- > USB drives must have a partition table to mount. Ensure the drive has a partition table and is formatted to FAT32.
- > When a storage device is unplugged, a new storage device must be manually selected.

V7.9.1.109.3

Bug Fixes / Improvements

- > Facebook Stream Title & Description no longer disappear after a reboot.
- > Disabling one output from an MBR Group using multiple outputs no longer disables all outputs.
- > Modified sub-playlist title names of HLS streaming for compliance with Akamai reserved playlist file names.
- > Network improvements were added to automatically re-establish a lost connection.

V7.9.0.102.3

Bug Fixes / Improvements

- > Changed AV Input Preview max Thumbnail size to 320px to help prevent performance issues when using Input Preview
- > Updated stream outputs (RTMP, Unicast, Recording, etc.) to enable when their settings are changed.

V7.8.2.102.3

Bug Fixes / Improvements

- > File recording's "Time Remaining" field now shows when the selected storage device is full
- > Facebook and YouTube RTMP integrations now dynamically adjust pairing poll interval to conform with respective platform API requirements to avoid pairing attempts being cancelled by Facebook or YouTube
- > Failed Facebook and YouTube pairing attempts now show an error message
- > HTTP streaming now separately chunks audio and video to improve general playback performance
- > HTTP streaming now supports extremely long segment windows; at least 2400 segments

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- > HTTP Streaming stability and latency drift improvements

V7.8.1.96.3

Bug Fixes / Improvements

- > UI now shows an error on save if no video profile is selected for an output
- > YouTube and Facebook integrations were updated to meet ToS, new privacy and branding requirements, as well as use the latest API calls
- > Fixed an issue with early-adopter EdgeCasters not automatically receiving Origin Server features with the new feature licensing system

V7.8.0.96.3

Features

- > Multi-channel audio support for non-HTTP outputs
- > Added a product registration splash screen on boot to appear until device has been registered
- > Added license key entry field in the advanced menu to activate advanced features

Bug Fixes / Improvements

- > Fixed HLS PROGRAM-DATE-TIME drifting from clock time
- > Fixed DASH manifest containing an invalid audio sample rate
- > Fixed File Recording sometimes failing to record to file

V7.7.2.96.3

Bug Fixes / Improvements

- > Fixed an issue where some TCP resets were unhandled when streaming to an HTTP origin server, causing players to stall on a missing video/audio segment
 - When a TCP reset is encountered, we now retry segment upload until the duration of the segment has passed

V7.7.1.96.3

Features

- > AV Input Preview feature added to Input Settings for confidence monitoring
 - This allows viewing up to 5 FPS of the video input and a real-time audio input

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- level meter
- > Digest Authentication support added to XML Control
 - Users can now host XML configuration files on digest authentication protected servers
- > Factory Reset now clears all recorded files on the Internal Storage
- > XML REST API control has been moved to its own /xml endpoint and the xml control in the /system endpoint has been deprecated
 - The XML fields in /system will continue to function for V7.7, but **will be deactivated** in a future release
 - **If using the REST API to configure XML control**, please migrate functions to the new /xml endpoint according to the updated REST API documentation [here](#)

Bug Fixes / Improvements

- > File Recording device selection policy removed to simplify File Recording setup
 - Storage device is now always manually selected
- > File Recording Max File Size now set only in GB since most users had only used GB
 - Valid configurable range is from .01GB up to size of storage device
- > HTTP Streaming stability improvements
- > Secure streaming connection stability improvements (ex: SRT, HTTPS, SFTP)
- > DASH AvailabilityStartTime now represented in decimal format instead of integers, allowing more precise ULL streaming
- > Improved the Facebook RTMP integration to more accurately populate scheduled streams based on recent changes to Facebook's Live Video API

V7.6.1.85.3

Features

- > Akamai service provider option now available in RTMP Outputs
- > HTTP Pull now serves HLS/DASH over port 8080 instead of port 80
 - This was a result of resolving CORS issues on HLS/DASH playback
- > HTTP Pull now has the option to enable ULL, functioning the same as in HTTP Push
- > NTP section added to Device Settings to allow users to configure the time server the encoder syncs with

Bug Fixes

- > UI no longer fails to fully load when USB or SD card is improperly removed while recording
- > MBR group now properly shuts down when removed from Outputs
- > SRT now requires users to enter a password no shorter than 10 characters

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V7.4.1.77.3

Bug Fixes

- > -10dB audio drop on encode fixed

V7.4.0.75.3

Features

- > Added support for SMPTE-334-2 608/708 Closed Captions via SDI for HD/UHD resolutions
- > Added Audio/Video Input statuses
- > HDMI connection EDID updated to "Videon"

Bug Fixes

- > Fixed an infrequent issue where the encoded video would frame shift with some sources
- > Improved UI load time
- > Audio and Video profiles are now removed properly from Output Source selection when deleted
- > File record error LEDs corrected to reflect error states
- > HTTP Push and Pull status corrected to reflect the on/off state
- > Improved network connectivity stability with static networks
- > DHCP lease renewal improved
- > Color space improvements on encode
 - Correct identification of Full vs. Limited scale
 - Correct identification of BT.601 vs BT.709 color space

V7.3.0.73.3

Features

- > Input Settings now shows a status in the UI
- > All Outputs now show status in the UI
- > "Recording and FTP" label changed to "Recording"
- > fMP4 is now the default media type for HTTP Pull and HTTP Push
- > MBR group can no longer be selected as a source if it does not contain any Video Profiles

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Bug Fixes

- > AV Synchronization stability fixes
- > Buffer management improvements
- > RTSP startup stability improvements
- > Recording now has the correct LED statuses reported
- > Device Name now appears next to Current Device in the Advanced tab
- > DASH Representation ID no longer changes mid-stream
- > ManifestType is now optional in XML control
- > HLS Master manifest now only uploads on start of HLS stream
- > Facebook RTMP integration now loads “Stream List” information properly

V7.2.0.61.3

Features

- > The hardware button on the front panel now controls all RTMP outputs
- > The currently select device now shows in the “Select a Device” dropdown on the Encoder Control page
- > B-frame control for HEVC was added to be the same as the Quality/Latency control for H.264
- > The MBR Group is now created automatically when accessing the Web UI
- > DASH manifest Representation IDs are now static rather than dynamically generated for each stream instance
- > HTTP Push now has the option to upload only the HLS manifest, only the DASH manifest, or both

Bug Fixes

- > Unplugging the Ethernet cable while running no longer reverts Static network settings to DHCP
- > SDI input locking stability improvements

V7.1.0.61.3

Features

- > B-frames are now supported for HEVC encoding as the Quality/Latency setting
- > Video and Audio profiles now have status messages in both the left sidebar and in the settings window when selected
- > Video profiles with MBR Group Member enabled can now be used for non-MBR outputs
- > Video profiles now report an error and associated error status when total resolutions

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- encoded exceeds 4Kp30
- > Audio Source selection in outputs now allows “None” for Video-only streams
- > Facebook now supports selecting scheduled streams on pages managed by the paired user
- > File Recording now has new features
 - MP4 record
 - Option to delete oldest recording from storage device when full
 - Storage device selection policies
 - 16GB internal storage now accessible
- > FTP is now part of File Recording settings

Bug Fixes

- > File Recording is re-enabled
- > FTP Upload is re-enabled
- > XML is re-enabled: [Videon V2 XML](#)
- > Hardware Stream button is re-enabled
- > Storage device management in the Advanced tab is re-enabled
- > YouTube RTMP integration more reliably generates a pairing code
- > Auto detect in AV Input settings now works properly
- > Encoded resolutions now correctly always report progressive, even when input is interlaced

V7.0.0.61.3

Features

- > EdgeCaster upgraded with the new [Videon V2 User Interface](#)
- > EdgeCaster upgraded with the new [Videon V2 REST API](#)
- > EdgeCaster now supports multiple Video Profiles, enabling synchronized Multiple Bitrate streaming for HTTP outputs
 - See UI walkthrough, linked above, for more information
 - Up to a combined total of 4Kp30 encoding can be done at the same time
 - Using multiple unsynchronized (not in MBR group) Video Profiles is possible across all available outputs

Bug Fixes

- > HLS Master Manifest BANDWIDTH and AVERAGE_BANDWIDTH attributes are now more accurate

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V6.5.0.61.3

Features

- > Release for Qualcomm-based VersaStreamer SDI

V6.4.0.61.3

Features

- > Facebook RTMP integration now supports editing event titles and descriptions

Bug Fixes

- > Improvements were made to file record stability
- > Software update logging improvements

V6.3.0.61.3

Features

- > Facebook RTMP integration now has support for scheduled streams.
- > Auto detect option added for AV input.
 - If both HDMI and SDI have valid video inputs, SDI will be used.
 - If both embedded HDMI/SDI audio and 3.5mm audio are detected, the embedded audio will be used.

Bug Fixes

- > Fixed issues where HTTP push files did not get uploaded to MediaStore if the segment length was larger than 3 seconds when Ultra Low Latency was turned off.
- > Enabled second HTTP push URL to work when streaming with Ultra Low Latency turned off.
- > Fixed playback issues when Quality/Latency was set to Normal for HTTP Push.
- > Fixed issue where Encoder Settings would sometimes reset when EdgeCaster was rebooted.

V6.2.0.61.3

Features

- > Modified encoder firmware update to include previous firmware files so the update does not have to be incremental.

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- > Recordings on the Storage Device list are now ordered by date modified.
- > Improved DASH manifest compliance with DASH IOP
- > “srt://” dropdown was added to the SRT output tab so “srt://” is now automatically inserted into the URL.

Bug Fixes

- > Smoothed out "bursty" network transmission for unicast and multicast out
- > Allow SRT settings to save even if the URL or port textfield(s) are blank
- > Modified the REST API so it does not save blank RTMP information

2020-01-31 V6.1.0.61.2

Features

- > Interlaced input support
 - Note: After updating, reboot the board to get interlaced input support.
- > SRT XML control
- > Dual URLs for HTTP Push
- > Web UI displays banner when used on outdated versions of Chrome or an unsupported browser.

2019-12-20 V6.0.0.43.1

Features

- > SRT output
 - We currently support the “Caller” mode
- > XML configuration from SD card
- > Advanced options resetting search by name box improvements
- > Socket is now opened on file completion for HTTP Push
- > Added "HTTP chunk size must be less than or equal to half the segment length" error message to HTTP Push

Bug Fixes

- > Fixed issue where web UI wrongly prompted after a change made to HTTP Push and Pull
- > Fixed issue where recorded files couldn't be downloaded from the web UI.
- > Fixed issue where “Error Saving Data” error occurred when down scale video with frame rates of 23 and 24 fps as input source.

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2019-12-10 V5.0.1.43.1 Release

Bug Fixes

- > Updated YouTube integration to use YouTube's new API.

2019-12-06 V5.0.0.43 Release

Features

- > First official release that is available using the "Check for Update" button in the Advanced page. All future updates will be released this way
- > TS support for HTTP streaming
- > Added error message of HTTP chunk size must be less than or equal to half the segment length for HTTP push.
- > HTTP streaming settings were added to XML control

2019-11-04 V0.1.206.43 Engineering Release

HTTP Streaming Improvements

- > HTTP XML control
- > Separate Push and Pull HTTP streaming outputs

2019-10-07 V0.0.19.43 Engineering Release

HTTP Streaming Improvements

- > A User-Agent header set to "Videon EdgeCaster4K 0.3" has been added to HTTP requests.
- > MPD@availabilityStartTime for DASH was fixed to never change after initially being set with the initial upload of the manifest.
- > HLS manifest names were changed to master.m3u8 for the master playlist, and playlist.m3u8 for all variant playlists.
- > HLS master manifest is now only uploaded at the start of the stream.
- > SegmentTimeline@startNumber and segment numbering now begin at 1, instead of 0
- > suggestedPresentationDelay was added to the DASH manifest

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2019-08-27 V0.0.445.43 Engineering Release

DASH Improvements

- > Support for HEVC
- > Configurable chunk duration by frames and milliseconds
- > Simultaneous HLS and DASH

2019-08-08 V0.0.319.43 Engineering Release

DASH Improvements

- > Separate Segments for Video & Audio for HTTP Streaming
- > Ultra Low Latency features were added to the DASH manifest - minBufferTime, availabilityTimeOffset, availabilityTimeComplete.
- > More accurate timing was added to the DASH manifest
- > Upon stopping the stream, DASH manifests will be converted to a static version referencing the “left over” segments from the final playback window

2019-07-19 V0.0.181.43 Engineering Release

DASH Improvements

- > Audio has been enabled in HTTP Streaming
 - This uses the same, muxed segment, referenced in separate Adaptation Sets
- > DASH manifest updated with more accurate metadata

Web UI Updates

- > The DASH tab in Output Settings was updated to be HTTP Streaming to make the web UI more generic

2019-07-11 V0.0.114.43 Engineering Release

HTTP Delete

- > Any segments uploaded to the ingest server are deleted from the server once they are no longer on the device file system

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2019-07-01 V0.0.57.43 Engineering Release

DASH Proof of Concept

- > DASH proof of concept
- > Video only
- > No HLS

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