

## Release Notes



**IMPORTANT:** Before updating OmniStream units, read the Update Instructions in the included AT-OMNI Firmware.pdf file.



**IMPORTANT:** To ensure compatibility with OmniStream firmware version 1.2.2 and above, AMS must be running version 2.2 or greater.

### Public Releases

#### Version 1.2.6

##### Features

- Added Link Layer Discovery Protocol (LLDP) support. An “LLDP” menu item has been added, which reports information such as the chassis and port information.  
*NOTE: In order for OmniStream to report this information, LLDP must be running on the network switch.*
- Added the EncGroupX CLI command, which supports Encoder grouping over Telnet / SSH. The command support the following arguments:
  - » enable = configure session X to join group
  - » disable = configure session X to leave group
  - » active = configure session X to join and become the active group
- Added audio tone generator option for both encoder and decoder. On the encoder, this option is found under the Session menu, and under the HDMI Output tab on the decoder.
- SAP SDP has been extended to report the AUX stream, which is used for control signals.
- **R-Type only:** Added VESA resolutions support.
- **OMNI-512 only:** SAP announcement default settings for Session 1 and 2 is now disabled, and Session 3 and 4 is now enabled.
- The default TTL PTP value has been changed to 8.
- The default PTP Clock Class has been changed to 248.
- On the decoder, the SAP listener has now been set to enabled, by default.
- SAP announcements now support a categorization field. The default category is “Atlona”. The category can be set within the web server of the encoder.
- Added 2560x1600p60 support.
- Added 480i and 480p support.
- Added 576i and 576p support.

##### Bug Fixes

##### General

- Fixed an issue where if OmniStream boots without a DHCP server presence, the system will remain in Auto-IP. OmniStream will now continue searching for a DHCP server.
- Distributing a 1366x768p60 source no longer experiences video quality issues.
- **Dual-channel units only:** Fixed an issue where the client MAC address did not correspond to the MAC address stored within the header of the Ethernet frame.

##### Encoder

- Fixed an issue where no audio was heard, if an AppleTV 4k was set to ‘Best Format’.
- High-latency networks no longer cause PTP synchronization issues.

##### Decoder

- Connecting a DVI display to a decoder allows video to be displayed. *NOTE: Decoder resolution must be set “Auto”, in order for this to work.*
- **AT-OMNI-122 only:** 90 and 270 degree rotation options have been removed from the video wall Orientation drop-down list.

## Release Notes

### Version 1.2.6

#### Known Issues

##### General

- When an Apple TV is the source, Dolby Vision will not pass the correct colors to a TCL-brand TV.
- There is no audio pass-through if an AppleTV 4k set to decode MCH LPCM audio. Workaround: Enable AppleTV 4k 'Change Format' or enable Dolby® Atmos® for downstream decoding of bitstream audio. Refer to <https://support.apple.com/en-us/HT204069> for more information.
- If LLDP is not running on attached network switch, then the LLDP menu page will appear to be continuously loading. This issue does not affect other menus within the web server. Workaround: If LLDP information is required, enable it on the network switch, globally or per-interface.
- Configuring the serial interface from CLI to TCPProxy will require that the configuration settings be saved twice. This issue occurs after performing a factory reset or upgrading from older firmware to version 1.2.6 on an encoder or decoder.

##### Encoder

- Cannot set the Ethernet interface to 'Not Used' if AES67 is enabled on the session.
- **Pro only:** When transporting two video streams over a single Ethernet cable, only one AES67 session is supported.

##### Decoder

- When using the external power supply, the unit will not connect to a PoE enabled Cisco Catalyst 2960-X.
- Switching to and from Video Wall mode, when operating HDCP 1.4 on dual-channel units, will take up to 15 seconds to display video.
- Video wall sizes larger than 8x8 are only supported through AMS or Velocity.
- Purple vertical lines may appear in the stream. Workaround: re-subscribe to the stream to fix the issue.
- If power is lost or the decoder reboots, RS-232 display control commands will no longer be sent. Workaround: Click the Save button under the Serial Configuration window group.
- **OMNI-122 only:** When initially configuring a video wall larger than 2x2, the HDMI output video will be corrupted. Workaround: Power-cycling the decoder to resolve the issue.

#### Will Not Fix (continued on next page)

##### General

- OmniStream Rev. B hardware will not support HDMI 2.0 or HDCP 2.2.
- Although Text Insertion, Logo Insertion, and Slate insertion are not supported when operating in Fast Switching mode, these configuration menus are still available through the web server.
- Logo image is displayed at less than or equal to 30% of its original size, when output resolution is 3840x2160 @ 60 Hz (UHDp60).

##### Encoder

- Support for single IR pass-through on the serial port 2 for AT-OMNI-112 (prior to hardware revision K) and AT-OMNI-111 (prior to hardware revision J).
- **Pro only:** Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will trigger an alarm message.
- Dual 4Kp60 encoding requires dual PoE Ethernet feeds or external power supply.

##### Decoder

- Dual-channel decoders will not support HDCP 2.2.
- Will not convert BT.2020 to BT.709 (Rec.709).
- Fast switching is not supported when the incoming content is interlaced.
- Single channel decoder output resolution is fixed to 1080p60, when Fast Switching is enabled, regardless of incoming resolution and frame rate.

## Release Notes

### Version 1.2.6

#### Will Not Fix (continued)

##### Decoder

- Dual channel decoder output resolution is fixed to 1080p30, when Fast Switching is enabled, regardless of incoming resolution and frame rate.
- When configuring video walls with more than two rows, the maximum decoder input resolution must not exceed 4K @ 30 Hz.

### Previous Releases

### Version 1.2.5

#### Features

- Added support for Portrait Mode Video Wall with 90-degree and 270-degree display rotation (single channel decoders only).
- **Pro only:** Encoders and decoders now support virtual reality resolution of 2160x1200 @ 90 Hz.
- Dolby Vision support is built-in and does not require additional license.
- Added HDR indicator in web server, indicating when stream contains HDR content. This applies to both encoder HDMI and decoder IP/HDMI interfaces.
- Decoder now reports video status of the incoming IP stream and HDMI output.
- Expanded DSCP setting for both video and audio streams. By default, TCP/IP stream is best effort.
- Added support for AT-OMNI-111-WP.

#### Bug Fixes

##### General

- Hostname is preserved during a configuration import operation, and does not cause the factory hostname to be reset.

##### Encoder

- Encoder IP stream is converted to YUV when subsampling is set to either 4:2:2 or 4:2:0, and occurs regardless of the Force YUV setting.
- Improved validation during firmware and configuration upload.
- Improved EDID input data validation.
- Fixed an issue where PTP clock drift caused periodical audio drop when using AES67 streams.

##### Decoder

- Fan RPM algorithm has been improved to decrease fan noise level.
- Fixed an issue where the last frame was repeatedly displayed when the incoming IP stream was lost on 1080p displays.
- When fast switching mode is enabled, changing input IP streams between HDR and non-HDR sources now works correctly.
- Fixed an issue where PTP clock drift caused periodical audio drop when using AES67 streams.
- Improved configuration validation to prevent color space toggling between RGB and YUV.

#### Known Issues

##### General

- When an Apple TV is the source, Dolby Vision will not pass the correct colors to a TCL-brand TV.
- When configuring video walls with more than two rows, the maximum decoder input resolution must not exceed 4K @ 30 Hz.

##### Encoder

- Cannot set the Ethernet interface to 'Not Used' if AES67 is enabled on the session.
- **Pro only:** When transporting two video streams over a single Ethernet cable, only one AES67 session is supported.

## Release Notes

### Version 1.2.5 (continued)

#### Known Issues

##### Decoder

- When using the external power supply, the unit will not connect to a PoE enabled Cisco Catalyst 2960-X.
- Switching to and from Video Wall mode, when operating HDCP 1.4 on dual-channel units, will take up to 15 seconds to display video.
- Video wall sizes larger than 8x8 are only supported through AMS or Velocity.
- Purple vertical lines may appear in the stream. Workaround: re-subscribe to the stream to fix the issue.
- On rare occurrences LG SE3D TVs experience lost HDMI sync with decoder during IP multicast stream switch. HDMI sync will recover automatically after short period of time.

#### Will Not Fix

##### General

- OmniStream Rev. B hardware will not support HDMI 2.0 or HDCP 2.2.
- Although Text Insertion, Logo Insertion, and Slate insertion are not supported when operating in Fast Switching mode, these configuration menus are still available through the web server.
- Logo image is displayed at less than or equal to 30% of its original size, when output resolution is 3840x2160 @ 60 Hz (UHDp60).

##### Encoder

- Support for single IR pass-through on the serial port 2 for AT-OMNI-112 (prior to hardware revision K) and AT-OMNI-111 (prior to hardware revision J).
- **Pro only:** Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will trigger an alarm message.
- Dual 4Kp60 encoding requires dual PoE Ethernet feeds or external power supply.

##### Decoder

- Dual-channel decoders will not support HDCP 2.2.
- Will not convert BT.2020 to BT.709 (Rec.709).
- Fast switching is not supported when the incoming content is interlaced.
- Single channel decoder output resolution is fixed to 1080p60, when Fast Switching is enabled, regardless of incoming resolution and frame rate.
- Dual channel decoder output resolution is fixed to 1080p30, when Fast Switching is enabled, regardless of incoming resolution and frame rate.

## Release Notes

### Version 1.2.4

#### Features

##### General

- Fast switching can now be enabled or disabled over Telnet and SSH.
- The AnalogInputEnable, AnalogInputStatus, AnalogOutputEnable, and AnalogOutputStatus commands have been replaced by the AnalogPowerEnable and AnalogPowerStatus commands. Refer to the OmniStream API documentation for more information.

#### Bug Fixes

##### Encoder

- Performing a soft reboot, when a 1080i source is connected, no longer results in a failed HDCP handshake.

##### Decoder

- The fan RPM algorithm has been adjusted to reduce fan noise during the idle state.
- Several displays have shown a momentary green frame when switching between multicast streams.
- Output no longer randomly “drops out” when Fast Switching is enabled in video wall applications.
- If Fast Switching is enabled, and Text/Slate Insertion is enabled, hot-plugging the HDMI cable no longer results in a loss of the HDMI output signal. Note that simultaneous use of both Fast Switching and Text/Slate Insertion is not supported in Version 1.2.4.
- EDID parsing error of SunBrite displays no longer causes a factory-reset of the decoder.
- In some instances, performing a hard power-cycle no longer results in corruption of the device configuration, which would require a factory-reset of the system.
- The loss of the right channel audio (analog or digital), in rare instances, has been addressed.
- “Crackling noise”, when using AES67 audio, no longer occurs on the analog audio output.
- In PC Mode, when Fast Switching is enabled, switching between YUV and RGB streams no longer displays the output with a purple/green tint.
- Fixed an issue where the output resolution remains at 1080p30 when Fast Switching is combined with a video wall application.
- HDCP handshake with Panasonic PT-RZ970 no longer results in video sync issues during a power-on event of the projector.

#### Known Issues

##### General

- When an Apple TV is the source, Dolby Vision will not pass the correct colors to a TCL-brand TV.

##### Encoder

- When using older DirecTV STB models that are having incompatibility issues, an ETU-SYNC must be used. Use the ETU-SYNC to learn the encoder EDID (not the display) and then place the ETU-SYNC between the source and the encoder.
- When connecting an AT-ETU-SYNC to the OmniStream encoder, the encoder EDID should be learned and copied to the AT-ETU-SYNC.
- When AES67 is enabled, the Ethernet interface cannot be set to “Not Used”.
- **Pro only:** When streaming two video services over one Ethernet, only one session of AES67 is supported.

## Release Notes

### Version 1.2.4 (continued)

#### Known Issues

##### Encoder

- When a Lumens DC193 document camera is connected and powered-on, the output signal will drop for approximately one second.
- HDMI compatibility issue with Nintendo® Switch. Workaround: place AT-UHD-SYNC or AT-ETU-SYNC between the encoder and the decoder.

##### Decoder

- When using the external power supply, the unit will not connect to a PoE enabled Cisco Catalyst 2960-X.
- Switching to and from Video Wall mode, when operating HDCP 1.4 on dual-channel units, will take up to 15 seconds to display video.
- Video wall sizes larger than 8x8 are only supported through AMS or Velocity.
- Purple vertical lines may appear in the stream. Workaround: re-subscribe to the stream to fix the issue.
- Although Text Insertion, Logo Insertion, and Slate insertion are not supported when operating in Fast Switching mode, these configuration menus are still available through the web server.
- Single channel: When Fast Switching is enabled, output will be locked to 1080p60 and will scale and frame convert the incoming signal to match. This avoids renegotiation and allows source switching to be seamless.

#### Will Not Fix

##### General

- OmniStream Rev. B hardware will not support HDMI 2.0 or HDCP 2.2.
- Logo image is displayed at less than or equal to 30% of its original size, when output resolution is 3840x2160 @ 60 Hz (UHDp60).
- Support for single IR pass-through on the serial port 2 for AT-OMNI-112 (prior to hardware revision K) and AT-OMNI-111 (prior to hardware revision J).

##### Encoder

- **Pro only:** Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will trigger an alarm message.
- Dual 4Kp60 encoding requires dual PoE Ethernet feeds or external power supply.

##### Decoder

- Dual-channel decoders will not support HDCP 2.2.
- Will not convert BT.2020 to BT.709 (Rec.709).
- Fast switching is not supported when the incoming content is interlaced.
- Dual channel: When Fast Switching is enabled, output will be locked to 1080p30 and will scale and frame convert the incoming signal to match. This avoids renegotiation and allows source switching to be seamless.

## Release Notes

### Version 1.2.3

Features	<b>General</b> <ul style="list-style-type: none"> <li>Added support for AT-OMNI-111 Rev. J and AT-OMNI-112 Rev. K encoders.</li> </ul> <p>Main improvements:</p> <ol style="list-style-type: none"> <li>Firmware support for ID button on AT-OMNI-111 Rev. J.</li> <li>PCBA update for both single-channel and dual-channel encoders to improve HDMI Display Data Channel (DDC) behavior.</li> </ol> <ul style="list-style-type: none"> <li>Added support for IR pass-through on serial port 1 for AT-OMNI-112 Rev. K and AT-OMNI-111 Rev. J.</li> </ul>
Bug Fixes	<b>Encoder</b> <ul style="list-style-type: none"> <li>None.</li> </ul> <b>Decoder</b> <ul style="list-style-type: none"> <li>Fixed an issue where the output signal dropped randomly when Fast Switching mode was enabled in Video Wall mode.</li> </ul>
Known Issues	<b>General</b> <ul style="list-style-type: none"> <li>Logo image is displayed at less than or equal to 30% of its original size, when output resolution is 3840x2160 @ 60 Hz (UHDp60).</li> <li>When an Apple TV is the source, Dolby Vision will not pass the correct colors to a TCL-brand TV.</li> </ul> <b>Encoder</b> <ul style="list-style-type: none"> <li>When using older DirecTV STB models that are having incompatibility issues, an ETU-SYNC must be used. Use the ETU-SYNC to learn the encoder EDID (not the display) and then place the ETU-SYNC between the source and the encoder.</li> <li>HDMI inputs must be disconnected and the unit rebooted before the firmware upgrade process can be initialized.</li> <li>When AES67 is enabled, the Ethernet interface cannot be set to "Not Used".</li> <li><b>Pro only:</b> When streaming two video services over one Ethernet, only one session of AES67 is supported.</li> <li>When a Lumens DC193 document camera is connected and powered-on, the output signal will drop for approximately one second.</li> </ul> <b>Decoder</b> <ul style="list-style-type: none"> <li>Although Text Insertion, Logo Insertion, and Slate insertion are not supported when operating in Fast Switching mode, these configuration menus are still available through the web server.</li> <li>When using the external power supply, the unit will not connect to a PoE enabled Cisco Catalyst 2960-X.</li> <li>Switching to and from Video Wall mode, when operating HDCP 1.4 on dual-channel units, will take up to 15 seconds to display video.</li> <li>Video wall sizes larger than 8x8 are only supported through AMS or Velocity.</li> <li>Purple vertical lines may appear in the stream. Workaround: re-subscribe to the stream to fix the issue.</li> </ul>

## Release Notes

### Version 1.2.3

#### Will Not Fix

##### General

- OmniStream Rev. B hardware will not support HDMI 2.0 or HDCP 2.2.
- Dual-channel decoders will not support HDCP 2.2.
- **Pro only:** Certain hardware revisions only support one channel of IR pass-through. This applies to both encoders and decoders; single-channel and dual-channel versions.

##### Encoder

- **Pro only:** Early OmniStream Pro units cannot process dual UHDp50/60 inputs and will display an alarm stating this event. Contact Atlona Technical Support for details.
- Dual 4Kp60 encoding requires dual PoE Ethernet connections or an external power supply.

##### Decoder

- Will not convert BT.2020 to BT.709 (Rec.709).
- Fast Switching is not supported when the input resolution is interlaced.



## Release Notes

### Version 1.2.2

#### Features

##### General

- OmniStreams now support Dolby Vision HDR (license required) up to 3840x2160 @ 60Hz 12-bit 4:2:0.
- Local time zone can now be updated.

##### Dual-Channel Pro Encoder

- Encoders can now be daisy chained with only one Encoder being connected to the network switch.

##### Decoder

- Fast Switching Option added
  - Single channel: Output will be locked to 1080p60 and will scale and frame convert the incoming signal to match. This avoids renegotiation and allows source switching to be seamless.
  - Dual channel: Output will be locked to 1080p30 and will scale and frame convert the incoming signal to match. This avoids renegotiation and allows sources to switch seamlessly.

#### Bug Fixes

##### Encoder

- HDCP snow no longer displays before content when manually switching sources.
- Images no longer blink on displays when the FEC matrix values set to greater than or equal to 7x7.
- Audio now mutes when manually selecting slate insertion.
- LG TVs no longer displays a green screen when the source (**e.g.** channel change on DTV STBs) is lost.
- The video generator will now display when sub sampling is 4:2:0.
- Logo image quality no longer drops when set to stretch mode on 3840x2160.
- HDMI input loss no longer occurs after long use with a 4096x2160 distribution amplifier.
- Unit now rolls to normal mode when the system is set to 802.1x/no RADIUS server.
- Host and model names are not correctly displayed on the web server.
- Signal is no longer lost when connected to a DirecTV H25 STB.
- Text insertion is now configurable on Rev. B units.
- Video mode no longer displays as a configuration option when the unit does not support it (**e.g.** Rev. B units).
- Audio no longer has crackling noises when connected to an OmniStream 238.
- AES67 grand master election now works when the PTP domain is greater than zero.
- Audio no longer drops when connected to a DirecTV C51-100 STB.
- Alarm status now correctly displays as active/inactive.
- NTP server connections no longer cause time drift.
- Improved stability of HDMI signal with DirecTV H24 when resolution is changed.
- Telnet now allows for enabling and disabling AES67 functionality.

##### Decoder

- Improved video wall functionality to display simultaneously across all outputs when selected.
- LG TVs no longer display a green screen when the source is lost.
- LG OLEDs no longer display a green screen randomly.
- Unit now passes HDCP non-compliant signals to LG 65UH9500.
- 3840x2160 @ 60Hz slate insertion no longer results in incorrect colors displaying.
- Unit no longer loses HDCP handshake with Sony displays.
- Automatic slate insertion now works correctly.
- HDCP snow no longer displays before content when manually switching sources.
- Unit now rolls to normal mode when the system is set to 802.1x/no RADIUS server.
- Video no longer blinks when auto slate insertion is enabled on 3840x2160 @ 60Hz.

## Release Notes

### Version 1.2.2 (cont.)

Bug Fixes (cont.)	<b>Decoder</b> <ul style="list-style-type: none"> <li>• HDCP 2.2 no longer shows in configuration when the unit does not support it.</li> <li>• System will now correctly change to 1920x1080 when selected in video wall mode.</li> <li>• AES67 audio now correctly passes when connected to a QSC Core 250i system.</li> <li>• Unit will no longer incorrectly loses its static IP and reverts to DHCP mode.</li> <li>• Analog audio now passes even when HDMI port gets disconnected.</li> <li>• Audio no longer drops when switching between AES67 and RTP streams.</li> <li>• Single Channel - Default configuration now correctly populates the multicast address on IP input 1 and IP input 3.</li> </ul>
Known Issues	<b>General</b> <ul style="list-style-type: none"> <li>• Text, slate, and logo insertion still display in the configuration during Fast Switching mode, even though those options are not supported.</li> <li>• OmniStream Rev. B hardware will not support HDMI 2.0, HDCP 2.2</li> <li>• Logo image size is limited to 30% or less in size when on 3840x2160 @ 60Hz.</li> <li>• OmniStream Pro series only supports one channel of IR pass through.</li> <li>• When Apple TV is the source, Dolby Vision will not pass the correct colors to a TCL TV.</li> </ul> <b>Encoder</b> <ul style="list-style-type: none"> <li>• When using older DirecTV STB models that are having incompatibility issues, an ETU-SYNC must be used. Use the ETU-SYNC to learn the Encoder EDID (not the display) and then place the ETU-SYNC between the source and the Encoder.</li> <li>• HDMI inputs must be removed and the unit rebooted before the firmware upgrade process can be initialized.</li> <li>• When AES67 is enabled, the Ethernet interface cannot be set to "Not Used".</li> <li>• Pro units only - When streaming two video services over one Ethernet, only one session of AES67 is supported.</li> <li>• When a Lumens DC193 document camera is connected and turned on, output signal will drop for approximately one second.</li> </ul> <b>Decoder</b> <ul style="list-style-type: none"> <li>• HDCP 2.2 is not supported on dual-channel decoders.</li> <li>• When using the external power supply, the unit will not connect to a PoE enabled Cisco Catalyst 2960-X.</li> <li>• Switching to and from video wall mode when operating HDCP 1.4 on dual-channel units will take up to 15 seconds to display video.</li> <li>• Video wall configuration for sizes larger than 8x8 is only supported through AMS or Velocity video wall configurators.</li> <li>• Streams occasionally need to be re-subscribed to if the rare occurrence of purple vertical lines appear on the stream.</li> </ul>
Will Not Fix	<b>Encoder</b> <ul style="list-style-type: none"> <li>• <b>Pro only:</b> Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will display an alarm stating this. Contact Atlona Technical Support for details.</li> <li>• Dual 4Kp60 encoding requires dual PoE Ethernet connections or an external power supply.</li> </ul> <b>Decoder</b> <ul style="list-style-type: none"> <li>• Will not convert BT2020 to REC.709.</li> <li>• Fast Switching is not supported when the input resolution is interlaced.</li> </ul>

## Release Notes

### Version 1.2.1

#### Features

##### OmniStream Pro

- HDMI 2.0 support.
- HDCP 2.2 support.
- Video mode - optimizes video quality to support motion-video content.
- Supports High Dynamic Range (HDR): HDR10 and HLG.
- IEEE 802.1X Device Authentication.
- Full RS-232 over IP pass-through using TCP Proxy.
- Audio over IP: Simultaneous AES67 and OmniStream RTP audio pass-through.
- IR Support: IR pass-through from encoder to decoder (upstream) or from decoder to encoder (downstream).
- Encoder Grouping.
- Video Wall Telnet API - Enables third-party control for configuring video walls using Telnet protocol.
- High Bit Rate Audio - Supports pass-through of high bit rate audio formats: Dolby® Atmos®, Dolby True HD, DTS®:X, and DTS-HD Master Audio™

##### OmniStream R-Type

- \* **NOTE:** R-Type units already support HDMI 2.0, HDCP 2.2, HDR, AES67, and IR. Release 1.2.1 adds the following support:
  - Full RS-232 over IP pass-through using TCP Proxy.
  - Video Wall Telnet API - Enables third-party control for configuring video walls using Telnet protocol.
  - High Bit Rate Audio - Supports pass-through of high bit rate audio formats: Dolby® Atmos®, Dolby True HD, DTS®:X, and DTS-HD Master Audio™

#### Bug Fixes

##### Encoder

- For HDCP sources that are only capable of HDCP 1.4, the encoder HDCP mode must be forced to HDCP 1.4.
- Setting AppleTV to “Best Available” audio results in no audio detected during movies.
- Slate insertion doesn’t work on the encoder.
- While HDR does pass correctly, the encoder’s HDR indicator doesn’t show HDR for some sources, such as Xbox One S/X, PS4 Pro, and DirecTV C61K-700.
- To prevent VQ issues, Kaleidescape Strato should be set to “Use External Scaler” mode and set to 1080p. This prevents menus from rendering in UHD.
- HBR audio formats (Dolby® Atmos®, Dolby TrueHD, DTS®:X, DTS-MA) were temporarily removed from encoder EDIDs due to decoder issue #3761.
- DirecTV STBs loses 720p as an option, forcing the use of 1080i for non-UHD channels.
- 1080i VQ needs improvement.
- Video generator on encoder doesn’t work.
- IR pass-through does not function.
- Web server window for alarm descriptions is sometimes too small, resulting in truncated alarm messages.
- VESA resolutions should not be available for R-Type.
- **Pro only:** When both sessions are mapped to the same interface, audio from session 2 is corrupted.

## Release Notes

### Version 1.2.1 (cont.)

#### Bug Fixes

##### Decoder

- If dual sources are connected, one is UHDp60, and only one PoE is connected, the second input should not work and an alarm should be raised stating that dual PoE is needed.
- Output drops when decoder is configured for ultra-low latency mode and UHD output.
- HBR audio formats (Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-MA) aren't supported on the decoder.
- **Pro only:** Pausing audio on PC sources sometimes triggers audio redundancy switching.
- Infrequent drops with some 720p inputs.
- Partial fix: Video wall size is limited to 5x5 within the web server. Larger wall sizes can be created over Telnet/API or using the Velocity Video Wall configurator.
- **Pro only:** Polarity of analog input is wrong.
- Enabling logo on the decoder with a UHDp60 source causes the output to blink and the unit becomes inaccessible.
- Compressed audio from Kaleidescape Strato is unstable. The issue is not seen with PCM audio from the Strato.
- Automatic bit depth reduction based on the sink's EDID is done without any indication to the user.
- Decoder audio downmix is missing "auto" mode which should function based on the EDID of the connected device.
- Unit requires one extra reboot after an upgrade to get the decoder audio downmixing to work properly.
- **R-Type only:** IR should only be allowed on serial port 2, but is also allowed on serial port 1.

#### Known Issues

##### General

- OmniStream Rev. B hardware does not support the video generator option. This will be added in a future release.
- OmniStream Rev. B hardware does not support text insertion. This will be added in a future release.
- OmniStream Rev. B hardware does not support HDMI 2.0.
- OmniStream Rev. B hardware does not support HDCP 2.2.
- OmniStream Dual-Channel Decoders do not support HDCP 2.2.
- Logo Insertion: When using UHDp60 video, the logo image size must not exceed 30% of the UHD image size.
- AES67 with QSC: When streaming AES67 audio from an encoder to a QSC DSP (110f, 250i, or 500i), the QSYS sometimes stops seeing SDP messages from the encoder. Work-around: Hardcode the multicast address on the AES67 block.
- AES67 output gets corrupted due to a different GM (grandmaster) clock taking over. To prevent this issue, manually set one of the encoders to be the GM clock.
- **Pro only:** Both single-channel and dual-channel OmniStream encoders and decoders, regardless of hardware revision, are limited to one channel of IR pass-through.

## Release Notes

### Version 1.2.1 (cont.)

#### Known Issues

##### Encoder

- Manual switching sometimes causes brief HDCP snow before displaying content.
- Output keeps blinking when the FEC matrix values are set to greater than or equal to 7x7.
- For LG TVs, if source is lost, the decoder causes the TV to show a green screen.  
\* **NOTE:** this is often seen when doing channel changes on DTV STBs.
- Video generator does not work when color subsampling is set to 4:2:0.
- **Pro only:** When streaming two video services over one Ethernet, only one AES67 session is supported.
- Visual quality of logo is degraded when setting the logo in “stretch” mode when using UHD image size.
- When the unit is configured for 802.1X, and no RADIUS server is detected, the encoder does not revert to normal mode.
- Cannot set the Ethernet interface to “not used” if AES67 is enabled on the session.

##### Decoder

- Units that use the external power supply won’t connect to some switches with PoE enabled.  
\* **NOTE:** This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches.
- “Green screen” is displayed on LG 65UH9500 when the encoder input is disconnected.
- No video output on LG 65UH9500 with HDCP disabled on decoder.
- Decoder slate insertion for UHDp60 sources results in incorrect colors.
- On rare occasions, when subscribing to a source, the decoder outputs vertical purple lines. Re-subscribing corrects the issue.
- On rare instances, the decoder loses HDCP handshake with Sony TV and displays “ip\_inputX cannot be decoded” alarm. A decoder reboot recovers the signal.
- Automatic slate insertion doesn’t work on the decoder.
- When the unit is configured for 802.1X, and no RADIUS server is detected, the decoder does not revert to normal mode.

#### Will Not Fix

##### Encoder

- **Pro only:** Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will display an alarm stating this. Contact Atlona Technical Support for details.
- Dual 4Kp60 encoding requires dual PoE Ethernet connections or an external power supply.

##### Decoder

- AES67 output gets corrupted due to a different GM (grandmaster) clock taking over. To prevent this issue, manually set one of the encoders to be the GM clock.

## Release Notes

### Version 1.2.0

#### Features

- General availability for OmniStream R-Type hardware - AT-OMNI-5xx.
- Limited availability for OmniStream Pro hardware - AT-OMNI-1xx.  
» Contact Atlona support to discuss installing 1.2.0 on OmniStream Pro hardware.
- HDMI 2.0 including support for inputs up to UHDp60 12-bit 4:4:4.
- HDCP 2.2 support.
- Supports HDR pass-through – HDR10 and HLG (including for video walls).
- New “Video” system mode optimized for video-based content.
- AES67 audio support.
- PCM downmix on the encoder.
- Simultaneous AES67 and OmniStream RTP audio (pass-through) output.

#### Bug Fixes

##### Encoder

- Encoder cannot detect 4:2:0 inputs.
- Encoder is missing support for encoding using 4:2:0 chroma subsampling.
- Compatibility issues with Mozilla Firefox web browser.
- RTCP value set to True causes the network interface to crash.
- Encoder doesn't see any input from Axis M3045v camera.
- Audio formats other than PCM, Dolby Digital (AC-3), and DTS aren't recognized by the encoder.
- Noticeable A/V sync issues caused by OmniStream, with compressed audio sources making the symptom the most obvious.
- mDNS response doesn't include the unit model name.
- Units allow installation of incorrect firmware files, risking bricked units.
- **Pro only:** Encoder group status change doesn't trigger any notification.
- 720p EDIDs should not include 1080i.
- Units allow import of config files from other models, risking bricked units.
- Default EDIDs for Video mode should support 1080i.
- mDNS response is missing a unique non-changing ID.

##### Decoder

- Decoder should show an alarm if the input cannot be processed.
- Display sometimes shows HDCP snow, even with non-HDCP sources.
- Audio/video sync off slightly under normal circumstances.
- Decoder reporting an inaccurate framerate alarm for p59.94 sources.
- Audio downmix on the decoder not working properly.
- Decoder should automatically reduce bit depth as needed based on sink EDID.
- Auto resolution mode should be improved to pass supported resolutions.untouched, and scale unsupported resolutions.
- **Pro only:** Polarity of analog input is wrong.
- Default resolution mode for Factory Reset should be set to Auto.

## Release Notes

### Version 1.2.0

#### Known Issues

##### Encoder

- Manual switching sometimes causes brief HDCP snow before displaying content.
- For HDCP sources that are only capable of HDCP 1.4, the encoder HDCP mode must be forced to HDCP 1.4.
- Setting AppleTV to “Best Available” audio results in no audio detected during movies.
- For LG TVs, if source is lost, the decoder causes the TV to show a green screen.  
\* **NOTE:** this is often seen when doing channel changes on DTV STBs.
- Slate insertion doesn’t work on the encoder.
- While HDR does pass correctly, the encoder’s HDR indicator doesn’t show HDR for some sources, such as Xbox One S/X, PS4 Pro, and DirecTV C61K-700.
- To prevent VQ issues, Kaleidescape Strato should be set to “Use External Scaler” mode and set to 1080p. This prevents menus from rendering in UHD.
- HBR audio formats (Dolby® Atmos®, Dolby TrueHD, DTS®:X, DTS-MA) were temporarily removed from encoder EDIDs due to decoder issue #3761.
- DirecTV STBs loses 720p as an option, forcing the use of 1080i for non-UHD channels.
- 1080i VQ needs improvement.
- Video generator on encoder doesn’t work.
- IR pass-through does not function.
- Web server window for alarm descriptions is sometimes too small, resulting in truncated alarm messages.
- VESA resolutions should not be available for R-Type.
- **Pro only:** When both sessions are mapped to the same interface, audio from session 2 is corrupted.
- If dual sources are connected, one is UHDp60, and only one PoE is connected, the second input should not work and an alarm should be raised stating that dual PoE is needed.

##### Decoder

- Unit with external PSU won’t connect to PoE enabled Cisco Catalyst 2960-X.
- LG 65UH9500 displays a green screen when there is no input to the system.
- No video output on LG 65UH9500 with HDCP disabled on decoder.
- Output drops when decoder is configured for ultra low latency mode, UHD output, and video wall is disabled.
- HBR audio formats (Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-MA) aren’t supported on the decoder.
- **Pro only:** Pausing audio on the PC source sometimes triggers audio redundancy switch.
- Infrequent drops with some 720p inputs.
- AES67 input on the decoder isn’t stable.  
\* **NOTE:** The AES67 from the encoder works fine with other AES67 receivers.
- Videowall semi-automatic configuration currently limited to 5x5.
- Decoder slate insertion for UHDp60 sources results in incorrect colors.
- On rare occasions, when subscribing to a source, the decoder outputs vertical purple lines. Re-subscribing corrects the issue.
- On rare instances, the decoder loses HDCP handshake with Sony TV and displays “ip\_inputX cannot be decoded” alarm. A decoder reboot recovers the signal.
- Automatic slate insertion doesn’t work on the decoder.



## Release Notes

### Version 1.2.0

#### Known Issues

##### **Decoder (continued)**

- Enabling logo on the decoder with a UHDp60 source causes the output to blink and the unit becomes inaccessible.
- Compressed audio from Kaleidescape Strato is unstable. The issue is not seen with PCM audio from the Strato.
- Automatic bit depth reduction based on the sink's EDID is done without any indication to the user.
- Decoder audio downmix is missing "auto" mode which should function based on the EDID of the connected device.
- Unit requires one extra reboot after an upgrade to get the decoder audio downmixing to work properly.
- IR should only be allowed on serial port 2, but is also allowed on serial port 1.



## Release Notes

### Version 1.1.0

#### Features

- Video wall with bezel compensation added to decoder.
- Encoder grouping with auto input switching between group members.
- Slate (full-screen picture) insertion.
- Scrolling ticker insertion.
- EDID export / import

#### Bug Fixes

- #1558 - Decoder is slow to rejoin stream after reboot.
- #2092 - No progress indicator while importing configuration information.
- #2099 - Video blinks whenever the output volume is changed.
- #2117 - Debug file takes multiple clicks to download.
- #2205 - Toggling analog input/output causes video/audio loss.
- #2211 - Setting analog audio output to "disabled" doesn't work.
- #2225 - Stability issues with Roku 4 Ultra as a source.
- #2270 - Unable to assign a single ip\_input to multiple outputs.
- #2280 - Manipulation of HDMI cable on one input causes the other input to blink.
- #2291 - HDCP status LED on decoder sometimes shows incorrect state.
- #2303 - Add telnet/SSH/RS232 notification for HDMI input disconnection.
- #2365 - Decoder Ethernet interface becomes unresponsive if speed is set to 100 Mbps.
- #2375 - Missing volume up/down commands for telnet/SSH/RS232.
- #2403 - Missing EDID with maximum resolution of 2560x1600p60.
- #2404 - 1080i status was incorrectly shown as 540i.
- #2405 - Encoder video generator doesn't work with bitrate set to 898 Mbps or higher.
- #2407 - HDCP status LED on decoder sometimes shows incorrect state.
- #2410 - OmniStream sometimes reporting incorrect MAC to switch ARP requests.
- #2450 - Slow access to Telnet/SSH due to improper DNS settings from DHCP server.
- #2505 - Decoder redundancy switches to ip\_input even if it is disabled, causing the decoder to continuously jump between inputs.
- #2555 - Missing ability to disable username/password authentication on Telnet (port 23 and port 2323) interfaces.
- #2573 - Telnet/SSH/RS232 not reporting compressed audio sources properly.
- #2574 - Telnet/SSH/RS232 responses for AudioBackupMode command are incorrect.
- #2576 - Telnet/SSH/RS232 ActiveAudioInput command reports incorrectly.
- #2623 - Changing IP input parameters triggers erroneous redundancy switch.
- #2626 - Serial Use 1 left blank after resetting to factory defaults.
- #2647 - Changing volume of a compressed source results in corrupted output.
- #2667 - Cannot use AuxSourceX command to assign serial\_port1 to session 1.
- #2668 - Resetting to default settings does not enable scrambling on the decoder.
- #2671 - Resetting to default settings does not configure the ip\_input multicast values for audio multicasts.
- #2731 - Buttons option present in the web server of single channel encoder.
- #2852 - Internal cooling fans run at full speed, are very loud, and do not reduce speed until a reboot.
- #3328 - Encoder factory reset does not properly map audio inputs.

## Release Notes

### Version 1.1.0

#### Bug Fixes

- #3342 - Default EDID is missing Dolby TrueHD.
- #3408 - Analog output left channel polarity is reversed.
- #3794 - Some logo width values cause the logo to not be displayed.
- #3826 - Logo is lost when output is physically moved to a different TV.

#### Known Issues

- #2210 - Units that use the external power supply won't connect to some switches with PoE enabled.  
 \* **NOTE:** This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches.
- #2246 - HDCP snow is produced on some Sony TVs.  
 \* **NOTE:** The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it.
- #2286 - Green screen on LG 65UH9500 when encoder input is disconnected.
- #2293 - No video output on LG 65UH9500 with HDCP disabled on decoder.
- #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.
- #2637 - Clicking save on the HDMI output section sometimes causes video/audio to drop.
- #3645 - Output drops when decoder is configured for ultra-low latency mode and UHD output.  
 \* **NOTE:** To prevent this issue, set the output resolution to less than or equal to 1080p or change the decoder latency mode to "sub frame latency".
- #3764 - Large FEC matrix configuration sometimes causes video drop-outs.
- #3821 - Pausing audio on PC sources sometimes triggers audio redundancy switching.
- #3878 - Slate insertion API commands for Telnet/SSH/RS232 are missing.
- #3895 - Automatic slate insertion is slow.
- #3912 - Audio formats, other than PCM, Dolby Digital (AC-3), and DTS don't work.
- #3900 - Audio sources that don't properly flag bit depth are indicated as "N/A", and should be displayed as "Unknown".
- #3909 - When scrolling ticker text begins, small dots appear at the beginning of the text string.
- #3940 - Video wall inch/mm configuration isn't implemented properly.
- #3949 - When part of an encoder group, pressing the Display button, on the front panel, doesn't make the encoder active.
- #3957 - Auto-slate doesn't work with encoder group auto-switching.
- #3985 - Encoder groups don't work properly with Session 2 on dual-channel encoders.
- #3995 - Slate on encoder doesn't work for UHDp30 sources.

#### Will not fix

- #3655 - Decoder connected to a 100 Mbps interface can't decode video.

## Release Notes

### Version 1.0.5

Features	<ul style="list-style-type: none"> <li>• None</li> </ul>
Bug Fixes	<ul style="list-style-type: none"> <li>• #2448 - Extron controller causes OmniStream units to fail.</li> <li>• #2855 - Updating single-channel units with dual-channel firmware (or dual-channel units with single-channel firmware) will irreparably damage the unit.</li> <li>• #2891 - Temperature information is missing from the debug file.</li> </ul>
Known Issues	<ul style="list-style-type: none"> <li>• #1558 - Decoder is delayed by approximately 1 minute when sending an IGMP join request after a reboot.</li> <li>• #2291 - HDCP GUI indicator is incorrect / backwards.</li> <li>• #2205 - Toggling analog audio on/off causes loss of both video and audio until the unit is rebooted.</li> <li>• #2210 - Units that use the external power supply won't connect to some switches with PoE enabled.               <ul style="list-style-type: none"> <li>* <b>NOTE:</b> This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches.</li> </ul> </li> <li>• #2225 - Signal dropouts have been observed when using the Roku 4 Ultra as a source.</li> <li>• #2246 - HDCP snow is produced on some Sony TVs.               <ul style="list-style-type: none"> <li>* <b>NOTE:</b> The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it.</li> </ul> </li> <li>• #2286 - "Green screen" observed on LG 65UH9500 when the encoder input is disconnected.</li> <li>• #2292 - Standby / cool-down options not working properly through RS-232.</li> <li>• #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.</li> <li>• #2365 - Both the single-channel (AT-OMNI-121) and dual-channel (AT-OMNI-122) will not respond if the interface speed is set to 100 Mbps.</li> </ul>
Will not fix	<ul style="list-style-type: none"> <li>• None</li> </ul>

## Release Notes

### Version 1.0.4

#### Features

- Supports single-channel units (AT-OMNI-111 and AT-OMNI-121).
- Added ability to define custom RS-232 commands using JSON.

#### Bug Fixes

- #2638 - 1080i status incorrectly displayed as 540i.
- #2395 - OmniStream sometimes reports the incorrect MAC address to switch ARP requests.
- #2398 - Encoder video generator now works with the bitrate set to 898 Mbps or higher.
- #2445 - Slow access to Telnet / SSH due to improper DNS settings from DHCP server.
- #2681 - RTCP causes issues with some units.
- #2835 - In SSH, the SessionScrambleX sta command output no longer returns a blank value.
- #2837 - In SSH, both the SessionScrambleKeyX sta / DescrambleKeyX sta commands no longer returns a blank value when no scrambling key is configured.
- #2839 - In Telnet / SSH, the AudioActiveStatusX sta command now displays the proper status.

#### Known Issues

- #1558 - Decoder is delayed by approximately 1 minute when sending an IGMP join request after a reboot.
- #2205 - Toggling analog audio on/off causes video and audio loss until the unit is rebooted.
- #2210 - Units that use the external power supply won't connect to some switches with PoE enabled.
  - \* **NOTE:** This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches.
- #2225 - Signal dropouts have been observed when using the Roku 4 Ultra as a source.
- #2246 - HDCP snow is produced on some Sony TVs.
  - \* **NOTE:** The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it.
- #2286 - "Green screen" observed on LG 65UH9500 when the encoder input is disconnected.
- #2291 - HDCP GUI indicator is incorrect / backwards.
- #2292 - Standby / cool-down options not working properly through RS-232.
- #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.
- #2365 - Both the single-channel (AT-OMNI-121) and dual-channel (AT-OMNI-122) will not respond if the interface speed is set to 100 Mbps.
- #2448 - Extron controller causes OmniStream units to fail.
- #2573 - In Telnet / SSH, the audio status for compressed sources is corrupted.
- #2647 - Changing the output volume of compressed sources causes the output to be corrupted.

#### Will not fix

- #2288 - Touching the HDMI connector to the decoder chassis will occasionally cause the decoder to reboot.
  - \* **WORKAROUND:** Connect all devices to a common ground plane.
- #2813 - Occasionally, after performing a firmware update, setting the decoder output to anything other than "Input" causes a loss of the output signal.
  - \* **WORKAROUND:** Perform a factory reset and reconfigure all settings.

## Release Notes

### Version 1.0.0

Features	<ul style="list-style-type: none"> <li>• Factory firmware</li> </ul>
Bug Fixes	<ul style="list-style-type: none"> <li>• None at this time</li> </ul>
Known Issues	<ul style="list-style-type: none"> <li>• #1558 - Decoder is delayed approximately 1 minute in sending an IGMP join request after a reboot.</li> <li>• #2205 - Toggling analog audio on/off causes video and audio loss until the unit is rebooted.</li> <li>• #2210 - Encoders/decoders that use the (optional) external power supply won't connect to some switches with PoE enabled.               <ul style="list-style-type: none"> <li>* <b>NOTE:</b> This issue has been seen on Cisco Catalyst, but is not seen on Cisco SG300</li> </ul> </li> <li>• #2225 - Signal drops when Roku 4 Ultra is used as a source.</li> <li>• #2246 - HDCP "snow" will be displayed on some Sony displays.               <ul style="list-style-type: none"> <li>* <b>NOTE:</b> The unit will typically recover automatically. If the unit does not recover, save the decoder configuration 2 to 3 times will resolve the issue.</li> </ul> </li> <li>• #2286 - "Green screen" is displayed on LG 65UH9500 when the encoder input is disconnected.</li> <li>• #2288 - Touching the HDMI connector to the decoder chassis will occasionally cause the decoder to reboot.</li> <li>• #2292 - Standby / cooldown options not working properly for RS-232.</li> <li>• #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.</li> </ul>