ZyPer Management Platform Release Notes

Software 3.2.40113

May 15th, 2024

Revision History

Date	Version	Fixes/Changes
August 29th , 2023	3.2.39244	General Availability release
August 31st, 2023	3.2.39244	Updated Doc with Clear Cache notes for 2.5.3 upgrades
October 3rd, 2023	3.2.39335	Added ZyPErUHD 60 WP support, various fixes to redundancy Accounts/Roles
October 10th 2023	3.2.39362	Updated GA version – Fix for ZyPerUHD60 one Encoder to many Decoders
November 6th 2023	3.2.39465	Updated GA version – Fix for polling on ZyPerXS devices and add fsync call to force write to disk before rename
December 6th 2023	3.2.39546	Update GA version – Fix for Removed ZyPer login on upgrade and GUI authentication log crash.
April 8th 2024	3.2.39797	Updated release notes with information on known time issue for updates. Section 7-10
April 17th 2024	3.2.40047	Update GA version – Fixes included are for ZyPer4K expansion board issues
May 15th 2024	3.2.40113	Updated GA version – Fixes for 12GSDI and releasing ZyperUHD60 5.7.1

1. Supported Platforms

ZyPer Management Platform

- ProServer on **Ubuntu v22.04**
- Simply NUC (Rev E) on **Ubuntu v20.04**
- ProServer on **Ubuntu v16.0.4**
- Intel NUC (Generation 2 Rev C and Generation 3 Rev D) on **Ubuntu v16.0.4**
- VMWare ESXi appliance on **Ubuntu v16.04**

ZyPer Management Platform GUI web interface

- Google Chrome

ZyPer Encoders and Decoders

- ZyPer4K HDMI 2.0 encoders and decoders
- ZyPerXR HDMI 2.0 encoders and decoders
- ZyPerXS HDMI 2.0 encoders and decoders
- ZyPerXS Wall Plates HDMI 2.0 encoders and decoders
- ZyPer4K Netgear Module encoders
- ZyPerUHD encoders and decoders
- ZyPerUHD Wall Plate encoders
- ZyPerUHD Dante encoders
- ZyPerUHD60 HDMI 2.0 encoders and decoders (Not compatible with Existing ZyPerUHD devices)
- ZyPerUHD60 HDMI 2.0 Dante encoders and decoders (Compatible with ZyPerUHD60 non-Dante devices)
- ZyPer4K 12GSDI / HDMI 2.0 encoders
- **(New)** ZyPerUHD60-2 HDMI 2.0 encoders and decoders (Not compatible with Existing ZyPerUHD devices)
- **(New)** ZyPerUHD60-2 HDMI 2.0 Dante encoders and decoders (Compatible with ZyPerUHD60 non-Dante devices)
- **(New)** ZyPerUHD60 HDMI 2.0 Wall plate encoders (Compatible with ZyPerUHD60 decoders)

NOTE: On the UHD60-2s, these devices do not support any update package prior to 5.2.

WARNING: Installing older firmware update files on ZyPerUHD60-2 devices will cause the units to become inoperative.

2. New Features

Server

- Support for ZyPerUHD60-2 Encoder
- Support for ZyPerUHD60-2 Decoder
- Support for ZyPerUHD60-2 Dante Encoder
- Support for ZyPerUHD60-2 Dante Decoder
- Support for ZyPerUHD60 Wall Plate encoder

- New disconnect all connections command

GUI

- Support for ZyPerUHD60-2 Encoder for source and source grid panels.
- Support for ZyPerUHD60-2 Decoder for source and source grid panels.
- Support for ZyPerUHD60-2 Dante Encoder for source and source grid panels.
- Support for ZyPerUHD60-2 Dante Decoder for source and source grid panels.
- Support for ZyPerUHD60 Wall plate Encoder for source and source grid panels.

Device

- ZyPerUHD60-2 Encoder
- ZyPerUHD60-2 Encoder
- ZyPerUHD60-2 Dante Encoder
- ZyPerUHD60-2 Dante Decoder
- ZyPerUHD60 Wall Plate Encoder

Bug Fixes in this release

- Resolved multiple issues in this version see section 4 "Issues resolved"

3. End of Support

- **No Longer Supported -** Gigabyte NUC (Generation 1 Rev A) on Ubuntu v14.04.2
- **No Longer Supported -** VMWare ESXi appliance on Ubuntu v14.04.2

4. Issues Resolved

Component	Issue	Other
MP GUI – Source and Display Device Details	Down arrows missing from Drop-downs	
MP GUI - Source Grid	Config Tab - Video Port - Can Duplicate entries in the port selection drop down	
MP GUI - Source Grid	EDID filename - Attempting to select saving the EDID creates a pop-up box off the screen too far to the left	
MP GUI – Source – Join Config	Join configs become corrupted when GUI sessions on separate machines are opened simultaneously. Recommended not to open a second browser if your site has a lot of join configurations saved.	
MP GUI - Authenticate Button	Removal of the Authenticate button was done to avoid confusion on enabling "backend" security mode.	
MP GUI – Account Login	Accounts with no roles assigned cannot logout.	
MP GUI – Device Grid, Source and Display – ZyPerUHD Update	Due to the size of the ZyPerUHD update package, the package would fail transfer to the server and the update would fail as a result.	

MP Server - Sessions	Cleaned up websocket/phpSession closing sequence.
MP Server – Zones	Disconnecting Displays from Zones causes the server to hang
MP Server - OS	Add fsync call to force write to disk before rename
MP Server - Server	Fix for polling on ZyPerXS devices
MP Server - Redundancy	Accounts and Roles were not redundant between Primary and Secondary servers. After failover the new Primary server would lack the account information and settings.
ZyPerUHD60	Encoders connected to one-to-many Decoders sends unnecessary commands that will cause video to fail on the decoders
ZyPerUHD60	Fixes for UHD60 encoder and decoders now support 1500 MTU for all packets Max length. Fixes also for UHD60 decoder flicker to Idle on new joins
ZyPer4K – Expansion Boards	ZyPer4K products were not being discovered with their corresponding expansion boards on the encoder models during restart or network loss
ZyPer4K – Expansion Boards	ZyPer4K expansion boards now have a feature to force the board to a certain expansion which transcends resets and power resets.

5. Issues Outstanding

Component	Issue	Workaround
ZyPer4K HDMI 2.0 12G SDI	SDI video reports a resolution that the decoder scales down instead of up in genlock scaled	No workaround is available at this time.
ZyPer4K HDMI 2.0	Fast Switched joins at 480I/576I display video in an improper ratio horizontally	No workaround is available at this time.
ZyPer4K HDMI 2.0	ZyPer4K Charlie - Encoder - Incorrect FPS status (cosmetic) under 420 color formats	No workaround is available at this time.
ZyPer4K HDMI 2.0 Dual HDMI	ZyPer4K Encoder Dual HDMI input - Using an Apple 4K source, UHD 60 YUV 420 8bit video is not seen on the loop out or on the decoder display	No workaround is available at this time.
ZyPer4K HDMI 2.0 Analog Expansion	If there is an active HDMI connection to the encoder and nothing is connected to the S-video port, the analog cable status shows connected with the last S-video resolution.	No workaround is available at this time.
ZyPerUHD	ZyPerUHD - HDCP is not reported on the UHD encoders. Also, it allows video traffic to flow to devices that do not support the HDCP version used.	Restart or reboot the encoder to gain the correct information.
ZyPerUHD	ZyPerUHD - Decoder - UHD 60 8 bit 420 - When connecting a UHD60 encoder to a Decoder with a display that has only 1080 support, when rebooting the device, it does not always return video	After about two minutes the video comes back.

ZyPerUHD	There is a known issue with ZyPerUHD video walls above 3X3. Changes to an active video wall of sizes larger than 3X3 cause fluctuations in the video under all screens of the wall for up to 5 minutes before stabilizing.	This only happens on a modification to the video wall configurations. Unjoining all screens of the video wall with the disconnect to the video wall clears all the video. Then changes to the wall's config can be made, followed by a rejoining of the encoder to the wall.
ZyPerUHD60 - Decoder	Video wall 2 rows by 13 randomly fails to show video on one or more displays	No workaround is available at this time.
ZyPerUHD60 - Decoder	The device is reporting that it is sending video at 4096 on a 2560 max resolution monitor	Forcing a resolution in the GUI Display Grid or CLI for the decoder to 2560 60 FPS will work around this issue.
MP Server – Redundancy 22.04	Redundancy fails on the 22.04 ProServer	No workaround is available at this time.
MP Server – Scaled Streams	Encoder videoScaledStream stays enabled even when it is not used in Multiview mode	By un-joining all the other video connections involving the encoder that you are trying to connect with will clear this state. Then re-join the encoder to the same decoder in fast-switched mode.
MP Server - Save System config	Some system configurations like presets are not saved out of the system config.	No workaround is available at this time.
MP Server - Save System config	Some commands are saved out of order like Multiview "create" and "set" commands	No workaround is available at this time.
MP Server - NUC and ProServer	If the MP is powered on and is set for DHCP but the Switch or Switch connection is not up, the server will fail to get the DHCP address once it comes back online	A reboot of the server will allow it to get the DHCP address.
MP Server Downgrade - Video Wall	If a downgrade from 2.3 to 2.2 is done, decoders assigned to video walls will be unassigned.	Use Revert if a downgrade is needed to 2.2
MP GUI – General Session	Upgrading from 2.5.3.X to 3.X will require a cache clear of the browser before getting the login screen.	Clearing the Brower cache will fix this issue.
MP GUI – General Session	If a User leaves the browser window for from 15 seconds to a minute the session will sometimes kick the user back out to the login screen	The user will need to log back into the GUI
MP GUI - Multiview	When removing an encoder that is assigned to multiple Multiview windows in the same configuration, the video will not be removed until the encoder is removed from all windows	Deleting the window will need to be done in the API to remove the video from the proper display window.
MP GUI -Multiview	The Encoder Window, sound, and status are not indicated under the ZMP GUI Multiview config. The icon for the sound source of the Multiview does not show	Checking the API is required to see the sound source for the Multiview config.

	active sound if the window is selected for sound source and saved.	
MP GUI -Multiview	Edit menu- The pattern button still resizes when you click on the bottom 3rd of the button when in a Multiview single panel	Click the resized button to access the drop-down menu.
MP GUI - Source	On occasion, the custom config containing "disconnect" actions will show no actions after saving the config.	Close the browser and restart it if this gets into this state.
MP GUI – Source -Join-Config	Join configs may be missing after an upgrade.	Reverting the Server will also restore the join configs.
MP GUI - Display Grid	Export extracts text "IdleImage" from the idle image field and puts it in the column	No workaround is available at this time.
MP GUI - Preview	The preview video has vertical lines in the video on some encoders.	No workaround is available at this time.
MP GUI – TLS Panel	Setting TLS mode to either enabled or disabled results in a "Network request failed" message, though the command takes on the ZMP	No workaround is available at this time.
MP – Accounts	Password minDays setting is not enforced	No workaround is available at this time.

6. Known Limitations

ZyPerXS HDMI 2.0

Component	Limitation	Workaround
Encoder	No Overlay is available for this product.	Working as Designed
Encoder-Decoder	HID USB is available only on this product, USB is not compatible with ZyPer4K HDMI 2.0 units.	Working as Designed

ZyPer4K HDMI 2.0

Component	Limitation	Workaround
Encoder - Display Port	Display port encoder: going from dp->hdmi AND res > 3840p30 takes 20s	None
Encoder – SDI	**Genlocked mode –** Audio is limited to 2 channel supports	None
Encoder - Analog	During connections using the VGA port on the expansion board, audio may not be available for the connection. This occurs one out of every 15 to 20 connects using the VGA port on this device.	We have found that resetting the port to HDMI and then back to VGA does resolve the issue.
Decoder	When swapping HDMI from ZyPer4K decoders with the HDMI unplugged for less than 5 seconds, the decoder fails to read the new EDID.	When power cycling or unplugging, wait 5 seconds before plugging the unit back in.
Decoder - Display port board	When Display port connections to a Monitor or TV are set to 3840 X 2160 60 FPS 8 bit 444, the video has been seen to stop and start again	To work around this problem, the following guidelines must be implemented to obtain

	after a link training has been established. It is not every time and in testing varies depending on particular environment variables as up to 1 out of every 5 link training events. The event itself is specific to a disconnect of the Display Port connection or power event of the endpoints.	reliable 3840 X 2160 60 FPS during these particular instances of fault. For a Genlocked connection, sources must be using reduced blanking timing, limiting pixel clock to 550MHz. Fast-switched connections may also be used as the method of joining the Encoder to the Decoder. The advanced timing command must be used to configure the decoder for use: set decoder *decoder_name*|*decoder_mac* display-advanced-timing sync-front-porch 48 2 sync-width 32 5 hsync-polarity auto vsync-polarity auto total-size 4000 2222
Multiview	Custom Multiview containing two windows above 2048x1080 fails to join the window to the decoder	None

ZyPerXS WP

Component	Limitation	Workaround
Encoder and Decoders	ZyPerXS Wallplates with Icron expansion boards for USB connections are not compatible with the ZyPer4K with Icrons	With updated Icrons cards on the ZyPer4K HDMI2.0 devices, this is now possible. However, the ZyPer4K devices must have the new Icron board.

ZyPerUHD

Component	Limitation	Workaround
Encoder - HDCP	HDCP, interlacing state, Bit sample, Color Space, and Color Format states may not report correctly on UHD encoders • HDCP status – May not report correctly • Interlacing State – Will always show "no" • Color Space – Will always report 444 • Color Format – Will Always report RGB Color bit depth –always reports 8-bit	None
Encoder -EDID	Under the Encoder information output, the EDID used for the encoder may not match the decoder it is joined to. This is part of the design, as the system will load an EDID that it feels is most compatible. This could be an EDID that is either stored in its database or from an active decoder that shares the encoder's connection.	Working as designed

Encoder - Dante	ZyPerUHD encoders with the Dante expansion if HDCP is disabled MacBook video will not negotiate	None
Decoder - Scaling	When the UHD Decoder is downscaling from UHD 3840 X 2160 60 420 8 bits to 1080P 60 on a display, if a reboot (power cycle or restart command) occurs to the Decoder the Display will not return video.	To recover from this state the device needs to be rejoined to display video once more.
Decoders - CEC off|on	It has been found that on some Samsung displays, the CEC "on" command will not return the monitor to an active state. One monitor that experienced this issue was a Samsung 4K UN40JU6500. To activate the TV after encountering this event, a power on must be done.	A power Cycle of the TV is required
Decoders - Sleep mode	When using the sleep mode feature to set the display to sleep (regardless of the decoder connections) displays require a 10-second window if the user wants to disable this mode.	A power reset of the Decoder will be required
Decoder - Independent Audio routing	Joins of Audio between the encoder and the decoders or changes in the audio to the decoder will cause a 1 to 2 second video interruption. This is because of an internal modification of this connection.	None
Decoder - Audio Limitation	The audio for the Decoder's HDMI and Analog out port is limited to only one source Encoder	None
Encoder/Decoder - Independent IR routing	Due to the implementation of independent IR joins from device to device. We are no longer able to receive IR from the device to the server.	None
Encoder/Decoder - Resolution Support	Resolution Support for ZyPerUHD does not support 4096 resolutions and will not produce resolutions at 3840 X 2160 50 FPS/60 FPS. The ZyPerUHD encoder will not recognize any video above 3840 X 2160 60 FPS YUV 420, 8 bits (in either bit rate or color format).	None
Encoder/Decoder - RS232 Configuration and routing	Changes to the RS232 configuration to support the endpoint-to-endpoint communication require the devices to be restarted. Changes to the baud rate, connection endpoints, and other rs232 communication will restart the device.	It is no longer required to reset the endpoint for device-to-device communication, only when going to or from the device to the server does the device reset. RS232 config changes still reboot the device when made.

ZyPer GUI

Component	Limitation	Workaround
Join Config	Under the join configurations for UHD or U60 encoders and decoders. If a connection is made for audio and the decoders follow video is set to true, no audio connection will be sent. This happens with individual audio connections with no video defined.	Through the API the join audio connection can be made.
Upgrade	After upgrading to 2.3 and above, the connection tooltips under the Display Panel Icons show only video connected.	A refresh of the GUI will show all connections on the Display Panel Icons

Preview - Thumbnail	When starting Thumbnail videos, sometimes the icons show a pinwheel instead.	A stop and start of the thumbnail video by clicking on the Icon will remedy this issue. Alternatively, a refresh of the GUI will show all the videos enabled.
Video wall	If the name of a Decoder is changed and the video wall that contains said decoder is then opened for editing, the Decoder will no longer be present under the configuration.	After the Decoder name is changed but before the video wall is opened for edit, a refresh can be done. Then the video wall will contain the Decoder with the changed name.

ZMP Redundancy and VMWare

Component	Limitation	Workaround
MP with dual NICs	Setting the Management Interface (eth1) on a ProServer or a dual NIC NUC ZMP device to an IP not accessible to the originating ZyPer Management Platform Source machine could cause an inability to access the Management port after it is set.	To correct this, the user should enter the ZyPer Management Platform under the "Video-Network" IP from a device on that network and correct the Management NIC interface address.
MP Redundancy	Banners, Presets and Join Configurations are not redundant between servers	The user will need to set up the Join config on both servers, Presets and Banner files can be copied from the primary server to the secondary under the /srv/ftp/files folder accessible through SFTP and guest account.
MP Redundancy	The following settings under all account config for the accounts have to be set the same on each server • authMode • concurrentSessionsMax • idleLogout • onThreeFailures • password	Theses settings will need to be set on each server and should match to ensure that they are consistent on failover.
MP Redundancy	The two-factor authentication is not supported under redundant server configurations. The two-factor authentication is bound per server. Fail over servers will take any code and allow access.	No workaround to this issue
MP Redundancy	Account Locking and unlocking is local to the server and changes to the locking state will not be carried over to the fail-over server.	Changes will need to be made to both servers for the account.

ZMP Security limitations

Component	Limitation	Workaround
ZMP Server – Session Expires	When InitialExpire is enabled, the user is forced to choose a password with a minimum length even if minLen=NA	None

ZMP Server – TLS	Currently, TLS is unable to be configured in a redundant server environment. Current support is for Single Server implementations.	None

7. Current Device Firmware and Device Compatibility

Current Device Firmware

Device	File version
ZyPer4K HDMI2.0	4.1.2.9
ZyPerXS/XR/WallPlates HDMI2.0	2.0.0.0
ZyPer Netgear Encoder Module	4.0.0.6
ZyPerUHD Encoders and Decoders	5.7.1
ZyPerUHD Wallplate Encoders	5.7.1
ZyPerUHD Dante Encoders	5.7.1
ZyPerUHD60 Encoders and Decoders	5.7.1
ZyPerUHD60 Dante Encoders and Decoders	5.7.1

Firmware Compatibility

ZyPer4K HDMI 2.0, ZyPerNG, ZyPerXS/XR and ZyPerXSWP

Endpoint Firmware	MP 2.5.1	MP 2.5.2	MP 2.5.3	MP 3.0	MP 3.1	3.2
ZyPer4K 4.1.0	X					
ZyPer4K 4.1.2	X	X	X			
ZyPer4K 4.1.2.1	X	X	X			
ZyPer4K 4.1.2.9			X	X	X	X
ZyPerNG 4.0.0.6	X	X	X	X	X	X
ZyPerXS/XR 1.2.0.2	X					
ZyPerXS/XR 1.3.2.0	X					
ZyPerXS/XR 1.3.2.4	X	X				
ZyPerXS/XR/ WallPlate 1.5.0.1		X	X	X		
ZyPerXS/XR/ WallPlate 1.5.0.6			X	X		
ZyPerXS/XR/ WallPlate 2.0.0.0				X	X	X

ZyPerUHD60 support begins at update package 1.21 for E0 and D0 units.
ZyPerUHD60 Dante support begins at update package 5.0 for E1 and D1 units.
ZyPerUHD60 E2, D2 and E2 Dante, D2 Dante support begins at update package 5.3.
For Firmware updates to decrypt properly, the time on the server should be closely in sync to the current time. If the time is prior the decryption key time the update will fail.

Endpoint Firmware	MP 2.5.1	MP 2.5.2	MP 2.5.3	MP 3.0	MP 3.1	MP 3.2
ZyPerUHD zuhd_1.16.up1	X	X				
ZyPerUHD zuhd_1.17.up1	X	X				
ZyPerUHD zuhd_1.18.up1	X	X				
ZyPerUHD zuhd_1.19.up1		X*	X			
ZyPerUHD zuhd_1.21.up1			X	X		
ZyPerUHD zuhd_5.0.up1				X	X	
ZyPerUHD zuhd_5.2.up1						X
ZyPerUHD zuhd_5.3.up1						X
ZyPerUHD zuhd_5.4.up1						X
ZyPerUHD zuhd_5.5.up1						X
ZyPerUHD zuhd_5.6.up1						X
ZyPerUHD zuhd_5.7.up1						X
ZyPerUHD zuhd_5.7.1.up1						X
* Hot Fix Only						

NOTE: On the UHD60-2s, these devices do not support any update package prior to 5.2.

WARNING: Installing older firmware update files on ZyPerUHD60-2 devices will cause the units to become inoperative.

Device Compatibility

Encoders

Device	Video	Multiview	Video Wall	Preview	Audio	Analog Audio	RS232	IR	USB
ZyPer4K HDMI 2.0	4K/XS/XR/WP	4K/XS/XR/WP	4K/XS/XR/WP	4K	4K/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/WP	4K
ZyPerXS Wall Plate Icron USB	4K/XS/XR/WP	4K/XS/XR/WP	4K/XS/XR/WP	N/A	4K/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/WP	WP*
ZyPerXS/XR HDMI 2.0	4K/XS/XR/WP	4K/XS/XR/WP	4K/XS/XR/WP	N/A	4K/XS/XR/WP	4K/XS/XR/WP	N/A	N/A	XR/XS/WP**
ZyPerXS Wall Plate Non-Icron USB	4K/XS/XR/WP	4K/XS/XR/WP	4K/XS/XR/WP	N/A	4K/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/WP	XS/XR/WP**
ZyPerNG	4K/XS/XR/WP	N/A	4K/XS/XR/WP	N/A	4K/XS/XR/WP	4K/XS/XR/WP	N/A	4K/WP	N/A

* With Icron USB
** Without Icron USB

Decoders

Device	Video	Multiview	Video Wall	Preview	Audio	Analog Audio	RS232	IR	USB
ZyPer4K HDMI 2.0	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/NG/XS/XR/WP	4K	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/NG/WP	4K
ZyPerXS Wall Plate Icron USB	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/NG/XS/XR/WP	N/A	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/NG/WP	4K/WP*

ZyPerXS/XR HDMI 2.0	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/NG/XS/XR/WP	N/A	4K/NG/XS/XR/WP	4K/XS/XR/WP	N/A	N/A	XR/XS/WP**
ZyPerXS Wall Plate Non-Icron USB	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/NG/XS/XR/WP	N/A	4K/NG/XS/XR/WP	4K/XS/XR/WP	4K/WP	4K/NG/WP	XS/XR/WP**

8. New CLI and API Additions, changes, and deletions

Additions

The following commands were added to support ZyPerUHD60 2 devices

Disconnect all commands added

- join none all video|analogAudio|hdmiAudio

ZyPerUHD60 commands used to change the ports (already present except for USB-C but listed below for reference).

- set device <deviceMac|deviceName> videoPort auto|hdmi|hdmiOptionalIn|displayPort|hdsdi|12gsdi|vga|component|composite|s-video|usbc

Commands to Manipulate the Dante settings for the ZyPerUHD60 Dante devices.

- join dante|none <decoderMac|decoderName> directDanteAudio
- join DanteCustEncBE DanteCustDec2C danteAudio
- set encoder <encoderMac|encoderName> danteAudioOut source analogAudio|hdmiAudioDownmix
- set decoder <decoderMac|decoderName> danteAudioOut source joinedAudio|none

Utility Port assignment for 2EA and 2DA Devices

set device UHD602EA-67 utilityPort dante|enabled

Deletions

No API command deletions in this release.

For more information on API command changes introduced in the ZMP v3.0 release, please see page 17 of this document.

9. Server and GUI Additions, changes, and deletions

Additions

ZyPerUHD60-2s

CLI Enhancement

Components: CLI, API, and GUI for support of the ZyPerUHD60-2s

Overview: In this version, we are introducing support for the ZyPerUHD60 Model 2s with the respected Dante Variants. The device features contain all the same functionality of the ZyPerUHD60 Model 0,1 Encoders and Model 1 Decoders with the below additional features.

Model 2 Encoders

- 1GB Utility Network port for device passthrough
- Additional HDMI input port
- USB-C input port for Charging, Input device, or Video input. (Cable specific, some cables do not support all three)
- Loop out Video port

To support the additions, the IR ports and RS232 port were moved to the front of the unit.

Model 2 Decoders

- 1GB Utility Network port for device passthrough

Dante Variants

- Dante Variants feature all of the above except the 1GB utility port is designated for Dante.
- 2EA and 2DA Variants have the ability to use the utility port for Dante-specific traffic.
    - If enabled for Dante the port must be connected to a network that has DHCP and is the network that Dante Traffic is present.
    - This is toggled with the below command

set device UHD602EA-67 utilityPort dante

    - To set the port back to a standard utility port run the below command

set device UHD602EA-67 utilityPort enabled

As a note, all Dante Variants 0EA, 1EA, 2EA, 1DA, and 2DA default as Dante Transmitters.

Current Model List for ZyPerUHD60s

At the bottom of the unit there is a Product Model number at the end of the number is the variant identifier

| Model	Description	Unique Ports	ZMP Product Description
0E*	ZyPerUHD60 Encoder	Separate 3.5mm analog in port	ZUHDENC60
0EA*	ZyPerUHD60 Encoder with Dante	Separate 3.5mm analog in port	ZUHDENC60A
1E	ZyPerUHD60 Encoder	Combined Analog In/Out Phoenix port, HDMI loop out	ZUHDENC60V2
1EA	ZyPerUHD60 Encoder with Dante	Combined Analog In/Out Phoenix port, HDMI loop out	ZUHDENC60V2A

| 2E	ZyPerUHD60 Encoder	Additional HDMI, USB-C video Input, additional Network Utility Port	ZUHDENC60V3
2EA	ZyPerUHD60 Encoder with Dante	Additional HDMI, USB-C video Input, additional Dante Network Port	ZUHDENC60V3A
1D	ZyPerUHD60 Decoder	Standard Decoder Ports	ZUHDDEC60
1DA	ZyPerUHD60 Decoder with Dante	Standard Decoder Ports	ZUHDDEC60A
2D	ZyPerUHD60 Decoder	Additional Network Utility Port	ZUHDDEC60V2
2DA	ZyPerUHD60 Decoder with Dante	Additional Dante Network Port	ZUHDDEC60V2A

*Limited Release
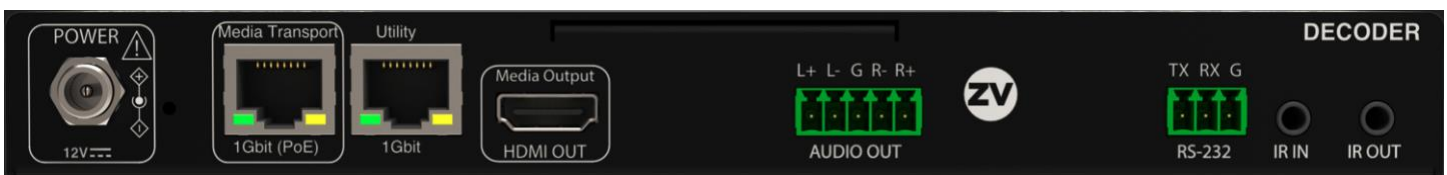
Operation and Appearance:
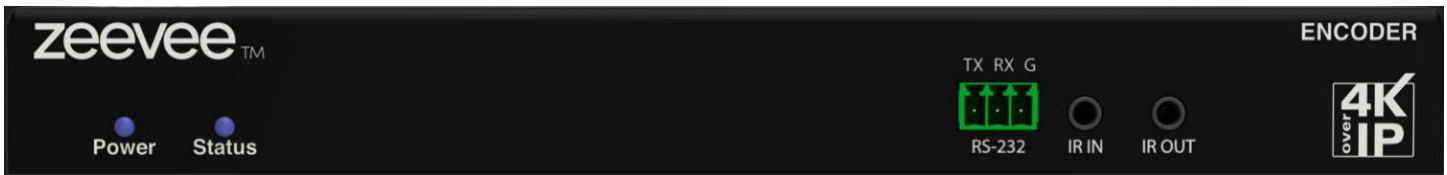
2E and 2EA
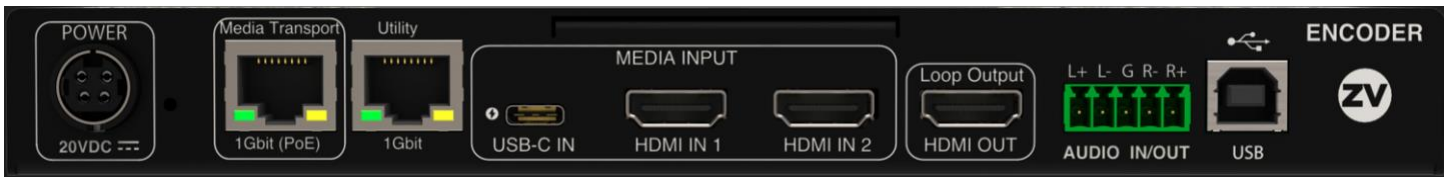
Front

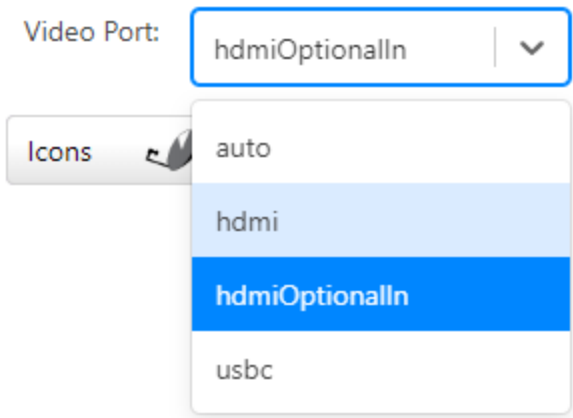**Back**

2D and 2DA

Front

Back

GUI

Source Panel – Device Details

Video Option Port settings for 2E and 2EA

Source Grid Changes

Video Option Port settings for 2E and 2EA

Options for Utility Port for 2EA and 2DA

- **Enable – Set this as a traditional Utility port**
- **Dante – Assigns this port for Dante**

Limitations: On the UHD60-2s, these devices do not support any update package prior to 5.2.

WARNING: Installing older firmware update files on ZyPerUHD60-2 devices will cause the units to become inoperative.

ZyPerUHD60 Wall Plate Encoder.

CLI

Components: CLI, API, and GUI for support of the ZyPerUHD60 Wall plates

Overview: In this version, we are introducing support for the ZyPerUHD60 Wall plate encoders. The device features contain the below features and are completely interop table to all ZyPerUHD60 decoders.

There is also a new Firmware update package 5.5 released as a base version for the wall plates when shipped.

- HDMI 2.0 Video Input
- USB-C Main USB-C
  - Video Input mode
  - USB-C Charging Mode – AC power required
  - USB-C Peripheral Mode
- USB-C Peripheral port
- RS232 Port (on Back of Unit)
- Push button for video port mode change
- Face Plate covers for alternative Black color wall plate.

Current Model List for ZyPerUHD60 wall plates

At the bottom of the unit there is a Product Model number at the end of the number is the variant identifier

Model	Description	Unique Ports	ZMP Product Description
E1W	ZyPerUHD60 Wall Plate Encoder	USB-C Video input	ZUHDENC60V2-W

Operation and Appearance:
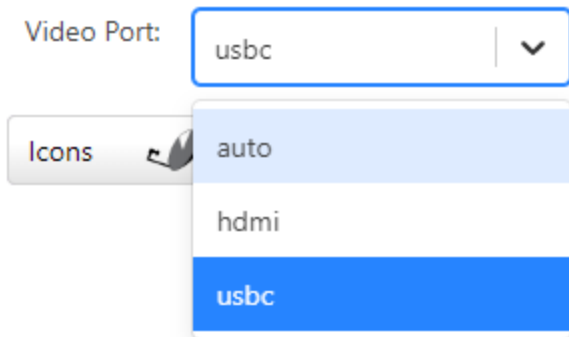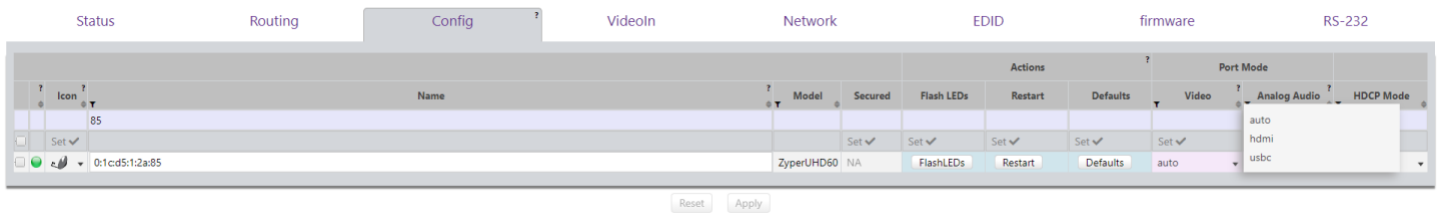
2E and 2EA

Front

Back

GUI

Source Panel – Device Details

Video Option Port settings for Wall plates

Source Grid Changes

Video Option Port settings for Wall Plate

10. Upgrading and Downgrading

Unique update files are required for each platform

Starting with release v3.0, the ZyPer MP update file will be available in five, platform-specific versions. Please use the correct version for the hardware platform being updated.

File name examples:
 ➢ ZyPerMP NUC computer: update_nuc_3.2.39546.zyper
 ➢ ZyPerMP Proserver: update_proserver_3.2.39546.zyper
 ➢ ZyPerMP VMware: update_vm_3.2.39546.zyper
 ➢ ZyPerMP Simply NUC: update_nuc2004_3.2.39546.zyper
 ➢ ZyPerMP ProServer 22.04: update_proserver2204_3.2.39546.zyper

Known issues with upgrading and downgrading

Affected Versions	Issue	Affected Hardware	Workaround
Downgrading to 2.2 from 2.3 GA and above	There is a known issue where the video wall decoders will become unassigned	All Platforms	Using the revert function to go back to 2.2 will avoid this issue. Use of revert is always preferred.
Upgrading from versions Prior to 3.0	After upgrading to 3.X and above, the browser will show a blank screen instead of a login prompt	All Platforms	Clearing the cache will resolve the issue

Other Notes: Beginning in 1.7.4 there is a saved file that includes the export from the database before an update. This file can be used to restore the database to the state it was in before the upgrade. The file is called: zyper.*zyperversion*.sql and resides on the ZMP under the folder: /srv/ftp/files. Where "zyperversion" is the version, the system was on before the upgrade.

For versions prior to 2.5.3, please follow the below upgrade path

Starting Version	Jump 1	Jump 2	Jump 3	Jump 4	Jump 5	Jump 6	Jump 7
1.1.X	1.3	1.6	1.7.4	2.1	2.3.1	2.5.3	3.2
1.2.X	1.3	1.6	1.7.4	2.1	2.3.1	2.5.3	3.2
1.3.X	1.6	1.7.4	2.1	2.3.1	2.5.3	3.2	
1.4.X	1.6	1.7.4	2.1	2.3.1	2.5.3	3.2	
1.5.2.X	1.6	1.7.4	2.1	2.3.1	2.5.3	3.2	
1.6.X	1.7.4	2.1	2.3.1	2.5.3	3.2		
1.7.4.X	2.1	2.3.1	2.5.3	3.2			
1.8	2.1	2.3.1	2.5.3	3.2			
2	2.1	2.3.1	2.5.3	3.2			
2.1	2.3.1	2.5.3	3.2				
2.1.1	2.3.1	2.5.3	3.2				
2.2	2.5.1	2.5.3	3.2				
2.3	2.5.1	2.5.3	3.2				
2.3.1	2.5.3	3.2					
2.4	3.0	3.2					
2.5	3.0	3.2					
2.5.1	3.1	3.2					
2.5.2	3.1	3.2					
2.5.3	3.2						
3.0	3.2						
3.1	3.2						

Upgrade and downgrade support for the following platforms of the management server

- ZMP Generation 2 and 3 NUCs (Rev C and Rev D 16.04)
- ZMP new Generation 4 NUCs (Rev E 20.04)
- VMware 16.04
- ProServer 16.04
- ProServer 22.04

Interface IP type and Internet state

- Interface IP Mode: Defines how the interface acquired its IP

- Internet Access Available? Defines whether the server can reach the outside internet

- INTEL NUC Celeron ZMP (Base Installed Version is 1.7.4.33922) Generation 2

(In the prior release notes this generation 2 was labeled Pentium, this was a type-o as this generation was a Celeron processor)

Version-prior upgrade	Interface IP Mode	Internet Access Available?	Result of upgrade and downgrade to and from this release
2.5.3.38647	DHCP	Yes	Passed
2.5.3.38647	DHCP	No	Passed
2.5.3.38647	STATIC	Yes	Passed
2.5.3.38647	STATIC	No	Passed
2.5.3.38647	Link Local	No	Passed
3.0.39043	DHCP	Yes	Passed
3.0.39043	DHCP	No	Passed
3.0.39043	STATIC	Yes	Passed
3.0.39043	STATIC	No	Passed
3.0.39043	Link Local	No	Passed
3.1.39170	DHCP	Yes	Passed
3.1.39170	DHCP	No	Passed
3.1.39170	STATIC	Yes	Passed
3.1.39170	STATIC	No	Passed
3.1.39170	Link Local	No	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	DHCP	No	Passed
3.2.39546	STATIC	Yes	Passed
3.2.39546	STATIC	No	Passed
3.2.39546	Link Local	No	Passed

- INTEL NUC Pentium ZMP (Base Installed Version is 1.7.4.33922) Generation 3

Version-prior upgrade	Interface IP Mode	Internet Access Available?	Result of upgrade and downgrade to and from this release
2.5.3.38647	DHCP	Yes	Passed
2.5.3.38647	DHCP	No	Passed
2.5.3.38647	STATIC	Yes	Passed
2.5.3.38647	STATIC	No	Passed
2.5.3.38647	Link Local	No	Passed
3.0.39043	DHCP	Yes	Passed
3.0.39043	DHCP	No	Passed
3.0.39043	STATIC	Yes	Passed
3.0.39043	STATIC	No	Passed
3.0.39043	Link Local	No	Passed
3.1.39170	DHCP	Yes	Passed
3.1.39170	DHCP	No	Passed
3.1.39170	STATIC	Yes	Passed

3.1.39170	STATIC	No	Passed
3.1.39170	Link Local	No	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	DHCP	No	Passed
3.2.39546	STATIC	Yes	Passed
3.2.39546	STATIC	No	Passed
3.2.39546	Link Local	No	Passed

- SIMPLY NUC Celeron ZMP (Base Installed Version is 2.4.37311) Generation 4

Version-prior upgrade	Interface IP Mode	Internet Access Available?	Result of upgrade and downgrade to and from this release
2.5.3.38647	DHCP	Yes	Passed
2.5.3.38647	DHCP	No	Passed
2.5.3.38647	STATIC	Yes	Passed
2.5.3.38647	STATIC	No	Passed
2.5.3.38647	Link Local	No	Passed
3.0.39043	DHCP	Yes	Passed
3.0.39043	DHCP	No	Passed
3.0.39043	STATIC	Yes	Passed
3.0.39043	STATIC	No	Passed
3.0.39043	Link Local	No	Passed
3.1.39170	DHCP	Yes	Passed
3.1.39170	DHCP	No	Passed
3.1.39170	STATIC	Yes	Passed
3.1.39170	STATIC	No	Passed
3.1.39170	Link Local	No	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	DHCP	No	Passed
3.2.39546	STATIC	Yes	Passed
3.2.39546	STATIC	No	Passed
3.2.39546	Link Local	No	Passed

- ProServer (Base Installed Version is 1.8.34703)

Version-prior upgrade	Interface IP Mode	Internet Access available?	Result of upgrade and downgrade to and from this release
2.5.3.38647	DHCP	Yes	Passed
2.5.3.38647	DHCP	No	Passed
2.5.3.38647	STATIC	Yes	Passed
2.5.3.38647	STATIC	No	Passed
2.5.3.38647	Link Local	No	Passed
3.0.39043	DHCP	Yes	Passed
3.0.39043	DHCP	No	Passed
3.0.39043	STATIC	Yes	Passed
3.0.39043	STATIC	No	Passed

3.0.39043	Link Local	No	Passed
3.1.39170	DHCP	Yes	Passed
3.1.39170	DHCP	No	Passed
3.1.39170	STATIC	Yes	Passed
3.1.39170	STATIC	No	Passed
3.1.39170	Link Local	No	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	DHCP	No	Passed
3.2.39546	STATIC	Yes	Passed
3.2.39546	STATIC	No	Passed
3.2.39546	Link Local	No	Passed

- VMWare ESXI Rev2 for 16.04 – (2.2 Initial Release)

Version-prior upgrade	Interface IP Mode	Internet Access available?	Result of upgrade and downgrade to and from this release
2.5.3.38647	DHCP	Yes	Passed
2.5.3.38647	STATIC	Yes	Passed
3.0.39043	DHCP	Yes	Passed
3.0.39043	STATIC	Yes	Passed
3.1.39170	DHCP	Yes	Passed
3.1.39170	STATIC	Yes	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	STATIC	Yes	Passed

- 22.04 ProServer (Base Installed Version is 3.0.39043)

Version-prior upgrade	Interface IP Mode	Internet Access available?	Result of upgrade and downgrade to and from this release
3.1.39170	DHCP	Yes	Passed
3.1.39170	DHCP	No	Passed
3.1.39170	STATIC	Yes	Passed
3.1.39170	STATIC	No	Passed
3.1.39170	Link Local	No	Passed
3.2.39546	DHCP	Yes	Passed
3.2.39546	DHCP	No	Passed
3.2.39546	STATIC	Yes	Passed
3.2.39546	STATIC	No	Passed
3.2.39546	Link Local	No	Passed

Appendix A New CamelCase Replaces Hyphenated Formatting

(Introduced in ZMP v2.2 release)

Overview

A major effort has been made in 2.2 to make the API more consistent, both input commands and resulting output. Backward compatibility was a critical goal of this effort whenever possible. There are two main mechanisms implemented to assist with backward compatibility:

- Deprecated commands: They will continue to work in 2.2 but will not be included in help or auto-complete.
- CamelCase or hyphenated commands: All commands can be entered either as camelCase or hyphenated. Only camelCase commands are in help and auto-complete.

The result is that all but a very few commands (e.g. *load encoderEdid* and audio-related parameters) from 2.1 will work in 2.2. However, there is some API output that has changed. While this is minimal, it may require some changes to third-party applications processing the output.

CamelCase Commands – 100% Backward Compatible

Commands in 2.1 are mostly hyphenated. A major change in 2.2 is to "default" all command tokens to camelCase. *However, all commands changed to camelCase are 100% backwardly compatible*:

- API Help will show only the camelCase command syntax
- API autocompletion will only complete camelCase syntax
- But: API input will still accept the hyphenated commands as defined in 2.1

For example, the following versions of the same command are accepted in 2.2:
set decoder dec1 display-size auto set decoder dec1 displaySize auto

CamelCase Show Output

Most of the output in 2.1 is already camelCase. However, to make the interface as consistent as possible, there are a few tokens that changed to camelCase in 2.2. In most cases, they are fairly obscure outputs but may require changes in third-party applications.

For more information on the updated CamelCase formatting, please reference the latest version of the *ZyPer Management Platform User Guide* found on our website's documentation page.

https://www.zeevee.com/documentation/