ZyPer Management Platform Release Notes

Software 2.5.2.37964

October 17, 2022

Revision History

Date	Version	Fixes/Changes
October 12, 2022	2.5.2.37947	General Availability release
October 14, 2022	2.5.2.37952	Removed redundant info, fixed text and formatting
October 17, 2022	2.5.2.37964	Modified Server versions

Contents

1. Supported platforms

ZyPer Management Platform

- VMWare ESXi appliance on Ubuntu v14.04.2
- VMWare ESXi appliance on Ubuntu v16.04
- ProServer on Ubuntu v16.0.4
- Gigabyte NUC (Generation 1 Rev A) on Ubuntu v14.04.2
- Intel NUC (Generation 2 Rev C and Generation 3 Rev D) on Ubuntu v16.0.4
- Simply NUC (Rev E) on Ubuntu v20.04

ZyPer Management Platform GUI web interface

- Google Chrome

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

Please note For ZMP versions before 2.5 please read the following:

For second-generation UHD devices, use the firmware update file with the ".bin2" file extension. First-generation and second By un-joining generation hardware can be determined by the device MAC address.

- For MAC addresses that begin with: 34:1b:22 - use the file extension .bin
- For MAC addresses that begin with: 6c:df:fb - use the file extension .bin2

In addition, the "ZyPerUHD Dante encoders" will still use the first-generation firmware updates.

2. New features

MP Server

- Support for ZyPerXS wall plates
- Enhanced CEC support for ZyPer XS and 4K Encoders

End point Devices

- New ZyPerXS Wall Plate Support
- New ZyPerXS/XR/WP Firmware

Bug Fixes in this release

- Resolved multiple issues in this version see section 3 "Issues resolved"

3. Issues resolved

Component	Issue	Other
ZMP Server	Force AnalogWay decoder to use v1 vid compression for compatibility	
ZMP Server	All CEC to encoders can use the name not just mac address	
ZMP Server	Setting the panels in the video wall causes the rcServer to crash	
ZMP Server	Corrected streamFps for both main and scaled streams in encoder status	
ZyPerUHD	ZyPerUHD Encoder HDMI cable swap takes 10 seconds for video to be restored on the display.	
ZyPerUHD	Fixed UHD update package version missing after device delete	
ZyPerXS/XR	Allow CEC for XS and XR with firmware 1.3.0.0 or greater	
ZyPer4K/XR/XS	CEC enabeld on z4k/xs encoders	
ZyPer4K/XR/XS	z4k-xs no longer tries to read uart0 info; z4k-xs cannot set rs232 params	

4. Issues Outstanding

Component	Issue	Workaround
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, I found that 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 and 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.
MP - Server	Encoder videoScaledStream stays enabled even when it was 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 – NUC	Power off via Shutdown command on the 1st generation NUCs does not shut down the server.	Manual power off on the NUC power button is required to shut it off.
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.
ZMP GUI – ZyPerUHD - Analog Audio	Cannot join HDMI audio separately in the GUI for ZyPerUHD devices. Instead of a Join, the GUI sends a disconnect for analog audio for the device.	Use the API to set audio separately.
ZMP GUI - Multiview	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 active sound if the window is selected for sound source and saved.	Checking the API is required to see the sound source for the Multiview config.
ZMP 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.
ZMP 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.
ZMP GUI - Upgrade - ZUHD	When you first upgrade from 1.7.4 or 1.8 the ZyPerUHD shows the Join config for Fast switched without the Audio. In 2.0 and 2.1 this is now required to get Audio to connect when using the GUI	Edit the Join config for the fast switch and add the audio to the configuration or select to reset to defaults to receive the new join config.
ZMP 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
Preview	The preview video has vertical lines in the video on some encoders.	No workaround is available at this time.
Save System config	Some system configurations like presets are not saved out of the system config.	No workaround is available at this time.
Save System config	Some commands are saved out of order like Multiview "create" and "set" commands	No workaround is available at this time.
MP – Does not obtain DHCP IP	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.

5. 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
Encoder - Decoder	If the ZyPer encoder or decoder is connected to the MP system network before the upgrade, the units will show up as decoders after the upgrade to 2.2 and above.	Delete the device and the units will be added back in properly. This is true for Decoders as well to gain full functionality.

ZyPer4K HDMI 2.0

Component	Limitation	Workaround
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 variant	When Display port connections to a Monitor or TV that are set to 3840 X 2160 60 FPS 8 bit 444, the video has been seen to stop and start again 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 end points.	To work around this problem, the following guidelines must be implemented to obtain reliable 3840 X 2160 60 FPS during these particular instances of fault. For 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
Encoder – SDI board variant	**Genlocked mode –** Audio is limited to 2 channel supports	None
Encoder - Analog Board variant	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.
Multiview	Custom Multiview containing two windows above 2048x1080 fails to join 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	This is being examined to see if they can become compatible at a later time.

ZyPerUHD

Component	Limitation	Workaround
Decoders	When the UHD Decoder is downscaling from UHD 3840 X 2160 60 420 8 bit 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	In addition, 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
Encoder	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	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
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

Audio Limitation	The audio for the Decoder's HDMI and Analog out port is limited to only one source of the Encoder's audio.	None
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
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 bit (in either bit rate or color format).	None
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 device to server does the device reset. RS232 config changes still reboot the device when made.

ZyPer GUI

Component	Limitation	Workaround
After Upgrade	After upgrading to 2.3, 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
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 a 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
ZMP 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.
ZyPer Management Platform – VMWare updates	Starting in the upgrades to 1.8, VM Hosted ZMPs require the use of the update_vm to upgrade to 1.8 and beyond. Reverting to 1.7X and 1.6 versions are possible through the use of the standard update_nuc file if needed.	None
VMware Redundancy Support	There is no support for virtual machines hosting the ZMP image under 1.8, only single-server deployments are supported.	None

6. Current Device Firmware and Device Compatibility

Current Device Firmware

Device	File version
ZyPer4K HDMI2.0	4.1.2.1 **(New)**
ZyPerXS/XR/WallPlates HDMI2.0	1.5.0.1 **(New)**
ZyPer Netgear Encoder Module	4.0.0.6
ZyPer4K HDMI1.4	2.10.x
ZyPerUHD Encoders and Decoders	1.18
ZyPerUHD Wallplate Encoders	1.18
ZyPerUHD Dante Encoders	1.18
ZyPerHD* Encoders	2.12.3
ZyPerHD* Decoders	2.12.4

* Release 2.3.x will be the final release to support ZyPerHD

Firmware Compatibility

Endpoint Firmware	MP 1.8	MP 2.1	MP 2.1.1	MP 2.2	MP 2.3	MP 2.3.1	MP 2.4	MP 2.5	MP 2.5.1	MP 2.5.2
ZyPer4K 3.5.2	X									
ZyPer4K 4.0.0.X	X	X	X							
ZyPer4K 4.0.1.0		X	X							
ZyPer4K 4.1.0				X	X	X	X	X	X	
ZyPer4K 4.1.2					X	X	X	X	X	X
ZyPer4K 4.1.2.1									X	X
ZyPerNG 4.0.0.6				X	X	X	X	X	X	X
ZyPerXS/XR 1.2.0.2					X	X	X	X	X	
ZyPerXS/XR 1.3.2.0								X	X	
ZyPerXS/XR 1.3.2.4								X	X	X
ZyPerXS/XR/ WallPlate 1.5.0.1										X
ZyPerUHD up1.1.5	X	X	X							
ZyPerUHD up1.1.6	X	X	X							
ZyPerUHD up1.1.7	X	X	X							
ZyPerUHD up1.1.8		X	X							
ZyPerUHD up1.1.9		X	X	X						
ZyPerUHD up1.1.10		X	X	X						
ZyPerUHD up1.1.11				X						

ZyPerUHD up1.1.12				X							
ZyPerUHD up1.1.13				X							
ZyPerUHD up1.1.14				X							
ZyPerUHD up1.1.15				X	X	X	X				
ZyPerUHD up1.1.16				X *	X *	X *	X *		X	X	X
ZyPerUHD up1.1.17				X *	X *	X *	X *		X	X	X
ZyPerUHD up1.1.18									X	X	X
* Hot Fix Only											

Note: 1.13 is the minimum level that should be applied to ZyPerUHD2 hardware due to hardware changes that will not be compatible with lower firmware versions.

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**

7. API Additions, changes, and deletions

Additions

ZyPerNG and ZyPerXS/XR productCode and productDescription

Support for XS Wallplate

Serveral Product IDs and Descriptions were added to support the XS wall plates

Example Config and Status outputs for encoder and decoder wall plates shown below

Encoder

device(34:1b:22:f0:4:d5);
  device.gen; model=Zyper4KWP, type=encoder, virtualType=none, name=34:1b:22:f0:4:d5, state=Up,
uptime=0d:4h:54m:29s, lastChangeId=444
  device.gen; productCode=Z4KENCCWPI, productDescription=Wallplate Encoder - HDMI 2.0, pid=0x1a

Decoder

  device.gen; model=Zyper4KWP, type=decoder, virtualType=none, name=34:1b:22:f0:5:26, state=Up,
uptime=0d:5h:52m:58s, lastChangeId=589
  device.gen; productCode=Z4KDECCWPI, productDescription=Wallplate Decoder - HDMI 2.0, pid=0x1b

Factory Default changes for RS232– Through the versions of ZMP 1.8 to 2.1, when ZyPerUHD devices are reset to default the following default baud rates will be applied.

- In 1.8 the default is 38400
- In 2.0 the default is 9600
- In 2.1 or later the default is 115200

Deletions

- No API command deletions in this release.

For more information on API command changes introduced in the ZMP v2.5 release, please see page 17 of this document.

8. Upgrading and Downgrading

Unique update files are required for each platform

Starting with release v1.8, the ZyPer MP update file will be available in three, platform-specific versions. Please use the correct version for the hardware platform being updated.

File name examples:

- ZyPerMP NUC computer: update_nuc_2.5.2.37964.zyper
- ZyPerMP Proserver: update_proserver_2.5.2.37964.zyper
- ZyPerMP VMware: update_vm_2.5.2.37964.zyper
- ZyPerMP Simply NUC: update_nuc2004_2.5.2.37964.zyper

Known issues with upgrading and downgrading

Affected Versions	Issue	Affected Hardware	Workaround
Moving to 1.7.4 from prior versions	The ZMP Generation 2 can only be upgraded through the service rcServer update command	ZMP NUC generation 2	The process is shown below From the ZMP OS command line perform the below commands. sudo service rcServer stop sudo service rcServer update /srv/ftp/files/update_...
Moving back to 1.7.4 after being upgraded	The ZMP Generation 3 comes installed with 1.7.4.33922 pre-installed and is upgradable. However, in a downgrade scenario after an upgrade, it cannot be downgraded to anything less than 1.8.34961	ZMP NUC generation 3	If downgrading, you will need to go to 1.8.34961
Downgrading to 1.7.1	Downgrading to the 1.7.1X version of the software will require the user to clear the cache to see the "Roles or Users" panel.	ZMP NUC generations 1 and 2	Clearing the browser Cache
Upgrading from a version prior to 1.6	There is reduced support for downgrading due to the extensive additions to the newer versions. In particular, the 1.3 to 1.4 versions require additional steps to recover from the change in database tables, fields, and features that are not present at the time of the original version.	ZMP NUC generations 1 and 2	1.3 and 1.4 versions should be upgraded to 1.6 before upgrading to the new releases
Upgrading to 1.6 and above	1.5.2 cannot upgrade to releases above 1.7.X through the GUI due to the file size limitations of the new release.	ZMP NUC generations 1 and 2	Upgrading to 1.6 first will allow GUI upgrades. Alternatively upgrading using the API will work as well.
Downgrading to 1.6 or 1.5.2	If downgrading to 1.5.2 or 1.6, you may have to clear the browser cache before logging back into the MaestroZ – An error may occur in the browser alerting you to a cert error, this was	ZMP NUC generations 1 and 2	Clearing the browser cache

	actually due to the login to the REST server (which is not present on versions prior 1.7.X), the browser may maintain this till the path is cleared		
Downgrading to 1.6 or 1.5.2	If downgrading to either 1.5.2 or 1.6, the user in MaestroZ will not be able to add zones. This is due to the "datetime" format change in the zone table when Maria DB replaces MySQL. Reverting keeps Maria DB thus the command sent to create the zone fails because of the format mismatch of the datetime.	ZMP NUC generations 1 and 2	N/A
Upgrading to 2.2	If ZyPer4K units exist on the network and are available to the MP before upgrading to 2.2, these devices will show up as decoders only and not contain all functionality.	All Platforms	Deleting these devices in the API or GUI will allow the system to discover them properly.
Upgrading to 2.2	When adding ZyPerXS units to an existing system it is necessary to set the Join Config to factory defaults in order to generate a valid Join Config for the XS units.	All Platforms	Resetting the Join config to factory defaults – will need to do this on a ZyPer4K Source Icon.
Downgrading to 2.2 from 2.3 GA	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.

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 1.8, please follow the below upgrade path

Starting Version	Jump 1	Jump 2	Jump 3	Jump 4	Jump 5	Jump 6
1.1.X	1.3	1.6	1.7.4	2.1	2.3.1	2.5.2
1.2.X	1.3	1.6	1.7.4	2.1	2.3.1	2.5.2
1.3.X	1.6	1.7.4	2.1	2.3.1	2.5.2	
1.4.X	1.6	1.7.4	2.1	2.3.1	2.5.2	
1.5.2.X	1.6	1.7.4	2.1	2.3.1	2.5.2	
1.6.X	1.7.4	2.1	2.3.1	2.5.2		
1.7.4.X	2.1	2.3.1	2.5.2			
1.8	2.1	2.3.1	2.5.2			
2.0	2.1	2.3.1	2.5.2			
2.1	2.3.1	2.5.2				
2.1.1	2.3.1	2.5.2				
2.2	2.5.1	2.5.2				
2.3	2.5.1	2.5.2				
2.3.1	2.5.2					
2.4	2.5.2					

2.5	2.5.2					
2.5.1	2.5.2					

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

- ZMP Generation 1,2 and 3 NUCs
- ZMP new Generation 4 NUCs
- VMware
- ProServer

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

- **ZMP GigByte NUC (Generation 1)**

Version Prior Upgrade	Interface IP Mode	Internet Access available?	Result of upgrade and downgrade to and from this release
2.3.37103	DHCP	Yes	Passed
2.3.37103	DHCP	No	Passed
2.3.37193	STATIC	Yes	Passed
2.3.37103	STATIC	No	Passed
2.3.37103	Link Local	No	Passed
2.3.1.37395	DHCP	Yes	Passed
2.3.1.37395	DHCP	No	Passed
2.3.1.37395	STATIC	Yes	Passed
2.3.1.37395	STATIC	No	Passed
2.3.1.37395	Link Local	No	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	DHCP	No	Passed
2.5.37610	STATIC	Yes	Passed
2.5.37610	STATIC	No	Passed
2.5.37610	Link Local	No	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	DHCP	No	Passed
2.5.2.37964	STATIC	Yes	Passed
2.5.2.37964	STATIC	No	Passed
2.5.2.37964	Link Local	No	Passed

- **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
2.3.37103	DHCP	Yes	Passed
2.3.37103	DHCP	No	Passed

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2.3.37193	STATIC	Yes	Passed
2.3.37103	STATIC	No	Passed
2.3.37103	Link Local	No	Passed
2.3.1.37395	DHCP	Yes	Passed
2.3.1.37395	DHCP	No	Passed
2.3.1.37395	STATIC	Yes	Passed
2.3.1.37395	STATIC	No	Passed
2.3.1.37395	Link Local	No	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	DHCP	No	Passed
2.5.37610	STATIC	Yes	Passed
2.5.37610	STATIC	No	Passed
2.5.37610	Link Local	No	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	DHCP	No	Passed
2.5.2.37964	STATIC	Yes	Passed
2.5.2.37964	STATIC	No	Passed
2.5.2.37964	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
2.3.37103	DHCP	Yes	Passed
2.3.37103	DHCP	No	Passed
2.3.37193	STATIC	Yes	Passed
2.3.37103	STATIC	No	Passed
2.3.37103	Link Local	No	Passed
2.3.1.37395	DHCP	Yes	Passed
2.3.1.37395	DHCP	No	Passed
2.3.1.37395	STATIC	Yes	Passed
2.3.1.37395	STATIC	No	Passed
2.3.1.37395	Link Local	No	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	DHCP	No	Passed
2.5.37610	STATIC	Yes	Passed
2.5.37610	STATIC	No	Passed
2.5.37610	Link Local	No	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	DHCP	No	Passed
2.5.2.37964	STATIC	Yes	Passed
2.5.2.37964	STATIC	No	Passed
2.5.2.37964	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
2.4.37311	DHCP	Yes	Passed
2.4.37311	DHCP	No	Passed
2.4.37311	STATIC	Yes	Passed
2.4.37311	STATIC	No	Passed
2.4.37311	Link Local	No	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	DHCP	No	Passed
2.5.37610	STATIC	Yes	Passed
2.5.37610	STATIC	No	Passed
2.5.37610	Link Local	No	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	DHCP	No	Passed
2.5.2.37964	STATIC	Yes	Passed
2.5.2.37964	STATIC	No	Passed
2.5.2.37964	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
2.3.37103	DHCP	Yes	Passed
2.3.37103	DHCP	No	Passed
2.3.37193	STATIC	Yes	Passed
2.3.37103	STATIC	No	Passed
2.3.37103	Link Local	No	Passed
2.3.1.37395	DHCP	Yes	Passed
2.3.1.37395	DHCP	No	Passed
2.3.1.37395	STATIC	Yes	Passed
2.3.1.37395	STATIC	No	Passed
2.3.1.37395	Link Local	No	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	DHCP	No	Passed
2.5.37610	STATIC	Yes	Passed
2.5.37610	STATIC	No	Passed
2.5.37610	Link Local	No	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	DHCP	No	Passed
2.5.2.37964	STATIC	Yes	Passed
2.5.2.37964	STATIC	No	Passed
2.5.2.37964	Link Local	No	Passed

VMWARE ESXi 14.04

- **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
2.3.37103	DHCP	Yes	Passed
2.3.37103	STATIC	Yes	Passed
2.3.1.37395	DHCP	Yes	Passed
2.3.1.37395	STATIC	Yes	Passed
2.5.37610	DHCP	Yes	Passed
2.5.37610	STATIC	Yes	Passed
2.5.2.37964	DHCP	Yes	Passed
2.5.2.37964	STATIC	Yes	Passed

Appendix A New Features

The following new features were added to the 2.5.2.37964 release to enhance several areas valued to our customers.

This Appendix provides a basic overview of the new features for this release, there is an explanation of most of the command set for each newly added item(s). However, for further details on these new features and a full listing of the command's subset, please reference the "ZyPer Management Platform User Manual" for the 2.5.2.37964 GA release.

New Device Support and Device Enhancements

ZyPerXS Wall Plate Support

Components: ZyPer Management CLI, ZyPer Server, ZyPer GUI

Overview: In this version we have introduced support for the ZyPerXS Wall Plate encoder and decoder units. These units support, all the features of the ZyPerXS with the addition of IR and RS232 support. The units come with options for Icron USB or standard HID USB. There are US and European versions of both encoder and decoder.

These new wall plates will be able to interop with other devices (see Device capability chart under section 6 of this document)

C**hanges to CLI:** Additions were made to the model, description and product codes to support the new wall plates.

Changes to the GUI: Additions to the GUI were made to support the ZyPerXS Wall Plates, the addition of a "WP" icon and Model numbers and a separate join config was added.

Operation: The ZyPerXS Wall plates are configured and paired to other devices in the GUI and through the CLI like all other supported devices. Standard commands have not been changed or altered for support of this device.

Appearance:

Under the GUI the devices will appear as shown
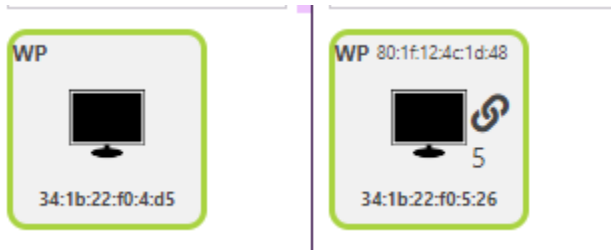
Under the CLI these devices appear as shown

Encoder
 device.gen; model=Zyper4KWP, type=encoder, virtualType=none, name=34:1b:22:f0:4:d5, state=Up, uptime=0d:4h:54m:29s, lastChangeId=444
  device.gen; productCode=Z4KENCCWPI, productDescription=Wallplate Encoder - HDMI 2.0, pid=0x1a

Decoder

  device.gen; model=Zyper4KWP, type=decoder, virtualType=none, name=34:1b:22:f0:5:26, state=Up, uptime=0d:5h:52m:58s, lastChangeId=589
  device.gen; productCode=Z4KDECCWPI, productDescription=Wallplate Decoder - HDMI 2.0, pid=0x1b

Limitations: Currently the Icron in the ZyPerXS Wall plate and the Icron in the ZyPer4K product are incompatible.

Appendix B 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 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 output 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/