Intelligent AV Distribution

ZyPer Management Platform Release Notes

Software 4.0.3.41103

April 8th, 2025

Revision History

Date	Version	Fixes/Changes
August 20th 2024	4.0.3.40468	GA version
October 31st 2024	4.0.3.40695	Updated GA version including ZyPer4K 12G SDI fixes
January 29th 2025	4.0.3.40888	Updated GA version with XSE Rev2 support and more 12G SDI fixes
February 23rd 2025	4.0.3.40922	Updated GA version with TR logging fix
April 8th 2025	4.0.3.41103	Updated GA version with XSE Icron toggle of Encoders and Decoders

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 Family

- ZyPer4K HDMI 2.0 encoders and decoders
- ZyPer4K 12GSDI / HDMI 2.0 encoders
- ZyPer4K Netgear Module encoders
- ZyPerXR HDMI 2.0 encoders and decoders
- ZyPerXS HDMI 2.0 encoders and decoders
- ZyPerXS Wall Plates HDMI 2.0 encoders and decoders
- ZyPerXSE HDMI 2.0 encoders and decoders
- ZyPerXSE HDMI 2.0 encoders and decoders with Dante and Icron USB
- NEW ZyPerXSE Rev 2 HDMI 2.0 encoders and decoders
- NEW ZyPerXSE Rev 2 HDMI 2.0 encoders and decoders with Dante and Icron USB

ZyPerUHD Family

- ZyPerUHD encoders and decoders
- ZyPerUHD Wall Plate encoders
- ZyPerUHD Dante encoders

ZyPerUHD60 Family (Not compatible with Existing ZyPerUHD devices)

- ZyPerUHD60 HDMI 2.0 encoders and decoders
- ZyPerUHD60 HDMI 2.0 Dante encoders and decoders
- ZyPerUHD60-2 HDMI 2.0 encoders and decoders
- ZyPerUHD60-2 HDMI 2.0 Dante encoders and decoders
- ZyPerUHD60 HDMI 2.0 Wall plate encoders

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.

- This release 802.1X support is not included for the ZyPerXSE endpoint firmware, but is available for ZyPerXS running 2.1.0.1. Plans to release 2.2.0.0 for XS/XR/XSE and XSWP endpoint firmware will be included in the following weeks which will include 802.1X support for these products.

- ***Certain USB hubs can cause power issues with the ZyPerXSE Rev1. This usually occurs when connecting the USB*** hub into the ZyPerXSE Rev1 after boot up. When this happens the Utility port flashes the link LEDs briefly (this is due to the excess power draw and is the best way to determine if the HUB could cause power issues on the device.

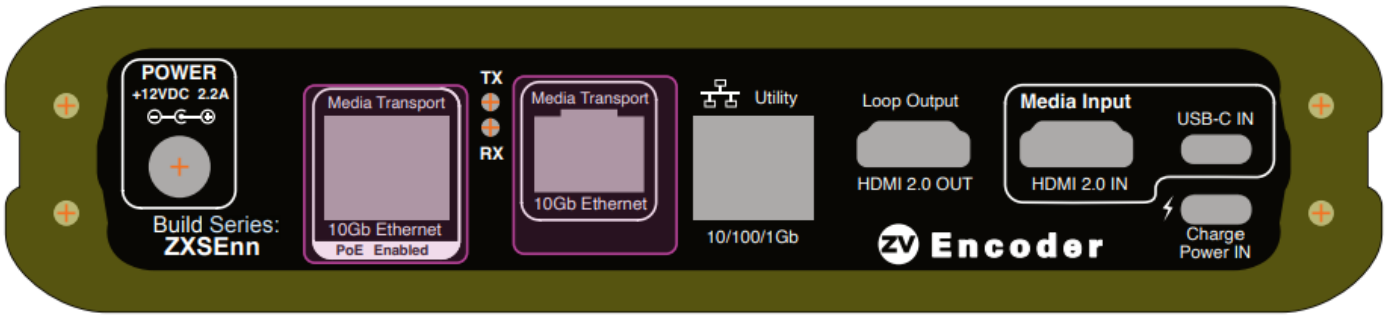
2. New Features

GUI, Server and Device

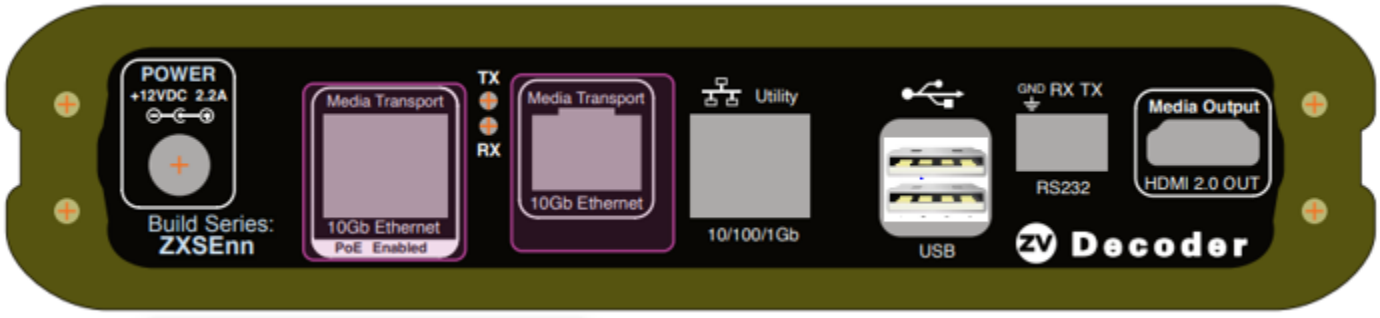
ZyPerXSE REV2 Encoder and Decoder support

In this updated 4.0.3 version the XSE Rev 2 devices are fully supported, these updated XSE devices feature a second USB port on both the encoder and decoder. The Encoder bottom USB-C port is used for connecting a USB-C charger from an outlet. This supplies power for the top port so it can charge devices up to 60 Watts. The Decoder USB now has two ports to connect USB A devices to the decoder.

Encoder



Decoder



New Firmware is also required to support the new product IDs created for the below devices.

Device	Description	PID
ZyPerXSE Encoder Rev2 Fiber	XSEv2 Encoder Fiber 2.0-USB Dante	**38**
ZyPerXSE Decoder Rev2 Fiber	XSEv2 Decoder Fiber 2.0-USB Dante	**39**
ZyPerXSE Encoder Rev2 Copper	XSEv2 Encoder Copper 2.0-USB Dante	**40**
ZyPerXSE Decoder Rev2 Copper	XSEv2 Decoder Copper 2.0-USB Dante	**41**

In addition the CLI will identify these devices as Rev 2s as shown in the Device Status and Config output

```
Zyper$ show device config c7
device(00:1c:d5:0c:09:c7);
 device.gen; model=Zyper4KXSE, type=encoder, virtualType=none, name=00:1c:d5:0c:09:c7, state=Up, lastChangeId=1
 device.gen; productCode=Z4KCXS-EAU, productDescription=XSEv2 Encoder Copper 2.0-USB Dante, SN=none

Zyper$ show device status c7
device(00:1c:d5:0c:09:c7);
 device.gen; model=Zyper4KXSE, type=encoder, virtualType=none, name=00:1c:d5:0c:09:c7, state=Up,
uptime=0d:4h:39m:3s, lastChangeId=535
 device.gen; productCode=Z4KCXS-EAU, productDescription=XSEv2 Encoder Copper 2.0-USB Dante, pid=0x28

Zyper$ show device config 1f
device(00:1c:d5:0c:0a:1f);
 device.gen; model=Zyper4KXSE, type=decoder, virtualType=none, name=00:1c:d5:0c:0a:1f, state=Up, lastChangeId=1
 device.gen; productCode=Z4KCXS-DAU, productDescription=XSEv2 Decoder Copper 2.0-USB Dante, SN=none

Zyper$ show device status 1f
device(00:1c:d5:0c:0a:1f);
 device.gen; model=Zyper4KXSE, type=decoder, virtualType=none, name=00:1c:d5:0c:0a:1f, state=Up,
uptime=0d:4h:35m:36s, lastChangeId=627
 device.gen; productCode=Z4KCXS-DAU, productDescription=XSEv2 Decoder Copper 2.0-USB Dante, pid=0x29
```

ZyPerXSE Icron Toggle feature

In this version we now have the ability to disable the Icron installed on ZyPerXSE encoder and decoders. The purpose is to enhance compatibility of installed units to function with ZyPerXSEs that do not have a Icron card or ZyPerXS devices that run strictly in HID USB mode. The functionality includes changes to the CLI in the form or a new set device command. Units without an Icron module will not be settable using the CLI command and post a warning explaining that the unit does not support this mode change. After this mode is changed on supported units, the device will be rebooted and assigned the selected operating mode. It can then be joined to the encoder/decoder of similar mode.

Command in the CLI to alter the Icron state

Set device *deviceName*|*MAC* usbType hid|full

hid=turns the Icron off
full=turns the Icron on

The change will reboot the unit and will interrupt video and audio

Under the “show device config” output of the device, the field device.optionalPorts, usb will show the state the device is currently in.

device.optionalPorts; mode=auto, video=none, usb=hid, analogAudio=yes, rs232=no, ir=no

At the bottom of the release note are the results of all interop testing on the supported platforms

ZyPer4K 12 SDI Enhancement to the initialization process

In this current release there were multiple fixes implemented to improve board initialization for the 12G SDI ZyPer4K units. This was vigorously tested in this release with a multitude of 12G SDI devices.

(Prior release 4.0.3.40695) ZyPer4K 12G SDI PID conversion command and processes

In this version of 4.0.3 we have added a conversion command and new Endpoint firmware for the 12G SDI ZyPer4K variants. This command and firmware will alter the 12G SDI board PID to a specific value for our server to identify the expansion board type ever time.

This was introduced to resolve a problem with the 12G SDI expansion boards being misidentified as base board devices only. This was usually seen when there is a greater number of the 12GSDI devices trying to be identified at the same time. This would lead to the device identification mechanism becoming overwhelmed.

A new MP software and endpoint firmware was created to provide a solution to the problem. This conversation command in the new MP software would convert the PID to all 12G SDI ZyEPr4K to a new value specific to fiber or copper

Our solution is to upgrade the MP software and load to the MP the device firmware under the srv/files/ftp folder. Then once the firmware is loaded on the MP, reboot each 12G SDI ZyPer4K expansion unit one at a time with 15 seconds in between boots to allow the mechanism to discover each device properly. After all devices are discovered properly the conversion command below can be run to convert the units to the new IDs

To convert to the new PIDs
convertPid Zyper4K sdi12g toNewPid semtech_blueriver_4.1.2.9_build3943-zeevee-PLUS_12GSDI.apz

To convert to the old PIDs
convertPid Zyper4K sdi12g toOldPid semtech_blueriver_4.1.2.9_build3943-zeevee-PLUS_12GSDI.apz

PID conversion

Board	Original PID	New PID
12GSDI Encoder Fiber	**2**	**8**
12GSDI Encoder Copper	**4**	**9**

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
ZyPer4K – 12G SDI	Final SDI 12G update along with endpoint firmware, conversion commnad feature and process to update all 12G ZyPer4K boards	

ZyPer MP - Server	Redundancy updates resolving multiple issues during and after the upgrade process and failover.	
ZyPer MP - Server	Redundancy disabled server fixes	
ZyPer MP - Server	Segfault fixes on the server	
ZyPer4K – 12G SDI	Most of the SDI 12G issues have been resolved	
ZyPer4K – 12G SDI	If bit 6 of 12gsdi status is 0 do not send resets	
ZyPer4K – 12G SDI	If status byte & 0xe0 == 0xe0 or 0x40 == 0 do not send resets	
ZyPer4K – 12G SDI	delay sdi12g polling for 1 second after loading startup commands	
ZyPer4K – 12G SDI	TMDS ratio cmds split into with 800ms wait between; send lowRatio after init block (after 1s wait)	
ZyPer4K – 12G SDI	signed/unsigned bug where 0xeb was being treated as unsigned, and var was signed	
ZyPer4K – 12G SDI	Additional fixes for the 12G SDI initialization process to provide better board detection and function.	
ZyPer MP - Server	Fixed data tunnel bug where certain tunnels are missing after server reboot or reset.	
ZyPer MP – Server	Fixed multiple Redundancy detection issues of the ZyPer4K 12G SDI devices.	
ZyPer MP – ZyPerXSE HID devices	Fixed ability to join HID ZyPerXSEs	
ZyPer MP – Server – SNMP	ZEEVEE mib - zvzServerInfo - some nodes are not returning correct info	
ZyPer MP – Server – SNMP	cannot GET any ZEEVEE specific nodes	

5. Issues Outstanding

Component	Issue	Workaround
ZyPer4K HDMI 2.0 12G SDI	Video blinks out for a second when the MP service restarts.	
	Continuous "RcDeviceBrnt::ConvertDeviceData -- video port auto-changed" with some resolutions using the 12G Decimator.	
ZyPer4K MP Server	Slave server allowed to run update device and convert commands on devices	
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 GUI – VAM	Stream trace does not work sometimes, this occurs randomly.	A refresh of the browser or clearing the cache sometimes resolves this issue.
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 - 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 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.
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 - 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

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.

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 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.	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 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

ZyPerUHD60

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 devices	Rebooting the device forces the Dante audio to source HDMI audio	None
Encoder or Decoder 2 with Dante enabled	Dante port set to DHCP on the same subnet as the main media port, it will report the same IP as the media port	Working as designed. Media port and Dante Port cannot be on the same network
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 - 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.

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	None

	Color bit depth –always reports 8-bit	
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 is 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 Server

Component	Limitation	Workaround

Duplicate IP warning	Duplicate IP with the ICRON USB - The message does not repeat on every command output in the CLI	None
Server Multicast reporting	Multicast Streams on encoders are left enabled and running without a device connection	None

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	These 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. Failover servers will take any code and allow access.	No workaround to this issue
MP Redundancy	Account Locking and unlocking are 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 – InitialExpire	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

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.

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	**2.1.0.9**
ZyPerXSE HDMI2.0	**2.1.0.9**
ZyPer Netgear Encoder Module	**4.0.0.6**
ZyPerUHD Encoders and Decoders	**5.8.3**
ZyPerUHD Wallplate Encoders	**5.8.3**
ZyPerUHD Dante Encoders	**5.8.3**
ZyPerUHD60 Encoders and Decoders	**5.8.3**
ZyPerUHD60 Dante Encoders and Decoders	**5.8.3**

Firmware Compatibility

ZyPer4K HDMI 2.0, ZyPerNG, ZyPerXS/XR and ZyPerXSWP

Endpoint Firmware	MP 2.5.3	MP 3.0	MP 3.1	MP 3.2	MP 4.0	MP 4.0.2	MP 4.0.3
ZyPer4K 4.1.2	**X**						
ZyPer4K 4.1.2.1	**X**						
ZyPer4K 4.1.2.9	**X**	**X**	**X**	**X**	**X**	**X**	**X**
ZyPerNG 4.0.0.6	**X**	**X**	**X**	**X**	**X**	**X**	**X**

ZyPerXS/XR/ WallPlate 1.5.0.1	**X**	**X**					
ZyPerXS/XR/ WallPlate 1.5.0.6	**X**	**X**					
ZyPerXS/XR/ WallPlate 2.0.0.0		**X**	**X**	**X**			
ZyPerXS/XR/ WallPlate 2.1.0.1					**X**	**X**	**X**
ZyPerXS/XR/ WallPlate/XSE 2.1.0.9						**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.**

Endpoint Firmware	MP 2.5.3	MP 3.0	MP 3.1	MP 3.2	MP 4.0	4.0.2	4.0.3
ZyPerUHD zuhd_1.16.up1							
ZyPerUHD zuhd_1.17.up1							
ZyPerUHD zuhd_1.18.up1							
ZyPerUHD zuhd_1.19.up1	**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**			
ZyPerUHD zuhd_5.8.up1					**X**	**X**	**X**
ZyPerUHD zuhd_5.8.3.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.

***WARNING:* 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.**

***WARNING:* ZyPerUHD60 Device on Firmware 5.7.1 and higher requires all devices to be on this 5.7.1 or higher to interop between encoder and decoder, this is due to the MTU of 1500 being enforced as the max size packet.**

Device Compatibility

Encoders

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

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
*** See USB compatibility chart below in the "Additions" Section

Decoders

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

Icron USB Cross compatibility - broken out

		Decoders						
	USB Routing	Z4K-XS	Z4K-XR	XS-WallPlate	XS-WallPlate Icron	Z4K-Icron	Z4K-XSE	Z4K-XSE Dante+Icron
Encoders	Z4K-XS	Yes	Yes	Yes	No	No	Yes	Yes (Disable Icron)
	Z4K-XR	Yes	Yes	Yes	No	No	Yes	Yes (Disable Icron)
	Z4K-WallPlate	Yes	Yes	Yes	No	No	Yes	Yes (Disable Icron)
	Z4K-WallPlate-Icron	No	No	No	Yes	Yes	No	Yes
	Z4K-Icron	No	No	No	Yes	Yes	No	Yes
	Z4K-XSE	Yes	Yes	Yes	No	No	Yes	Yes (Disable Icron)
	Z4K-XSE Dante+Icron	Yes (Disable Icron)	Yes (Disable Icron)	Yes (Disable Icron)	Yes	Yes	Yes (Disable Icron)	Yes

Red = USB Not Supported between devices
Yellow = USB HID Supported between devices (May require Icron to be disabled on XSE unit)
Green = Full USB 2.0 Supported between devices

Limitations:

- This release 802.1X support is not included for the ZyPerXSE endpoint firmware, but is available for ZyPerXS running 2.1.0.1. Plans to release 2.2.0.0 for XS/XR/XSE and XSWP endpoint firmware will be included in the following weeks which will include 802.1X support for these products.
- ***Certain USB hubs can cause power issues with the ZyPerXSE Rev1. This usually occurs when connecting the USB*** hub into the ZyPerXSE Rev1 after boot up. When this happens the Utility port flashes

the link LEDs briefly (this is due to the excess power draw and is the best way to determine if the HUB could cause power issues on the device.

ZyPer UHD30/60 Firmware package 5.8

The following fixes are included in the 5.8 update package that are new since 5.7

ZUHD60-0E/1E/1D

1. Fix the issue decoder switching may flash the engineering OSD information.
2. Fix the issue EDID on ZUHD60-1E is not saved after rebooting.
3. Fix the issue decoder may overlay the OSD on video after switching.
4. Fix the issue repeat echo 0 to screen off will cause black screen between switching.
5. Dante AV-A Video Routing support, default off.
6. OSD MENU AV Routing support, default off.
7. Add LLDP support, default off.
8. Video Ultra Low Latency support.
9. Change MTU to 1500, no jumbo required.

ZUHD60-2E/ZUHD60-2D

1. Fix the issue decoder switching may flash the engineering OSD information.
2. Fix the issue EDID on ZUHD60-2E is not saved after rebooting.
3. Dante AV-A Video Routing support, default off.
4. OSD MENU AV Routing support, default off.
5. Add LLDP support, default off.
6. Video Ultra Low Latency support.
7. Change MTU to 1500, no jumbo required.

ZUHD60-0EA/1EA/1DA

1. Fix the issue decoder switching may flash the engineering OSD information.
2. Fix the issue EDID on ZUHD60-1EA is not saved after rebooting.
3. Fix the issue decoder may overlay the OSD on video after switching.
4. Fix the issue repeat echo 0 to screen off will cause black screen between switching.
5. Fix the issue after Dante Controller routing video (if enabled), the regular MAC address routing cannot get video.
6. Dante AV-A Video Routing support, default off.
7. OSD MENU AV Routing support, default off.
8. Add LLDP support, default off.
9. Video Ultra Low Latency support.
10. Change MTU to 1500, no jumbo required.

Known issues / limitations:

1. When Dante Video Routing enabled, analog output on Encoder, and ARC on Encoder will not work.

ZUHD60-2EA/2DA

1. Fix the issue decoder switching may flash the engineering OSD information.
3. Fix the issue EDID on ZUHD60-2EA is not saved after rebooting.
4. Dante AV-A Video Routing support, default off.
5. OSD MENU AV Routing support, default off.
6. Video Ultra Low Latency support.
7. Change MTU to 1500, no jumbo required

Known issues / limitations:

1. When Dante Video Routing enabled, analog output on Encoder, and ARC on Encoder will not work.

ZyPer XS/XR and XS wallplate Firmware package 2.1.0.9

1. Support for XSE encoders and decoders.
2. Fixes for Audio clipping sound when connecting Analog audio on XSs/WPs

9.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_4.0.3.41103.zyper
- ZyPerMP Proserver: update_proserver_4.0.3.41103.zyper
- ZyPerMP VMware: update_vm_4.0.3.41103.zyper
- ZyPerMP Simply NUC: update_nuc2004_4.0.3.41103.zyper
- ZyPerMP ProServer 22.04: update_proserver2204_4.0.3.41103.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	4.0.3
1.2.X	1.3	1.6	1.7.4	2.1	2.3.1	2.5.3	4.0.3
1.3.X	1.6	1.7.4	2.1	2.3.1	2.5.3	4.0.3	
1.4.X	1.6	1.7.4	2.1	2.3.1	2.5.3	4.0.3	
1.5.2.X	1.6	1.7.4	2.1	2.3.1	2.5.3	4.0.3	
1.6.X	1.7.4	2.1	2.3.1	2.5.3	4.0.3		
1.7.4.X	2.1	2.3.1	2.5.3	4.0.3			
1.8	2.1	2.3.1	2.5.3	4.0.3			
2	2.1	2.3.1	2.5.3	4.0.3			
2.1	2.3.1	2.5.3	4.0.3				
2.1.1	2.3.1	2.5.3	4.0.3				
2.2	2.5.1	2.5.3	4.0.3				
2.3	2.5.1	2.5.3	4.0.3				
2.3.1	2.5.3	4.0.3					
2.4	3.0	4.0.3					
2.5	3.0	4.0.3					
2.5.1	3.1	4.0.3					
2.5.2	3.1	4.0.3					
2.5.3	4.0.3						
3.0	4.0.3						
3.1	4.0.3						
3.2	4.0.3						
4.0	4.0.3						
4.0.2	4.0.3						

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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	DHCP	No	Passed
2.5.3.39237	STATIC	Yes	Passed
2.5.3.39237	STATIC	No	Passed
2.5.3.39237	Link Local	No	Passed
3.2.40342	DHCP	Yes	Passed
3.2.40342	DHCP	No	Passed
3.2.40342	STATIC	Yes	Passed
3.2.40342	STATIC	No	Passed
3.2.40342	Link Local	No	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	DHCP	No	Passed
4.0.3.40695	STATIC	Yes	Passed
4.0.3.40695	STATIC	No	Passed
4.0.3.40695	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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	DHCP	No	Passed
2.5.3.39237	STATIC	Yes	Passed
2.5.3.39237	STATIC	No	Passed
2.5.3.39237	Link Local	No	Passed
3.2.40342	DHCP	Yes	Passed
3.2.40342	DHCP	No	Passed
3.2.40342	STATIC	Yes	Passed
3.2.40342	STATIC	No	Passed
3.2.40342	Link Local	No	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	DHCP	No	Passed
4.0.3.40695	STATIC	Yes	Passed
4.0.3.40695	STATIC	No	Passed
4.0.3.40695	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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	DHCP	No	Passed
2.5.3.39237	STATIC	Yes	Passed
2.5.3.39237	STATIC	No	Passed
2.5.3.39237	Link Local	No	Passed
3.2.40342	DHCP	Yes	Passed
3.2.40342	DHCP	No	Passed
3.2.40342	STATIC	Yes	Passed
3.2.40342	STATIC	No	Passed
3.2.40342	Link Local	No	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	DHCP	No	Passed
4.0.3.40695	STATIC	Yes	Passed
4.0.3.40695	STATIC	No	Passed
4.0.3.40695	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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	DHCP	No	Passed
2.5.3.39237	STATIC	Yes	Passed
2.5.3.39237	STATIC	No	Passed
2.5.3.39237	Link Local	No	Passed
3.2.40342	DHCP	Yes	Passed
3.2.40342	DHCP	No	Passed
3.2.40342	STATIC	Yes	Passed
3.2.40342	STATIC	No	Passed
3.2.40342	Link Local	No	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	DHCP	No	Passed
4.0.3.40695	STATIC	Yes	Passed
4.0.3.40695	STATIC	No	Passed
4.0.3.40695	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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	STATIC	Yes	Passed
3.2.40342	DHCP	Yes	Passed

3.2.40342	STATIC	Yes	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	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
2.5.3.39237	DHCP	Yes	Passed
2.5.3.39237	DHCP	No	Passed
2.5.3.39237	STATIC	Yes	Passed
2.5.3.39237	STATIC	No	Passed
2.5.3.39237	Link Local	No	Passed
3.2.40342	DHCP	Yes	Passed
3.2.40342	DHCP	No	Passed
3.2.40342	STATIC	Yes	Passed
3.2.40342	STATIC	No	Passed
3.2.40342	Link Local	No	Passed
4.0.3.40695	DHCP	Yes	Passed
4.0.3.40695	DHCP	No	Passed
4.0.3.40695	STATIC	Yes	Passed
4.0.3.40695	STATIC	No	Passed
4.0.3.40695	Link Local	No	Passed

Appendix A

Supported Cases

Icron Interop Results:

Encoders	Encoder Icron Firmware Rev	Decoders	Decoder Icron Firmware Rev	USB Mouse or Keyboard	USB storage	USB camera	Touch Screen	Hub up to four devices	Survives fail over	Survives device reboot / rcServer restart	Notes
XSE Rev2 Encoder	**2.0.6**	**XSE Rev2**	**2.0.6**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed/Passed**	
XSE Rev2 Encoder	**2.0.6**	**XSE Rev1**	**2.0.6**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed/Passed**	**Need a hub for rev1 Decoder**
XSE Rev2 Encoder	**2.0.6**	**Charlie New Icron HW**	**2.0.6**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed/Passed**	
XSE Rev2 Encoder	**2.0.6**	**XS Wall plate**	**2.0.6**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed**	**Passed/Passed**	

XSE Rev1 Encoder	2.0.6	XSE Rev2	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XSE Rev1 Encoder	2.0.6	XSE Rev1	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	Need a hub for rev1 Decoder
XSE Rev1 Encoder	2.0.6	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XSE Rev1 Encoder	2.0.6	XS Wall plate	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XSE Rev1 Encoder	1.9.4	XSE Rev2	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XSE Rev1 Encoder	1.9.4	XSE Rev1	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/ Passed	Need a hub for rev1 Decoder
XSE Rev1 Encoder	1.9.4	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XSE Rev1 Encoder	1.9.4	XS Wall plate	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/ Passed	
Charlie Encoder New Icron HW	2.0.6	XSE Rev2	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder New Icron HW	2.0.6	XSE Rev1	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	Need a hub for rev1 Decoder
Charlie Encoder New Icron HW	2.0.6	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder New Icron HW	2.0.6	Charlie Old Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder New Icron HW	2.0.6	Charlie Old Icron HW	1.9.4	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder New Icron HW	2.0.6	XS Wall plate	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder Old Icron HW	2.0.6	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	

Charlie Encoder Old Icron HW	2.0.6	Charlie Old Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder Old Icron HW	2.0.6	Charlie Old Icron HW	1.9.4	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder Old Icron HW	1.9.4	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder Old Icron HW	1.9.4	Charlie Old Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
Charlie Encoder Old Icron HW	1.9.4	Charlie Old Icron HW	1.9.4	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XS wallplate	1.9.4	XSE Rev2	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XS wallplate	1.9.4	XSE Rev1	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	Need a hub for rev1 Decoder.
XS wallplate	1.9.4	Charlie New Icron HW	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	
XS wallplate	1.9.4	XS Wall plate	2.0.6	Passed	Passed	Passed	Passed	Passed	Passed	Passed/Passed	

HID Interopt Results:

HID to HID Testing (No Icron Present on either Encoder or Decoder)

Encoder	Decoder	USB Mouse or Keyboard	Touch Screen	Hub	Survives Redundancy Failover	Survives Device restart and rcServer reset	Notes
XSE Rev2 Encoder	XSE Rev2	Passed	Passed	Passed	Passed	Passed	
XSE Rev2 Encoder	XSE Rev1	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev2 Encoder	XS Decoder	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev1 Encoder	XSE Rev2	Passed	Passed	Passed	Passed	Passed	
XSE Rev1 Encoder	XSE Rev1	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev1 Encoder	XS Decoder	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen

XS Encoder	XSE Rev2	Passed	Passed	Passed	Passed	Passed	
XS Encoder	XSE Rev1	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XS Encoder	XS Decoder	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen

HID to HID Testing (No Icron on the Encoder, Icron turned off on the Decoder)

Encoder	Decoder	USB Mouse or Keyboard	Touch Screen	Hub	Survives Redundancy Failover	Survives Device restart and rcServer reset	Notes
XSE Rev1 Encoder HID Mode (No Icron)	XSE Rev2 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	
XSE Rev1 Encoder HID Mode (No Icron)	XSE Rev1 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev1 Encoder HID Mode (No Icron)	XSE Rev2 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	
XSE Rev1 Encoder HID Mode (No Icron)	XSE Rev1 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XS Encoder	XSE Rev2 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	
XS Encoder	XSE Rev1 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen

HID to HID Testing (Icron turned off on Encoder, No Icron on the Decoder)

Encoder	Decoder	USB Mouse or Keyboard	Touch Screen	Hub	Survives Redundancy Failover	Survives Device restart and rcServer reset	Notes
XSE Rev2 Encoder HID Mode (Icron Present)	XSE Rev2 HID (No Icron)	Passed	Passed	Passed	Passed	Passed	
XSE Rev2 Encoder HID Mode (Icron Present)	XSE Rev1 HID (No Icron)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev2 Encoder HID Mode (Icron Present)	XS Decoder	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev1 Encoder HID Mode (Icron Present)	XSE Rev2 HID (No Icron)	Passed	Passed	Passed	Passed	Passed	
XSE Rev1 Encoder HID Mode (Icron Present)	XSE Rev1 HID (No Icron)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen

XSE Rev1 Encoder HID Mode (Icron Present)	XS Decoder	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen

HID to HID Testing (Icron tuned off on both Encoder and Decoder)

Encoder	Decoder	USB Mouse or Keyboard	Touch Screen	Hub	Survives Redundancy Failover	Survives Device restart and rcServer reset	Notes
XSE Rev2 Encoder HID (Icron Present)	XSE Rev2 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	
XSE Rev2 Encoder HID (Icron Present)	XSE Rev1 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen
XSE Rev1 Encoder HID (Icron Present)	XSE Rev2 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	
XSE Rev1 Encoder HID (Icron Present)	XSE Rev1 HID (Icron Present)	Passed	Passed	Passed	Passed	Passed	Requires Hub for touch screen