

XIP-3901-JPEG-XS

Release History

Release Version	Comprising:		Release Date	User Manual for this Release (Grass Valley Document #)
	Firmware Version	Software Version		
<u>1.0.0</u>	1.0.0.219	1.0.0.219	2021-07-26	13-03065-010 Rev. AM

NOTES: The iControl compatibilities shown below are officially supported by Grass Valley. Earlier versions may also work, with bugs or limited features.

The reference number (Ref#) given for each feature or bug in these release notes refers to internal Grass Valley documentation.

UPGRADE PACKAGE: 1.0.0

Firmware version: 1.0.0 (CPU 1.0.0.219, FPGA 1.0.0.132, AIMS 4.1.2)

Release date: 2021-07-26

GV Orbit: 2.3+

GV Convergent: 2.1.2

iControl compatibility: N/A

iControl Solo compatibility: 7.51+

RCP-200 compatibility: N/A

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

Release type: Official release

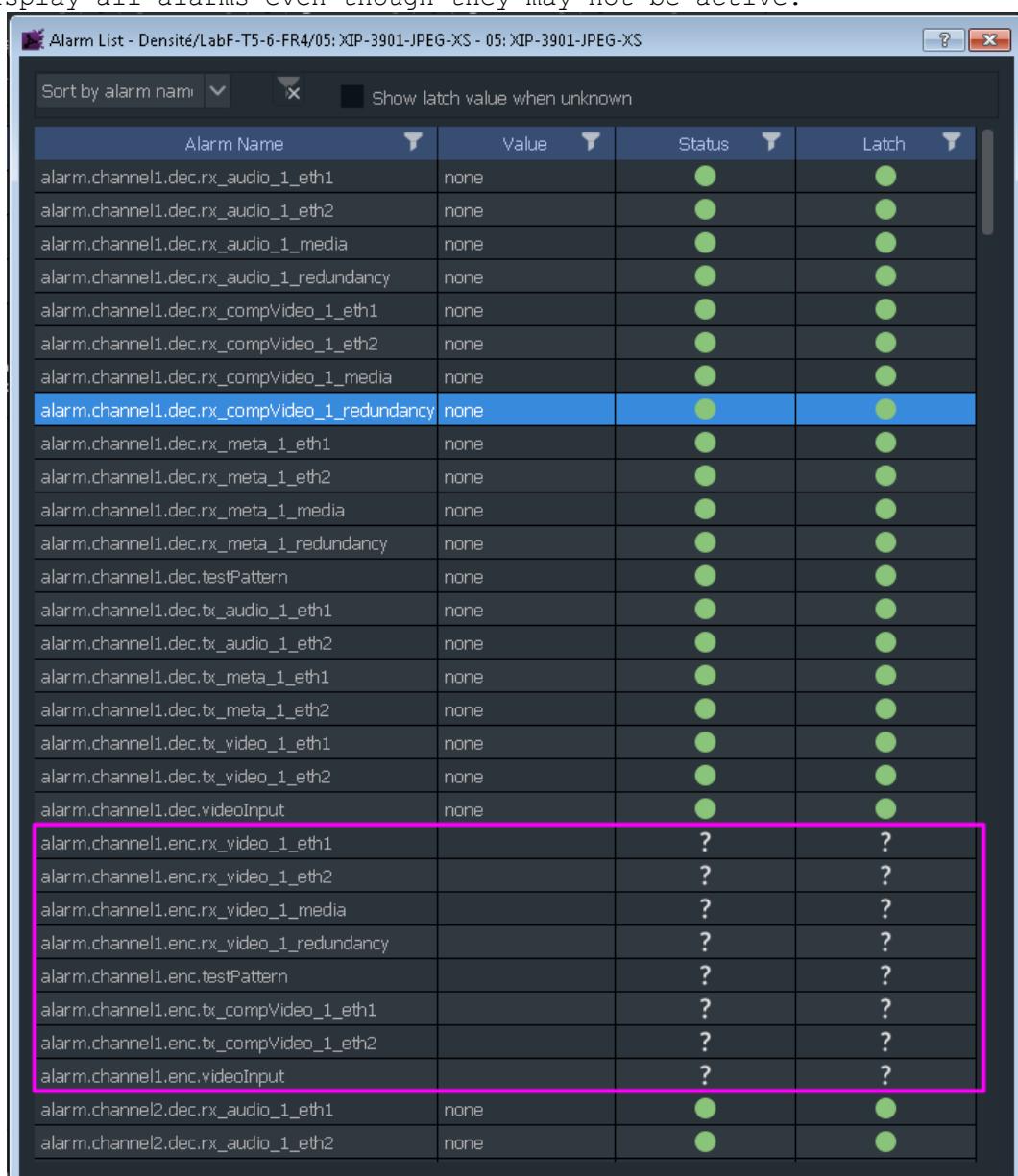
KNOWN BUGS

Ref #	Description
WARNING	<p>In 59.94 Hz, 4 UHD channels might exceed the 25 Gig Media Port bandwidth capacity</p> <p>In "2 UHD/HD DEC & 2 UHD/HD ENC" Operation Mode, if decoding two UHD 59.94 Hz streams and encoding two UHD 59.94 Hz streams, the bandwidth capacity of the 25 Gig Media Port might be exceeded if your compression ratio is low, for example 10:1</p> <p>Use the RX and TX bandwidth measurement in the XIP-3901-JPEG-XS control interface to make sure that the Media Port bandwidth capacity is not exceeded.</p>
WARNING	<p>Audio and Metadata receivers require a valid video receiver</p> <p>XIP-3901-JPEG-XS cannot manage audio and metadata without a valid video receiver, except for audio in "Syntonized" mode.</p>
XIPJPGXS-1085	<p>DAC cables not supported</p> <p>XIP-3901-JPEG-XS supports only optical SFP and AOC cables.</p>

Ref #	Description
XIPJPGXS-1023	<p>Oversubscription situation may disrupt the decoder senders</p> <p>Decoder senders (ST-2110-20 senders) do not recover if total output bandwidth is exceeded, even for a moment.</p> <p><u>Workaround:</u> Disable and enable ST-2110-20 senders to bring them back online.</p>
XIPJPGXS-1109	<p>Some streams may not be received temporarily after changing the Operation Mode</p> <p>When changing the Operation Mode, the joined multicast streams may not leave correctly. If there are switch bandwidth policies, joining a multicast stream in the selected Operation Mode may not succeed immediately because the total requested bandwidth for the port temporarily exceeds the limit. It is only when the leave latency expires that the required bandwidth becomes available.</p>
XIPJPGXS-876	<p>Decoder channel outputs are restamped as a new source in minimum delay timing</p> <p>For decoder channels, the outgoing ST 2110-20 streams are restamped as a new source when timing is set to minimum delay.</p>
XIPJPGXS-1131 XIPJPGXS-1146	<p>No audio error when audio type or profile do not match</p> <p>Receiving an audio stream with the wrong audio settings (type or profile) might not report an error.</p>
XIPJPGXS-1027	<p>ST 2110-3x receivers accept audio profiles having more than 16 CH from GVOC</p> <p>XIP-3901-JPEG-XS supports audio streams that have up to 16 channels. When routing an audio stream with an audio profile that has more than 16 channels, the command is accepted and the receiver parameters are updated, except for the audio profile that is clipped to 16 channels. An error is reported on the XIP-3901-JPEG-XS control interface but no error is shown in GVOC.</p>
XIPJPGXS-1113	<p>No Error when routing ST 2110-20 to an ST 2110-22 receiver with NMOS</p> <p>No Error is flagged when trying to route an ST 2110-20 stream to an ST 2110-22 receiver. XIP-3901-JPEG-XS will not update the receiver settings, and no error is reported through NMOS.</p>

Ref #	Description
XIPJPGXS-920	<p>Buffer Level and Link Offset probing are incorrect for ST-2110-40 receivers (Meta 1)</p> <p>Ignore "Buffer level" and "Link Offset" measurements for ST-2110-40 receivers. Only "Link Latency" measurement is accurate.</p>
XIPJPGXS-852 XIPJPGXS-1143	<p>JPEG-XS Decoder reports "Unknown" format for a missing or unsupported stream</p> <ol style="list-style-type: none"> Decoder channels report "Unknown" format when missing ST 2110-22 stream instead of showing "No Carrier". Decoder channels report "Unknown" format for an unsupported ST 2110-22 stream instead of showing "Not supported".
XIPJPGXS-992	<p>Network settings can be changed through REST/API when port is set to DHCP</p> <p>Network settings are not protected from REST/API commands when the port is set to DHCP.</p>
XIPJPGXS-1101	<p>In GV Orbit, the previous application still appears when changing to JPEG-XS application</p> <p>After changing from any application to the XIP-3901-JPEG-XS application, the previous application may still be shown in the GV Orbit Network Window until the "GV Orbit server IP address" in the XIP-3901-JPEG-XS control interface "Alarm Configuration" section is set to a valid IP address.</p>
XIPJPGXS-1036	<p>Application stays on the Node even if NMOS is disabled</p> <p>Disabling NMOS on the XIP-3901-JPEG-XS will still expose the application on the node.</p>
XIPJPGXS-988	<p>Changing color information will affect the ST 2110-22 sender</p> <p>Changing any color information such as TCS (Transfer Characteristic), Colorimetry or Range will momentarily affect the corresponding ST-2110-22 sender.</p>
XIPJPGXS-1093	<p>Test Pattern limitations</p> <p>Test Pattern generation is not possible in an encoder channel when the ST 2110-20 input stream is invalid or missing.</p>

Ref #	Description
XIPJPGXS-834	<p>Break-before-make does not work for ST 2110-20 receivers</p> <p>The transition is not clean when changing from a valid ST 2110-20 source to another.</p>
XIPJPGXS-1087 XIPJPGXS-1084	<p>Joining the same source on two different channels (Duplicate mode) does not work well</p> <ol style="list-style-type: none"> 1. ST-2110-20 receivers: when joining on another channel the same source that is already joined to one channel (duplicate mode), both channel's senders are affected. 2. ST-2110-22/20/40/3x receivers: in redundancy, when duplicate mode is active for a channel, it is not possible to join a new source. <p><u>Workaround:</u> disable both receivers and enable them again.</p>
XIPJPGXS-1149	<p>Some receivers fail when duplication starts in 8 HD Encoder and 8 HD Decoder modes</p> <p>In "8 HD ENC" and "8 HD DEC" Operation Modes, <u>redundant</u> stream duplication may fail and cause receivers to unlock temporarily and/or to report an incorrect video format in the case of ST 2110-20 and ST 2110-22 receivers.</p> <p>An example with three ST 2110-20 receivers A, B and C from different channels in "8 HD ENC" Operation Mode. They have unique redundant streams, i.e. stream duplication is not activated. When receiver A joins the same streams as B, duplication is activated successfully. Then if receiver A joins the same streams as C, duplication will fail and receiver B may report an error. Finally, if receiver A joins its original streams, thereby returning to the initial state without duplication, receiver A will not join. The receiver A video format will be equal to the receiver B video format.</p> <p><u>Workaround:</u> Disable receivers A, B and C and enable them again.</p>
XIPJPGXS-1122	<p>Network LLDP window does not work on GV Orbit</p> <p>Network LLDP details for each network interface are not shown in GV Orbit.</p> <p><u>Workaround:</u> Open the XIP-3901-JPEG-XS control interface with a browser such as Google Chrome using the card's Control Port IP address.</p>

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XIPJPGXS-1069	<p>GV Orbit lists alarms of inactive decoders and encoders</p> <p>Each XIP-3901-JPEG-XS channel has a JPEG-XS decoder and encoder. But only one is active at a time. Furthermore, channels 5 to 8 are not active in "2 UHD/HD DEC & 2 UHD/HD ENC" Operation Mode. GV Orbit will display all alarms even though they may not be active.</p>  <table border="1"> <thead> <tr> <th>Alarm Name</th> <th>Value</th> <th>Status</th> <th>Latch</th> </tr> </thead> <tbody> <tr><td>alarm.channel1.dec.rx_audio_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_audio_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_audio_1_media</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_audio_1_redundancy</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_compVideo_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_compVideo_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_compVideo_1_media</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_compVideo_1_redundancy</td><td>?</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_meta_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_meta_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_meta_1_media</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.rx_meta_1_redundancy</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.testPattern</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_audio_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_audio_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_meta_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_meta_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_video_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.tx_video_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.dec.videoInput</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel1.enc.rx_video_1_eth1</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.rx_video_1_eth2</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.rx_video_1_media</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.rx_video_1_redundancy</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.testPattern</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.tx_compVideo_1_eth1</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.tx_compVideo_1_eth2</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel1.enc.videoInput</td><td>?</td><td>?</td><td>?</td></tr> <tr><td>alarm.channel2.dec.rx_audio_1_eth1</td><td>none</td><td>●</td><td>●</td></tr> <tr><td>alarm.channel2.dec.rx_audio_1_eth2</td><td>none</td><td>●</td><td>●</td></tr> </tbody> </table>				Alarm Name	Value	Status	Latch	alarm.channel1.dec.rx_audio_1_eth1	none	●	●	alarm.channel1.dec.rx_audio_1_eth2	none	●	●	alarm.channel1.dec.rx_audio_1_media	none	●	●	alarm.channel1.dec.rx_audio_1_redundancy	none	●	●	alarm.channel1.dec.rx_compVideo_1_eth1	none	●	●	alarm.channel1.dec.rx_compVideo_1_eth2	none	●	●	alarm.channel1.dec.rx_compVideo_1_media	none	●	●	alarm.channel1.dec.rx_compVideo_1_redundancy	?	●	●	alarm.channel1.dec.rx_meta_1_eth1	none	●	●	alarm.channel1.dec.rx_meta_1_eth2	none	●	●	alarm.channel1.dec.rx_meta_1_media	none	●	●	alarm.channel1.dec.rx_meta_1_redundancy	none	●	●	alarm.channel1.dec.testPattern	none	●	●	alarm.channel1.dec.tx_audio_1_eth1	none	●	●	alarm.channel1.dec.tx_audio_1_eth2	none	●	●	alarm.channel1.dec.tx_meta_1_eth1	none	●	●	alarm.channel1.dec.tx_meta_1_eth2	none	●	●	alarm.channel1.dec.tx_video_1_eth1	none	●	●	alarm.channel1.dec.tx_video_1_eth2	none	●	●	alarm.channel1.dec.videoInput	none	●	●	alarm.channel1.enc.rx_video_1_eth1	?	?	?	alarm.channel1.enc.rx_video_1_eth2	?	?	?	alarm.channel1.enc.rx_video_1_media	?	?	?	alarm.channel1.enc.rx_video_1_redundancy	?	?	?	alarm.channel1.enc.testPattern	?	?	?	alarm.channel1.enc.tx_compVideo_1_eth1	?	?	?	alarm.channel1.enc.tx_compVideo_1_eth2	?	?	?	alarm.channel1.enc.videoInput	?	?	?	alarm.channel2.dec.rx_audio_1_eth1	none	●	●	alarm.channel2.dec.rx_audio_1_eth2	none	●	●
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<u>XIPJPGXS-1103</u>	<p>Potential problems using NMOS across network domains</p> <p>XIP-3901 advertises itself inside the NMOS registry using solely its hostname. Consequently, working with multiple domains may prevent NMOS nodes and management software to find the required resources on the network.</p> <p><u>Workaround:</u> set a static NMOS Registry configuration in the NMOS section of the XIP-3901-JPEG-XS control interface.</p>
<u>XIPJPGXS-1145</u>	<p>Source and destination persist in GVOC when not active</p> <p>When changing Operation Mode, inactive decoders and encoders are still exposed in GVOC. For example, when changing from "8 HD DEC" to "2 UHD/HD DEC & UHD/HD ENC", dec3 to dec8 will persist in GVOC</p> <p><u>Workaround:</u> apply a NMOS "Force Resync" in GVOC</p>
<u>XIPJPGXS-1152</u> <u>XIPJPGXS-1148</u>	<p>Densite Upgrade Manager (DUM) upgrade may report a false error status</p> <p>Installing the XIP-3901-JPEG-XS application for the first time on a XIP-3901 platform may report a false error status, especially if the auto selection of the new application is requested.</p> <p>In reality, the XIP-3901-JPEG-XS application is correctly installed and the card did reboot. After, the DUM shows that the "Type" is "XIP-3901-JPEG-XS" and the "Installed firmware" is "1.0.0" as expected.</p> <p>Also, DUM will not refresh the "Installed package" for the XIP-3901-JPEG-XS so it will either show "----" or the previously installed package, for example "3.1.0-BUNDLE-2 [XIP3901UDCIF]". This information should be ignored.</p>