

IPG-4901

Release History

Release Version	Comprising:		Release Date	User Manual for this release (Grass Valley document #)
	Firmware Version	Software Version		
1.1.0	1.1.0	1.1.0	2018-05-18	M13-03036-360-AB
1.0.1	1.0.1	1.0.1	2017-09-15	M13-03036-360-AA

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.

XIO-654	<p>Source switching to XIO SDI output might not be clean</p> <p>SDI output Deglitcher on XIO-4901 version 1.3.1 is very limited</p>
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UPGRADE PACKAGE: 1.1.0

Firmware version: 1.1.0 (CPU 1.1.0.6; FPGA 2.5.0.3)

Release date: 2018-05-18

iControl compatibility: 7.20+

iControl Solo compatibility: 7.20+

RCP-200 compatibility: NA

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

Release type: Official Release

ENHANCEMENTS & NEW FEATURES

Ref#	Description
STAR-3452	<p>Hybrid Router</p> <p>Ability to manage audio from and to IFM</p>
STAR-3454	<p>Quality of Service (QoS)</p> <p>Ability to change the Differentiated Service Code Point (DSCP) for each media type using the iControl Panel's SMPTE 2022-6 or AES-67 controls.</p>
STAR-3455	<p>Asynchronous identification for outgoing SMPTE 2022-6</p> <p>SMPTE 2022-6 TX streams will be flagged as asynchronous when required (when SDI input from GV node is asynchronous). This is important for proper operation of Async ST 2022-6 sources received by GV Node v1.3.x.</p>
STAR-3456	<p>New AES67 audio profile</p> <p>Adding support for AES67 audio profile 1ms, 8CH, L24, 48KHz.</p>
STAR-3460	<p>Payload Type</p> <p>Possibility to change the payload type of SMPTE 2022-6 and AES67 streaming</p>

STAR-3457	<p>Support new Alarms</p> <p>Adding iControl and GSM alarms for PTP, AES67 and SDI output alignment.</p>
STAR-2787 STAR-3290	<p>Sender & Receiver Stream address set to 0.0.0.0</p> <ol style="list-style-type: none"> 1. Stream Address 0.0.0.0 is used to <u>stop streaming</u> and <u>stop receiving</u>, hence it does not trigger an error or an alarm. 2. Setting a receiver to 0.0.0.0 selects s SMPTE 2022-6 embedded audio on the SDI output instead of silence.
STAR-3422	<p>Receiver Stream address set to 0.0.0.1</p> <ol style="list-style-type: none"> 1. Stream Address 0.0.0.1 is used to <u>stop receiving</u>, hence it does not trigger an error or an alarm. 2. Setting a receiver to 0.0.0.1 selects s SMPTE 2022-6 embedded audio on the SDI output instead of silence.
STAR-3342	<p>Date/Time on Snapshot Logs</p> <p>Snapshot logs follow the Densité controller (CPU-ETH) Date & Time.</p>
STAR-3540	<p>HD SDI output Default Format</p> <p>Ability to select default video format for SDI outputs set to HD. This format is used when a receiver is enabled and never received a valid SMPTE 2022-6. Otherwise, SDI output format always follows the last valid SMPTE 2022-6.</p>

BUG FIXES

Ref#	Description
STAR-2828	<p>Master ID and Step are still reported after ptp is disable at the switch interface</p> <p>If you disable ptp on the switch interface, the Master ID and Step is still displayed until the card is rebooted.</p>

STAR-3611	<p>Displayed old PTP mac address after PTP source changed</p> <p>SAMA reported IPG3901 still display the old PTP mac address even when the PTP source has changed, the PTP presence status also not consistence while the PTP lock status are fine.</p> <p>Hard reseal the card, change to new mac address. It looks like a refresh issue of the Panel.</p> <p>Corrected for all 3901/4901 releases.</p>
STAR-3233	<p>Switching alignment mode</p> <p>Video and audio to IFM follow automatically IFM Switching alignment mode: Module Slots or Aggregation Ports</p>
STAR-3068	<p>Deglitcher disabled on Async video</p> <p>Deglitched is automatically disabled on Async video from IFM</p>
STAR-3171	<p>Enhance Destination switching</p> <p>Destination switching (IGMP Join/Leave) is now under 1 second.</p>

KNOWN BUGS & LIMITATIONS

Ref #	Description
STAR-3410	<p>Video and audio need to come from same ETH port in aggregation</p> <p>In group sync mode (TR04), SMPTE 2022-6 and AES-67 must be received on the same ETH interface.</p>
Requirement	<p>Alignment in Group sync need SMPTE 2022-6 RTP timestamp to follow PTP</p> <p>Group Sync mode only works if SMPTE 2022-6 RTP timestamp are synced and phased to PTP</p>
STAR-1261	<p>Changing ETH2 settings affect ETH1 streaming momentarily</p>

STAR-2668	<p>Asynchronous SMPTE 2022-6 not supported by the IP-to-SDI Gateways</p> <p>Received SMPTE 2022-6 need to be synchronous to the selected reference. Possible reference signals are an external reference (NTSC or PAL black burst) or the URS signal.</p>
STAR-2898 STAR-2910 STAR-2671	<p>IP-to-SDI DA mode limitations</p> <ol style="list-style-type: none"> 1. DA mode doesn't work with bursty sources 2. DA mode is limited to 5 SDI outputs 3. DA mode only works when both primary (ETH1) and secondary (ETH2) streams of the gateway are the same than an active gateway
STAR-2875	<p>Link Latency and Link Offset statuses need PTP</p> <p>Link Latency and Link Offset statuses are not valid when PTP is not present or not locked. When there is no valid PTP, the values reported should be N/A.</p>
STAR-2572	<p>Output on error Slate might not be phased to reference</p> <p>Slate is phased to the reference only when we previously lose a SMPTE 2022-6 stream.</p>
STAR-2733	<p>Changing SDI-to-IP stream address may corrupt video or audio content</p> <p>For an SDI-to-IP gateway, changing the "Str. Address" or "Str. Port" of an IP stream (SMPTE 2022-6 or AES-67) may send corrupted video and audio content.</p>
STAR-2732	<p>Audio application limitations on IP-to-SDI</p> <p>Receiving AES-67 only works if the SMPTE 2022-6 reception is enabled. Also, the SDI output alignment is only valid on reception of a valid SMPTE 2022-6 stream.</p>
STAR-2664	<p>Test Pattern Limitations</p> <p>SDI Output timing control is ignored when test pattern is enabled.</p>

STAR-2555	<p>Test Tone limitations</p> <ol style="list-style-type: none"> 1. SDI-to-IP: On Test Pattern activation, test tone is generated on the AES-67 stream, but not on the SMPTE 2022-6 Stream. 2. IP-to-SDI: On Test Pattern activation, test tone is embedded on the SDI only if AES-67 stream is enabled.
STAR-2703	<p>When changing ONLY the network gateway of an interface, unicast streaming does not work (Layer3)</p> <p>This problems occurs when working in the "Network > Settings" tab of the iControl UI.</p> <p>If <u>ONLY</u> the "Gateway" value is changed, this setting is not applied.</p> <p>Workaround:</p> <ul style="list-style-type: none"> • Change "Gateway" to the desired value. • Also change the "Subnet Mask" or the "IP address". • Click the "Apply" button. • Revert to the original "Subnet Mask" or the "IP address". • Click the "Apply" button.
STAR-2607	<p>Changing address settings of ETH2 SMPTE 2022-6 stream disturbs the SDI output</p> <p>IP-to-SDI: changing the "Str. Address", "Str. Port" or "iGMPv3 Source" settings of the received stream from ETH1 will affect the SDI output</p> <p>Workaround: Change settings of ETH1 stream offline</p>
STAR-1749	<p>Factory default may not reset all parameters</p> <p>Factory default is not resetting all the parameters and this is an issue only when "Card parameters" and "Network settings" are selected together for a factory default.</p> <p>Workaround : Apply the factory on the "Card parameters" first followed by "Network settings"</p>
STAR-1703	<p>Loading a profile may take 5 seconds</p> <p>When loading a previously saved profile from disk, it may take up to 5 seconds to bring certain parameters (including TICO gateway enable) to appear on the screen correctly.</p>

UPGRADE PACKAGE: 1.0.1

Firmware version: [1.0.1 \(CPU 6; FPGA 21\)](#)

Release date: [2017-09-15](#)

iControl compatibility: [7.20+](#)

iControl Solo compatibility: [7.20+](#)

RCP-200 compatibility: [NA](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

Release type: [Official Release](#)

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STAR-3068	<p>Async video signals from IFM, not supported</p> <p>Video signal has to be synchronize to URS</p>
STAR-1261	<p>Changing ETH2 settings affect ETH1 streaming momentarily</p>
STAR-2668	<p>Asynchronous SMPTE 2022-6 not supported by the IP-to-SDI Gateways</p> <p>Received SMPTE 2022-6 need to be synchronous to the selected reference. Possible reference signals are an external reference (NTSC or PAL black burst) or the URS signal.</p>
STAR-2898 STAR-2910	<p>IP-to-SDI DA mode limitations</p> <ul style="list-style-type: none"> 4. DA mode doesn't work with bursty sources 5. DA mode is limited to 5 SDI outputs

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STAR-2712	<p>Output Timing slider range limitation</p> <p>Range is 0 to 16600 μsec for 59Hz formats and 0 to 19900 μsec for 50Hz formats.</p>
STAR-2732	<p>Audio application limitations on IP-to-SDI</p> <p>Receiving AES-67 only works if the SMPTE 2022-6 reception is enabled. Also, the SDI output alignment is only valid on reception of a valid SMPTE 2022-6 stream.</p>
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