

Release Notes
System Release 14

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1. Information

This document describes new functionality, bug fixes, limitations and known issues related to the following system release:

Product	X Platform
Software Release	14
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2. Compatability Table

Module	HW Module	Previous SW Version	Current SW Version
Software modules with new features in System Release 14			
100G SWIP	SWx400	-	1.6.0
IP Gateway		3.40.19	3.42.7
Six300 2110 J2K Decoder	Six300	-	1.0.0
Six300 2110 J2K Encoder	Six300	-	1.0.0
Six300 SDI J2K Decoder	Six300	-	1.0.4
Six300 SDI J2K Encoder	Six300	-	1.0.0
XPanel		2.1.0	2.3.0
Other supported software modules in System Release 14			
ABR Encoder	ECx110	2.0.3	2.0.3
ABR Transcoder		2.10.2	2.10.2
ASI	Six110, Six120, Six100	2.18.7	2.18.7
Confidence Monitor App		1.4.0	1.4.0
Descrambler	DSx100, DSx110	2.6.1	2.6.1
IP JPEG XS Dec 2110		1.18.0	1.18.0
IP JPEG XS Dec TS	IPx210	1.18.3	1.18.3
IP JPEG XS Enc 2110		1.18.0	1.18.0
IP JPEG XS Enc TS	IPx210	1.20.7	1.20.7
IP ST2022 Encoder		4.6.3	4.6.3
IP ST2110 Decoder	ECx210	2.18.2	2.18.2
IP ST2110 Encoder		2.18.5	2.18.5
JPEG-XS TS ABR Encoder	ECx210	2.0.1	2.0.1
S2x Input	SRx100	2.18.5	2.18.5
S2x Output	SMx100	2.14.0	2.14.0
SDI 2022-6	Six110, Six120, Six200, Six100	2.22.0	2.22.0
SDI Decoder	ECx110	6.16.6	6.16.6
SDI Encoder	ECx110	6.16.14	6.16.14
SDI J2K DECODER	Six110	1.2.0	1.2.0
SDI J2K ENCODER	Six110	1.2.0	1.2.0
SDI JPEG XS Dec 2110	Six110, Six120	2.18.0	2.18.0
SDI JPEG XS Dec TS	Six110, Six120	2.18.0	2.18.0
SDI JPEG XS Enc 2110	Six110, Six120	2.18.0	2.18.0
SDI JPEG XS Enc TS	Six110, Six120, Six200	2.18.1	2.18.1
SDI XS 2110		2.24.1	2.24.1
SDI XS TS		2.26.3	2.26.3

Module	HW Module	Previous SW Version	Current SW Version
SRT	IPx100, IPx110	1.20.1	1.20.1
Scrambler		2.8.2	2.8.2

3. API Overview Table

Module Name	SW Version		API Version		MMI API Version	
	Prev.	Cur.	Prev.	Cur.	Prev.	Cur.
100G SWIP	-	1.6.0	-	1.56	-	5.6
IP Gateway	3.40.19	3.42.7	1.51	1.56	5.4	5.6
Six300 2110 J2K Decoder	-	1.0.0	-	2.56	-	5.6
Six300 2110 J2K Encoder	-	1.0.0	-	2.56	-	5.6
Six300 SDI J2K Decoder	-	1.0.4	-	2.56	-	5.6
Six300 SDI J2K Encoder	-	1.0.0	-	2.56	-	5.6
XPanel	2.1.0	2.3.0	-	-	-	-

4. IP Gateway

4.1. Version 3.42

4.1.1. New Functionality

- Version 3.42.0
 - [XP-8803] Enhance ip output and input label textbox presentation
 - [XP-2713] "MPEG2 AAC (0x0F)" option now available in Component Generation

4.1.2. Change History

- Version 3.42.7
 - [XP-10442] Fixed issues where PTP doesn't work over VLAN
- Version 3.42.6
 - [XP-9589] Changing preferred source on input redundancy will now trigger an "output switched" alarm in reverting mode.
- Version 3.42.5
 - Improved tear down logic for transparent inputs.
 - This fix is important only for rear cases when a single source has been mapped many times within the chassis. Then the teardown could affect other services.
- Version 3.42.4
 - [XP-8756] Fix RTP mapping to support 32x32 outputs from a single input
- Version 3.42.3
 - [XP-10080] Set default dejitter settings to PCR for DVB, MPEG, and ATSC
 - [XP-10153] Change the default IP address used for new 2110 input essences from "239." to "0.0.0.0"
- Version 3.42.2
 - Change the delete card button to also delete the service databases.
 - [XP-7996] Fix issue where the "Card Missing" alarm was reset after reboot.
 - [XP-9543] Fix maintenance panel GUI freeze after 4 minutes
 - [XP-10141] Fix IP source filtering validation when editing services.
 - This problem made it impossible to edit the service properties without removing the source filter.
- Version 3.42.1
 - [XDEV-15723] ST2110 Output GUI now refreshes itself when data changes in a separate window
 - [XP-9978] Keep TCP connection open when listening for SCTE-104 messages on port 5167
 - [XP-9698] Fix delete all button in 2110 output gui
 - [XDEV-15746] Fix enable button for 2110 input GUI for Audio essences
 - [XP-9698] Reclicking 2110 output essence will toggle (open/close) it
 - [XDEV-15687] Fix issue where the "Outputs" page table refreshes every 3 seconds, losing focus
- Version 3.42.0
 - [XDEV-12910] Fix crash when deleting zixi input immediately after configuring it
 - [XDEV-12954] Fix 2110 essence types naming and fix negative seamless margin in gui.
 - [XDEV-13001] Fix missing default gateway on DIP cards
 - [XDEV-13033] Fix crash when deleting NMOS resources under heavy load.
 - [XDEV-13521] Avoid MIO config getting out of sync in a cloned configuration if one leg has lost link
 - [XDEV-14925] Fix for incorrectly total and effective bitrate status when seamless was enabled and path B master
 - [XDEV-15301] Move SFP Status popover to the same line as the text
 - [XP-5475] PAT missing is now purely controlled through the pid timeout signal from psi-ng

- [XP-8159] Start using the scaled down LSS endpoint for port bitrates
- [XP-8165] Hide RTP status gui for 10G
- [XP-8695] Fixed issue where vlan tag fields in network tab would always jump focus to the bottom-most vlan field everytime a character was typed in any of them
- [XP-8911] Fixed issue where the queue surveyer on the MMIs would be left in a broken state after timing out the remote controller for the QueueSurveyer.control endpoint for any linecard
- [XP-9299] Move Ping Device component to Network Diagnostics page
- [XP-9501] Hide "Live import" button from Import/ Export page since it is unstable
- [XDEV-15582] Fix broken message in pop-up when disabling RX or TX on port in network GUI
- [XP-9876] Fix IPv6 vlan GUI toggle

4.1.3. Known Issues

- No known issues

5. 100G SWIP

5.1. Version 1.6

5.1.1. New Functionality

- Version 1.6.0
 - [XP-6090] Genlock status

5.1.2. Change History

- Version 1.6.0
 - [XP-9705] Fix critical stability issues after boot.
 - [XP-10107] Fix issue with invalid dejitter overflow alarms for SPTS inputs.
 - [XP-10108] Fix issue where PSI analysis for SPTS inputs could fail, causing PMT missing alarms.
 - [XP-9860] Fixed over-allocation bitrate over backplane causing card failure.

5.1.3. Known Issues

- [XP-9796] BP Bitrate status not correct in dual MMI setup

5.2. Version 1.4

5.2.1. New Functionality

- Version 1.4.0
 - [XP-7668] Added SPTS mapping mode to the 100G SWIP. The SPTS mode supports mapping Single Program Transport Stream content of TR-01 and TR-07.
 - [XP-2318] Added support for SPTS inputs on 100G.
 - [XP-5379] Added support for mapping SPTS from SDI encoder cards to 100G output. The output mapping stage inserts PAT/PMT but does not support multiplexing.
 - Mapping SPTS sources from one 100G card to another must be done using RTP mapping mode.
 - [XP-7254] Added new alarm when unable to detect source frame rate to notify the user to enable Traffic Policer.
 - [XP-6470] Added the alarm 'Overallocation: packet dropped' that triggers when the backplane bandwidth between two slots is overallocated and packets are dropped as a result, informing the user of which slots are affected
 - [XDEV-12795] NMOS licensing added

5.2.2. Change History

- Version 1.4.5
 - [XP-9698] 2110 output delete all
 - [XP-9698] 2110 output: Ensure right hand view is closed when re-clicking on a stream
 - [XP-9800] Fix CBR not working on IP output.
 - [XP-9813] Fix RTP dejitter on SPTS inputs
- Version 1.4.4
 - [XP-9501] Hide "Live import" button from Import/ Export page
 - [XP-9575] Fix an issue where we would not display the input and/or output app correctly if it was removed and added in the GUI

- [XP-9755] Remove the option to create MPTS outputs on 100G
- Version 1.4.3
 - [XP-9337] Update users guide
 - [XP-9267] Fix multiple invalid saving scenarios
 - [XP-8433] Fix a reboot issue where internal IP interfaces could end up not being activated.
- Version 1.4.2
 - [XP-8978] Fix: MMI cards lost connection to backplane
 - [XP-9215] Render the input redundancy popover text to the top-left rather than bottom-left to avoid flickering when it expands the edit bar's size.
 - [XP-9267] Do not show Add to multiplex for SPTS Output and fix an issue where the GUI would crash by enabling seamless on 100G.
- Version 1.4.1
 - Fix a recurring bug where the IPV4 config for D2 could stop being showed in the GUI.
 - [XP-9202] Disable analyze mode dropdown for 100G inputs after creation when SPTS feature is enabled
- Version 1.4.0
 - [XDEV-13378] Removed hot-identical option for SPTS (TR-07).
 - [XP-8101] Remove OSFP and FEC from 100G licenses
 - [XP-8451] Limit the allowed SPTS outputs to 96
 - [XP-8911] Fixed issue where the lincards could loose connection with the switchcards during switch card reboots in a dual MMI configuration.
 - [XDEV-12656] Removed 100G TS Multiplexing and TS processing licenses.
 - [XP-6452] Expand the source field in the Input Redundancy panel.
 - [XDEV-12275] Kernel updated to 6.6.52.1
 - [XDEV-12329] Improved 2110 output essence status view
 - [XP-5475] PAT missing is now purely controlled through the pid timeout signal from psi-ng
 - [XDEV-12517] Populate packettime for NMOS Audio Senders based on info from SDP
 - [XDEV-12588, XDEV-12589] TR-07 mode - Set CC to N/A in the input view, hide 'TS Sync Byte Error Detected' and 'TS Error (TEI) Count' in the status view, hide 'Rate' and 'CC' fields in the components view.
 - [XP-8201] New FPGA 2.100.000008, fixes false 'Backplane bitrate exceeded' alarms.
 - [XP-8244] New FPGA 2.100.000009, fixes rare packet loss on backplane under high load
 - [XP-8180] Use a different ST2110 group node for outputs to avoid them appearing as mappable
 - GetLinkRates RPC now uses bigint to support 100G link rates
 - [XDEV-12954] Bump firewall-gui (14.2.14): Includes renaming 2110 essence types, and fix for negative seamless margin in gui.
 - [XP-8804] Remove 'VOD ingest' as an option for 'increment' when adding inputs
 - [XDEV-13391] Fix hot-standby input redundancy for SPTS outputs on 100G
 - [FPGA-6361] NMOS Firewall did not work properly
 - [XDEV-12477] Do batching of NMOS resources to improve performance with large number of essences
 - [XDEV-12672] Handle invalid UTF8 in SFP status.
 - [XP-8154] Disabling flows is now applied on the correct physical port
 - [XDEV-12712] Fix issue with datagram spacing not being configured correctly when creating or changing ST2110 inputs
 - [XP-8150] Fix missing packet drop alarm on 100G interfaces
 - [XP-8159] Fix overflowing bitrates in portal and status dashboard
 - [XP-8165] Use correct flowid in order to get proper RTP status on output 2110
 - [XDEV-13033] Fix crash when deleting NMOS resources under heavy load.
 - [XP-8231] Fix metadata encoder deadlock (New FPGA 02.100.000010)

- [XP-7464] UPC – Missing OSPF alarm in D1
- [XP-9046] Fix a bug where source address on IP outputs would only allow IPv4 addresses and not IPv6 addresses
- [XP-9069] Bump appear nmos. Prevents crash of nmosnode when trying to enable/disable the same resource quickly
- [XP-8695] Fix GUI issue where adding or removing a character in the VLAN tag field in the network tab would unfocus the field, making it difficult to use

5.2.3. Known Issues

- No known issues

5.3. Version 1.2

5.3.1. New Functionality

- Version 1.2.0
 - Added support for TR-08 (JPEG XS over 2110) with NMOS support on both input and output. The NMOS handling is integrated with the linecards to include SDP forwarding. The solution offers both in-band and out-of-band NMOS and PTP.
 - [XP-3235] New 2110 input GUI including essence grouping.
 - [XP-4446] New 2110 output GUI including essence grouping
 - [XP-4347], [XP-2699],[XP-4641] NMOS support on both RX and TX including advanced labeling.
 - [XP-6454] Dual MMI Support. Note that the 100G (SWx400) cannot be mixed with the 10G switch modules. This is due to the backplane structure and the increased backplane bitrate between the two MMI's- which in the 100G platform is increased from 10 to 100G.
 - [XP-6470] Alarm for backplane slot bandwidth over allocation.
 - With 100G linerate support on the front and a 10/25G backplane linkrate there is a risk that the backplane rate may be overallocated.
 - [XP-7254] Added Source Framerate Undetected Alarm.
 - If the system is not able to detect the source framerate the dejittering will not be able to operate. In these scenarios it is possible to active the traffic policer which will serve as a secondary buffer control mechanism.

5.3.2. Change History

5.3.3. Known Issues

- No known issues

5.4. Version 1.0

5.4.1. New Functionality

- Version 1.0.0
 - Dual 100Gbps QSFP interfaces
 - QSFP28: 100G, 100G w FEC
 - QSFP+: 40G
 - SFP28: 25G, 25G w FEC
 - SFP+: 10G

- VLAN support on dataports (1000 VLAN's)
- 2000 flows
- Multicast/Unicast RX/TX
- IGMPV2/V3 and SSM
- RTP, 2022-6 and 2022-2 flow mapping support
- RTP 2022-6 and 2022-2 dejittering
- 2022-7 redundancy
- Traffic policing
- Cloned output
- Input redundancy support on IP output chain.
- Output redundancy
 - MoE
 - MiO
- SRC IP and SRC port override on IP output.
- PCAP recorder
 - Input flow
 - CPU PCAP recorder
- Maintenance
 - SW upgrade, Card reboot,
 - SW image bank
 - Custom LED control
 - Debug download
 - Configuration import/Export
 - License installation
- System
- Time-settings (Manual,NTP,PTP)
- Monitoring:
 - SNMPV2,V3,
 - Remote Syslog
 - Prometheus

5.4.2. Change History

5.4.3. Known Issues

- No known issues

6. Six300 SDI J2K Decoder

6.1. Version 1.0

6.1.1. New Functionality

- Version 1.0.0
 - SDI output connectors: 8 MicroBNC
 - 8 channel TR-01 2013/2018 Full-frame decoding
 - Per channel:
 - 1 Video
 - 16ch Audio
 - 1 Ancillary
 - Format support
 - 720p, 1080p and 1080i.
 - Framerates: p25/29.97/30/50/59.94/60
 - Video Alignment
 - PTS based Intra-chassis
 - Audio format:
 - S302M passthrough.
 - VANC→ ST2038 mapping
 - Signal loss protection
 - Color bars
 - Freeze frame / silence if there are hits in the SDI.
 - Black picture
 - Sync Loss
 - Prometheus support for system parameters only.

6.1.2. Change History

- Version 1.0.4
 - [XD-712] Fixed "no audio output" alarm too aggressive in case of PTS offset
- Version 1.0.3
 - [XD-712] Fixed "no audio output" alarm too aggressive in case of PTS offset

6.1.3. Known Issues

- No known issues

7. Slx300 2110 J2K Encoder

7.1. Version 1.0

7.1.1. New Functionality

- Version 1.0.0
 - Inputs via 2xSFP28 cages
 - 8 channel TR-01 2013/2018 Full-frame encoding support.
 - Per channel:
 - 1 Video (2110-20)
 - 8x Audio (2110-30 and/or 2110-31)
 - 1x Ancillary (2110-40) essences
 - HDR signaling support
 - Format support
 - 720p, 1080p and 1080i.
 - Framerates: p25/29.97/30/50/59.94/60
 - Video Alignment
 - PTS based Intra-chassis
 - Timecode insertion from
 - PTP or NTP into SMPTE ST2038
 - Audio format:
 - S302M passthrough. Number of channels to be carried must be selectable
 - VANC → ST2038 mapping
 - Signal loss protection
 - Color bars
 - Freeze frame
 - Black frame
 - Test generator
 - Prometheus support for key parameters (Sync counters, bitrates ..)
 - In-band and out-of-band NMOS support
 - IS-04 / IS-05
 - Custom labeling

7.1.2. Change History

7.1.3. Known Issues

- Issue

8. Six300 2110 J2K Decoder

8.1. Version 1.0

8.1.1. New Functionality

- Version 1.0.0
 - Outputs via 2xSFP28 modules
 - 8 channel TR-01 2013/2018 Full-frame decoding support.
 - Per channel:
 - 1 Video (2110-20)
 - 8x Audio (2110-30 and/or 2110-31)
 - 1x Ancillary (2110-40) essences
 - Format support
 - 720p, 1080p and 1080i.
 - Framerates: p25/29.97/30/50/59.94/60
 - Video Alignment
 - PTS based Intra-chassis
 - Audio format:
 - S302M passthrough. Number of channels to be carried must be selectable
 - VANC→ ST2038 mapping
 - Signal loss protection
 - Color bars
 - Black frame
 - Sync loss
 - Prometheus support for key parameters (Sync counters, bitrates ..)
 - In-band and out-of-band NMOS support
 - IS-04 / IS-05
 - Custom labeling

8.1.2. Change History

8.1.3. Known Issues

- Issue

9. Six300 SDI J2K Encoder

9.1. Version 1.0

9.1.1. New Functionality

- Version 1.0.0
 - SDI inputs connectors: 8 MicroBNC
 - 8 channel TR-01 2013/2018 Full-frame encoding
 - Per channel:
 - 1 Video (2110-20)
 - 8x Audio (2110-30 and/or 2110-31)
 - 1x Ancillary (2110-40) essences
 - HDR signaling support
 - Format support
 - 720p, 1080p and 1080i.
 - Framerates: 25/29.97/30/50/59.94/60
 - Video Alignment
 - PTS based Intra-chassis
 - Timecode insertion from
 - PTP or NTP into SMPTE ST2038
 - Audio format:
 - S302M passthrough
 - VANC → ST2038 mapping
 - Signal loss protection
 - Color bars
 - Freeze frame / silence if there are hits in the SDI.
 - Black picture
 - Test generator
 - Prometheus support for key parameters (Sync counters, bitrates ..)

9.1.2. Change History

9.1.3. Known Issues

- No known issues

10. XPanel

10.1. Version 2.3

10.1.1. New Functionality

- Version 2.3.0
 - Adds default profiles for encoder and decoder to the flow creation popups, so that it is not necessary to set up profiles in product GUI before using XPanel to create flows with encoder or decoder.

10.1.2. Change History

10.1.3. Known Issues

- No known issues

10.2. Version 2.2

10.2.1. New Functionality

- Version 2.2.0
 - Support for SRT input cards.
 - Support for SRT output cards.

10.2.2. Change History

10.2.3. Known Issues

- No known issues