PRISM
Media Analysis Platform
Release Notes

This document supports firmware version 1.4.3.
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Release notes

This document describes new features, improvements, and limitations of firmware version 1.4.3 for the PRISM Media Analysis Platform. This maintenance release for version 1.4.2 is recommended for all PRISM products.

New features

Version 1.4.3

The following new features were introduced with firmware version 1.4.3:

- New PTP Graph added of the Master/Slave Phase Lag to help track the PTP locking process.
- Event Log reset added to remove messages from the log that are no longer needed.
- ST2022-7 is now compliant with the Class A low-skew path differential specification, which is important for intra-facility links (< 10 ms).
- Stability of SDI Output has been improved, including enhanced jitter tolerance of the IP inputs, lower jitter output, and elimination of CRC errors for 525i and 625i Standard Definition (SD) signals.

Version 1.4.2

The following new features were introduced with firmware version 1.4.2:

- ST2022-7 seamless switching operation and monitoring.
- Headphone output is now active with volume, mute, and left/right audio pair selection.
- Standard Definition (SD) support for 525i and 625i on SDI and IP transports.
- New PTP Graphs application added. Includes Master-to-Slave delay and variance and Slave-to-Master delay and variance graphs.
- IP Graphs application: Path1-Path2 Differential graph added.
- New Timing application added, which shows video offsets from PTP timing.
- Stream capture of all data on a 10 Gbps input to a PCAP file (requires Option MP-IP-CAP).
- IGMPv3 support.
- API additions, including both out-of-band (through the control Ethernet port) and in-band (through the 10 Gbps port).
- ST2110-20 Preview: Early release of ST2110 video decode functionality.
- New MPX 1RU version of PRISM product.
- Added various performance enhancements and bug fixes.
General limitations

This firmware release has the following general limitations. Please check the Tektronix Web site (www.tek.com/downloads) for any firmware updates to the PRISM monitor.

**Audio application**
- When Dolby audio is included in SDI signals or ST2022-6 streams, the bar display in the Audio application may indicate CRC errors.
- When Dolby audio is included in SDI signals or ST2022-6 streams, undecoded Dolby data is sent out of the headphone port.

**IP Graphs application (Option MP-IP-MEAS only)**
- When the instrument is powered on with no IP input stream connected, the graphs in the IP Graphs application may show a false-event spike.
- The TS-DF graph gets invalid data when PTP is locking and accuracy is improved when locked to PTP.
- The PIT graph may see a large value when changing inputs.
- The menu option for a 7 day trend interval has been removed. This option will be reinstated in a future firmware release. Any presets that have been saved with the 7 day trend interval will be changed to use the 1 day trend interval setting.

**Video Session application**
- The Video Session application is not applicable for ASPEN and ST2110-20 preview.

**PTP Graphs application**
- The PTP Graphs application shows incorrect data when no PTP Master is present.
- The menu option for a 7 day trend interval has been removed. This option will be reinstated in a future firmware release. Any presets that have been saved with the 7 day trend interval will be changed to use the 1 day trend interval setting.
PTP message rate reporting
- When no PTP Master is present, the PTP message rates will be erroneously reported as infinite (INF).

IP Status application
- The traffic table always shows data on both SFP ports, regardless of the IP Status setting (Port 1, Port 2, Both).

Control IP Port address assignment in DHCP mode
- When you have the instrument configured so that the Control IP Port address is assigned using DHCP and a DHCP failure occurs, the Control IP Port address display in the Settings > Network submenu does not indicate that a DHCP failure has occurred. If you notice this issue, you may have to manually configure the Control IP Port address.

ST2022-7 seamless switching
- The 10 GbE SFP+ port 2 cannot be used as a general purpose input. The port can be used only as Path 2 in a ST2022-7 system.

ST2110-20 preview
- The following applications/features are not functional and should not be used with a ST2110-20 source. ST2110-20 is a preview of a feature to be available in a future software release.
  - Timing application
  - Video Session application
  - IP Session application, HBRMT parameters only
  - The following audio functions are not available by definition (ST2110-20 is video only):
    - Audio application
    - Headphone output connector
    - Volume control
  - SDI Out connector is not active

SDI Out
- If the PIT jitter is greater than 125 μs, decoded content such as picture and waveform and the SDI Out signal may become unstable.