

Changelog

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#), and this project adheres to [Semantic Versioning](#).

Possible log types:

- [Update instructions] for essential requirements and information about the firmware update procedure
- [Added] for new features
- [Changed] for changes in existing functionality. Improvements should appear under the 'changed' section
- [Deprecated] for once-stable features removed in upcoming releases
- [Removed] for now removed features in this release
- [Fixed] for any bug fixes
- [Security] for security related changes or vulnerabilities

[2.28.8] - 2025-08-20

Update instructions

- Firmware version prior to v2.26.8 : A soft-reset (reset button) may be required in case device does not automatically reboot after firmware update

Added

- mib: Added PTP time info table
- Recover /etc/shadow from the default file if an invalid file is detected

Changed

- log: Add log messages to dts.log for error conditions during user password change
- configdata: Reorder and clean up offsets in the "PTP time info" section
- build: Enhance make commands using all cores during build
- build: Allow two-digit numbers for loop devices to create SD card image

- gitlab-ci: Build entire project with build.sh

Fixed

- Release all resources after read operations on /etc/shadow file
- Fill all digit numbers for the kernel version
- Generate a valid firmware version string for local firmware builds

[2.26.8] - 2024-04-04

Update instructions

- A soft-reset (reset button) may be required in case device does not automatically reboot after firmware update

Added

- Log: Log boot reason state to `/var/log/dts.log` on startup
- Log: Catch segfault signal and log info to `/var/log/dts.log`

Changed

- rootfs: Speed up initial start for ssh and snmpv3 service using haveged userspace entropy daemon
- devicetree: Explicit enable watchdog node
- devicetree: Improve maintaining of version and product name
- Improve ethernet link mode status detection for auto-negotiation
- Log: Improve logging during startup and shutdown
- dtsapp: Improve open/close device and file handles
- dtsapp: Minor internal corrections and improvements

Fixed

- DNS: Fix internal handling of resolv.conf as a file link (rcS init script, DHCPv6 script)
- Log: Remove unwanted trailing characters in alarm logfile `/var/log/dtseerror.log`

- dtsapp: Fix race condition in concurrent queue used by LogPrinter and PLL/Timehandler processes
- dtsapp: Fix possible shutdown abortion by RTC thread. Handle startup, shutdown and supervision of RTC thread properly
- dtsapp: Fix possible shutdown abortion from Timehandler process
- SNMP: Write SNMPv3 user configuration again in case it fails during startup
- SNMP: Fix failing SNMPDv3 user configuration during first time startup or after a firmware update

Security

- Disable IPv4 TCP timestamps

[2.17.15] - 2024-03-11

Fixed

- mib: Fix PTP v2.1 configuration table size

[2.17.14] - 2023-02-27

Added

- Add new schema handling the firmware version. Firmware version follows now the semantic version schema. (firmware: -> /var/log/version.log)
- New OIDs in DTS-COMMON mib for semantic firmware version 1.3.6.1.4.1.13842.4.1.3.
- PTP: Basic support for C37.238 power profile without ALTERNATE_TIME_OFFSET TLV
- DevOps: Firmware deployment with GitLab
- LAN: Enable checksum offload for axi ethernet LAN 2
- IRIG: Add IRIG signal as option in the dtsmenu to the frequency outputs
- Add new feature for MBS production for product branding by /ram/ProductVersionNew.txt

Changed

- PTP: Upgrade to linuxptp v3.1 with support for PTP v2.1 (IEEE 1588-2019)
- dtsmenu: Change ping command sending 4 packets instead waiting 4 seconds
- dtsmenu: Improve representation for a time source offset

- dtsmenu: Change firmware version schema to semantic version (1-Status -> 8-product-information)
- DevOps: Download Bootloader with FPGA from pipeline
- VLAN: Allow VLAN ID 0
- PLL: Adjust internal pid regulation parameters
- ToD: Set time traceable bit in CCSA message based on alarm bit 23 'no valid timesource' instead on alarm bit 10 'PTP synch lost'

Deprecated

- The OID 1.3.6.1.4.1.13842.4.1.2.6.0 for firmware is deprecated. Use the new OIDs under 1.3.6.1.4.1.13842.4.1.3 for firmware version

Removed

- Disable RTC

Fixed

- devicetree: Set correct version string for MOBA-NMS
- dtsmenu: Always show all parameter for timeofday menu
- dtsmenu: Fix entry 4 in timesource priority configuration menu
- dtsmenu: Prevent multiple dtsmenu instances running at the same time
- dtsmenu: Fix routing table shown in dtsmenu
- SNMP: Fix error were an snmp configuration change may fail
- SNMP: Fix "DTS Restart" trap not sent during startup
- Fix dtsdevice.conf restore during startup
- Alarm: Clear 'ptp not running' alarm
- Alarm: Clear 'power voltage to low' alarm
- PTP: Fix issue where alarm bit 10 'PTP synch lost' is set to early
- PTP: Set default value for announce-interval for G.8275.2 Telecom profile to 0
- F-In waits on initial configuration before providing samples
- PLL: Correct calculation for offset compensation

[1.0.8] - 2020-03-16

Added

- Add dtshwtest application for MBS production

Fixed

- Fix factory defaults bug after firmware update
- Set correct hostname after factory defaults load and on first time startup

Security

- Set secure root password

Removed

- Partial single file update removed

[1.0.6-rc.1] 2020-02-18

Added

- Add parameter for a user defined holdover timeout
- Add ntpq access control status configuratin option

Fixed

- Set time tracable flag in CCSA TimeInfo message for ToD-Output
- Fix ITU-T TimeEvent message on ToD-Output

[1.0.4-rc.1] 2019-11-05

Added

- First firmware version for DTS 4020.timebridge