

Trimble Mobile Imaging



GEOSPATIAL

AUGUST 2026

PUBLIC

Release Notes

Introduction

These release notes describe the features and enhancements that are new for the Trimble® Mobile Imaging software (TMI). For further information, visit www.trimble.com/support/.

Upgrade procedure & Best Practices

Install the software from [this](#) location

Best Practices

- Ensure all data is backed up before starting the firmware update.
- Perform the update under stable conditions and avoid scheduling updates immediately before critical projects.
- Follow the firmware update instructions provided in the [user manual](#).
- After installation, check the system thoroughly to ensure all components are functioning correctly
- It may be necessary to clear your browsers cache after installation, to ensure that the user interface shows up correctly

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Version 5.1.0-2

Jul 30, 2026

This is a hotfix release that solves Wi-Fi related issues. It contains all updates from the [Version 5.1.0](#) release but provides a new version of the Network Router OS.

Installation Instructions

1. Download the ZIP bundle that matches your system type. Each bundle contains all required installers for that configuration.
2. Extract the ZIP archive directly to a USB thumb drive and plug the drive into the system to start the installation.
3. If Version 5.1.0 is already installed on your system you can proceed with the next step, otherwise follow the install instruction from Version 5.1.0 (see below).
4. Now run the installation of the Network Router Update which is included in the bundle. This installation will perform a complete system power cycle when finished.
5. Start a Mission once the system is back up. A successful mission start confirms proper operation and ensures that the new firmware version numbers are reported correctly.

Associated Trimble MX Firmware Updates:

- **All MX-Scan CU and CU2:**
 - OS Update v25.12.5 for Network Router

Improvements

- Fixed a problem with slow Wi-Fi to connected clients (laptop, tablet)
- Fixed a problem with sudden loss of Wi-Fi access point connectivity
- Fixed a problem with very slow scanning of surrounding Wi-Fi networks when establishing the internet connection
- Fixed multiple security issues

Additional Notes on Connecting to the internet via Wi-Fi

For security reasons, this update no longer supports connecting to access points that use old WPA-PSK encryption to establish an internet connection. Please make sure the network you connect to uses a current, more secure encryption standard. We recommend using WPA2 (PSK). Please note that WPA3 is not yet supported. When scanning for available access points, please note that access points operating on 5 GHz can take a long time (up to several minutes) to appear. Access points running on 2.4 GHz will appear immediately.

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Version 5.1.0

Apr 30, 2026

This is a major release that brings new features, simplifies system support and fixes earlier discovered bugs

Installation Instructions

1. Download the ZIP bundle that matches your system type. Each bundle contains all required installers for that configuration.
2. Extract the ZIP archive directly to a USB thumb drive and plug the drive into the system to start the installation.
3. Recommended update order:
 - a. Update Trimble Mobile Imaging (TMI) first to this version.
 - b. Then update all remaining components using the additional installers included in the bundle.
4. After all updates have completed, perform a complete system power cycle.
5. Start a Mission once the system is back up. A successful mission start confirms proper operation and ensures that the new firmware version numbers are reported correctly.

New features

- Laser range limit can be now set in capture presets to allow to capture laser data only in specified corridor around the vehicle for Trimble MX50 and MX60 systems
- Added option to store MX system logfile to Data Disk or USB drive
- Added an option to import/export of Mission Presets

Improvements

- Improved support of DMI and GAMS status for Trimble MX90 and MX60 systems
- Improved information in Mission report
- Improved Error Handling for Trimble MX90 and MX9 scanners avoids mission closure in case of error
- Added a functionality to save MX system logfile to the Data Disk on system shutdown

Bug fixes:

- Fixed occasional problems during Mission Start for Trimble MX90 and MX60 systems
- Fixed issue when imported .kml file was not visible on a map

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Associated Trimble MX Firmware Updates:

- **All:**
 - OS Update v2.0.5 for SU (Linux armstone)
- **All MX-Scan CU and CU2:**
 - OS Update v24.10.5 for Network Router
- **MX9:**
 - Firmware Update v11.62 for Applanix POS Navigation System
- **MX50:**
 - Firmware Update v11.62 for Applanix POS Navigation System
 - Firmware Update v2.5.12 for X7P Laser Scanner
- **MX90:**
 - Firmware Update v8.44.014 for Applanix AP+ Navigation System
- **MX60 all configurations:**
 - Firmware Update v8.44.014 for Applanix AP+ Navigation System
 - Firmware Update v1.4.0.0012 for X9P Laser Scanner
- **MX60 Pro + Premium / MX90:**
 - Firmware Update v1.23.2 for Ladybug 6 360° Camera

Note: This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.

Version 5.0.7

Dec 03, 2025

This is a minor release to strengthen our core production and manufacturing systems. While you may not see many visible changes on the surface this update is vital for improving the reliability, efficiency and scalability of our platform.

Other changes and improvements are listed below:

Improvements

- Increased the limits for the Lever Arms (GAMS and DMI)
- Updated EULA

Bug fixes:

- Fixed a bug where SSD check failed occasionally on incorrect date/time of the system

Note: *This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.*

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Version 5.0.6

Sept 24, 2025

This is a minor release with bug fixes and improvements to the disk health check.

Improvements

- Improved disk health checks for more accurate results and reduction of false positives
- The TMI disk filing status is now displayed with two digits after the decimal point

Bug fixes:

- Fixed a bug where license check fails occasionally

Note: *This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.*

Note: *Please make sure that the latest associated Trimble MX Firmware packages are installed along with the TMI update*

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Version 5.0.5

June 06, 2025

This is a minor release with bug fixes and improvements to the user experience when dealing with errors.

Improvements

- Improved error handling in case of problems with 360° camera

Bug fixes:

- Resolved an issue where 360° camera was not recognized correctly (Message: 70100 and 70110)
- Fixed a bug where Mission could not be started because of issues during Disk check
- Fixed issues with USB stick not recognized

Note: *This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.*

Associated Trimble MX Firmware Updates:

- **MX9 / MX50:**
 - POS Firmware Update v11.62
- **MX60 all configurations:**
 - X9P Laser Scanner Firmware Update v1.3.0.00030
- **MX60 Pro + Premium / MX90:**
 - Ladybug 6 Camera Update 1.23.2

Note: *Please make sure that the latest associated Trimble MX Firmware packages are installed along with the TMI update*

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Version 5.0.4

December 11, 2024

This is a minor release with bug fixes and improvements to the user experience when dealing with errors.

Improvements

- Added Norwegian translation
- Added Output of Sensor Specific TimeOffset and GPS Leap Seconds to Mission Report
- Added automatic recovery mechanism when the 360° camera faces errors. This mechanism will take over to recover the camera, without stopping the mission

Bug fixes:

- MX90/MX60: Fixed issue of missing Hardware Monitoring Information under some circumstances
- MX60/MX90: Removed option for 25Hz NMEA output rate on serial port of external connector because of compatibility issues

Note: This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.

Version 5.0.3

October 30, 2024

This is a hotfix release that solves a critical bug in the previous version.

Improvements

- The minimum reserved data disk space has been increased to 8 GB (previously 2 GB) to avoid disk overflow under certain circumstances

Bug fixes:

- Fixed issue with log file handling

Note: This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.

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Version 5.0.2

September 18, 2024

This is a major release that brings support for new mobile mapping systems, improves the stability of the overall system and fixes bugs.

New Features:

- Added support for Trimble MX60 and Trimble MX90 Mobile Mapping Systems and their new hardware components
- Added support for new Control Unit Type: Trimble MX-Scan CU2

Improvements

- Improved handling of removable disks, added automatic performance and health checks and provide direct feedback to the user about the disk status
- System hardware monitoring has been improved

Bug fixes:

- Fixed an issue where bootup of the system could stuck because of the removable disk
- Fixed issues where mission database (mxdb) could become corrupted
- Fixed an issue where quickly starting a mission after powering on could cause camera errors

Note: This version of TMI is not compatible with the Trimble MX7 system. It is compatible with the Trimble MX50, MX9, MX60 and MX90.

Version 4.0.7

February 15, 2024

This is a minor release, focused on fixing bugs and improve performance

New Features:

- Added Italian translation

Improvements

- Lowered overall system load to improve performance
- Improved system reliability during operation and improved error handling on MX50
- Improved disk testing procedure during mission start to better identify problematic disks in advance

Bug fixes:

- Fixed an issue where Laser status could become yellow after UTC midnight on MX50

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Note: Please make sure that the latest associated Trimble MX Firmware packages¹ are installed along with the TMI update

Version 4.0.6

September 20, 2023

This is a minor release, focused on fixing bugs

Bug fixes:

- Fixed an issue where download of Log files took very long time and might result to the command being failed
- Fixed issues where Remote Session could not be started occasionally
- Fixed an issue where Mission is aborted during Run stop/start procedure caused by Panoramic camera
- Fixed an issue with time synchronization of Panoramic Camera in MX7 HW v2.0
- Fixed an issue where Mission Start failed with Error 80200 or 80110

Note: Please make sure that the latest associated Trimble MX Firmware packages² are installed along with the TMI update

Version 4.0.5

July 31, 2023

This is a minor release, focused on fixing bugs

Bug fixes:

- Fixed an issue where Error 10400 occurred sporadically especially during long missions forcing the Mission stop

Associated Trimble MX Firmware Updates:

- **POS FW Update v11.40**
 - POS Firmware to v11.40³ needs to be installed with the TMI v4.0.5

Note: Please make sure that the latest associated Trimble MX Firmware packages are installed along with the TMI update

¹ Associated Trimble MX Firmware Packages: POS FW, Network Router Update, Laser FW Update

² Associated Trimble MX Firmware Packages: POS FW, Network Router Update, Laser FW Update

³ POS FW 11.x requires min TMI v3.2.4

Version 4.0.4

February 9, 2023

This is a minor release. It is focused on fixing bugs, solving known issues with previous TMI versions and improving handling of hardware related issues

Bug fixes:

- Fixed an issue where random errors occurred related to the MX9 planar cameras

Improvements

- Improved overall System reliability during operation and improved error handling
- Improved data handling in case of SSD / Removable Disk related faults
- Improved clarity of error messages and improved instructions in such cases

Associated Trimble MX Firmware Updates:

- **POS FW Update v11.21**
 - It is now possible and recommended to upgrade POS Firmware to v11.21

Version 4.0.3

November 4, 2022

New Features:

- Added functionality to export and download Mission and Runs Coverage as .kmz file
- Added functionality to upload Map Overlay as .kml file directly from an User Device
- Mission and Runs Coverage is now saved as .kmz file with the Mission Data on the removable Disk

Improvements

- General cyber security improvements and updates
- Improved detection of SSD / Removable Disk related performance issues and faults
- Improved detection and signalization of High Speed Link related issues with the 360° camera
- Improved Error message output in case that mission start fails
- Ignore and skip corrupt images of 360° Camera to avoid Mission stop

Bug fixes:

- Fixed an issue where Network / Wifi Device could not connect to MX-Scan
- Fixed an issue where mission start could fail because of oblique camera timeout
- Fixed an issue where an error status was incorrectly reported for the X7P Laser Scanner
- Reduced size of log file downloads, fixed issues with downloading logs

Important Note:

With TMI version 4.0.3 and later it will no longer be possible to downgrade to a previous TMI version

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Version 4.0.1

May 5, 2022

New Features:

- Added Support for independent triggering of Cameras
Important: independent triggering of Cameras is supported by TBC MM v5.7 and higher
- Added Support for different Laser data visualization options

Improvements

- Improved detection of corrupt firmware install packages

Bug fixes:

- Fixed an issue where incorrect folder permission could cause problems on Data Disks
- Fixed an issue where data files have been overwritten during the capture
- Fixed an issue where boresight calibration was not imported correctly in MX7

Associated Trimble MX Firmware Updates:

- **X7P Laser Scanner Update v2.4.23**
 - Applies to Trimble MX50 only
 - It is recommended to update X7P Firmware to this version when updating TMI
- **NetworkRouterUpdate v19.07.8**
 - This is a security update and only applies to MX-Scan Control Unit
 - It is recommended to install this security update

Version 3.2.5

February 3, 2022

New Features:

- Added Support for latest X7P Firmware (R2.3.207):

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Version 3.2.4

December 10, 2021

Bug fixes:

- Fixed an issue where run data file names had incorrect timestamp
- Fixed an issue where the POS data files could have data gaps occasionally
- Fixed an issue where occasionally Wifi is not configured correctly
- Fixed issue where Laser Timesync could be incorrect
- POS FW 11.01 fixes issues with non visible BeiDou satellites

New Features:

- Added options to configure external connector in vehicle/capture settings

POS FW Update v11.01

- It is now possible and recommended to upgrade POS Firmware to v11.01

Version 3.2.3

September 9, 2021

Bug fixes:

- Fixed issue where external Trigger did not work properly in case of MX9 without Cameras or when all Cameras are disabled

Version 3.2.2

August 2, 2021

- Security Updates

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Version 3.2.1

June 28, 2021

New Features

- Added support for Trimble MX50 (T001616)
- Added support for new MX Scan Control Unit
- Added multiple UI Languages
- Added advanced HW monitoring to detect faulty communication lines

Improvements

- Synchronized File Timestamps for all recorded files of the same Run

Bug fixes

- Fixed an issue where Run start / stop Timestamps might become incorrect
- Fixed an issue where display of navigation data was not updated correctly
- Fixed an issue where incorrectly corrupted navigation data was reported during the mission initialization
- Fixed an issue where monitoring of removable SSD's could fail incorrectly
- MX7 HW2.0: Fixed several issues where Image Time Synchronization failed
- MX9: fixed an issue where Laser Scanner Sync could fail in some cases
- MX9: fixed an issue where Laser Scanner was not shut down correctly and caused a warning

POS FW Update v10.50

- It is now possible to upgrade POS Firmware to v10.50
- POS FW 10.x requires TMI v3.1.1 or later

Version 3.1.6

December 1, 2020

Bug fixes

- Fixed possible issue where Laser Scanner initialization could fail during Mission startup
- Fixed issues when changing Wifi Region Code
- Fixed incorrect Laser Scanner shutdown sequence for some devices
- Serial Port Settings for External Connector (POS COM4) not kept during power cycle
- Fixed incorrectly monitored Data Drive in case of MX7 HW2.0
- Optimization for the internal lever arm in MX7 HW2.0
- Fixed issue where generation of MissionReport failed

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Version 3.1.3

August 24, 2020

New Features

- Added scale bar to map view
- Always save internal log / housekeeping data of Laser scanners with every Mission data
- Enable External Camera Trigger per default

Improvements

- Improved Laser data visualization: show 5m grid-lines
- Improved Laser data visualization: drop near-range echos caused by dirty glass
- Default Run Name changed ("Run XX" instead of "Unnamed Run XX")
- Disabled GNSS data in pgr stream for compatibility
- Ensure clock sync of all mainboards on mission start, improved clock sync mechanism (using GPS Time if available)

Bug fixes

- KML import: show correct USB drive prefix, same style as used when importing calibration
- Fixed Browser caching problems
- Improved recording of Navigation data, fixed potential corruption of raw data
- Fixed issue where 360° camera was blocking for long time during Mission stop or Mission reconfigure
- Improved Oblique Camera time synchronization, fixed potential incorrect synchronization
- Fixed issue with potentially corrupt FW update file

POS FW Update v10.30

- It is now possible to upgrade POS Firmware to v10.30

Version 3.1.2

December 12, 2019

- Monitor SSD/Network performance during recording
- Monitor Laser Data Buffer usage, stop recording in case of buffer overload
- Monitor Ladybug frame rate, drop Images frames in case of too high frame rate
- Monitor POS data write performance
- Improved NAV status visualization
- Fixed potential GPS week overrun issue in case of MX7 HW 2.0
- Check for DMI become offline, reflect in NAV state (yellow state)
- *Warn 30 days before maintenance expires - instead of 14 days (Internal)*
- Change Run Numbering to start from 1 instead of 0
- Improved Oblique Camera Time Synchronization during Mission start

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- Added MX9 Sensor Unit Temperature Monitoring (internal)
- Added Support for additional MX9 HW configurations (Trimble MX9 Single Head AP60)

Version 3.1.1

June 4, 2019

- Several stability Improvements
- Added Function to install POS Updates via AI with the same update approach as a normal FW gets installed

POS FW Update v10.00

- It is now possible to upgrade POS Firmware to v10.00

Version 3.1.0

February 20, 2019

Note: requires TMI v3.0.x installed

- Several stability Improvements
- Improved map layer selection menu
- Improved sensor error handling
- Fixed wrong Run length calculation (CoveredDist)
- Added support for single scanner MX9 (T001345)
- Fixed issue with system time synchronization during the mission
- Fixed some issues with Mission Report
- MX9: Added system hardware check on mission start
- MX9: allow to disable individual sensors in the system
- MX7: fixed issue where Wifi connection could not be established when SSID contains spaces or non ASCII chars

Version 3.0.1 / 3.0.2 (MX7 Only)

December 12, 2018 / December 18, 2018

- Initial MX7 TMI 3.x release
- Improved Wifi functionality
- Improved Ladybug Time Synchronization

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Version 3.0.0 (MX9 Only)

October 25, 2018

- Added support for KML Vector Layer in Map
- Added output of Mission Report with Mission Data
- Added Eula which needs to be accepted
- Improved configuration of 360° Camera (should now provide better images in some cases)
- Fixed Satellite Overview.
- Fixed GNSS antenna phase center for Tallysman antenna
- Fixed a bug which prevents downloading log files with some browsers
- Removed GNSS antenna phase center offset of secondary antenna

Version 2.0.1

May 4, 2018

- Added Option to Enable / Disable Wifi
- Added Option to Hide SSID of MX9 Wifi Access Point
- Corrected GNSS Antenna Lever Arm, take Antenna Phase Center into account
- Corrected IMU Lever Arm for MX9 Systems with AP60
- Corrected Horizontal Scale for Camera Front Left in Sensor Readjustment
- Improved stability of Camera 360° during operation
- Improved White Balance handling for Oblique Cameras
- Fixed an issue with Calibration Import from USB HDD
- Several fixed in Web UI
- Several stability Improvements
- Updated to latest 3rd Party Libraries

Version 2.0.0

April 4, 2018

- First FW release for MX9

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Legal Notices

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Release notice

This is the February 2024 release of the Release Notes. It applies to version 4.0.7 and below of the Trimble® Mobile Imaging software.

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