



MT Software Suite 4.3 - Public release notes

New version	MT Software Suite 4.3; MTi FW 1.4.1, MTw FW 2.1.4
Previous version	MT Software Suite 4.2.1; MTi FW 1.3.7/MTw/Awinda FW 2.0.8
Release date	Feb 27 th , 2015
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1. Notes

Supported platform overview

Software platform	Notes on support
Windows XP	Last support in 4.2.1
Windows 7 32-bit	Officially supported
Windows 7 64-bit	Officially supported
Windows 8 64-bit	Tested, no official support
Linux 32-bit	Officially supported
Linux 64-bit	Officially supported
Android ARMv7, Android 4.4.2 (API Level 19 and higher)	Available on request for limited devices, no official support

2. Major improvements and features

Support

+^[2930, 2982, 3072, 3095] Full support for Linux

+^[2873, 3011, 3014] Full 64-bit support for MT Software Suite

+^[3175] MTi ROS node

+^[3127] Beta version of MT SDK for ARMv7, Android 4.4.2 (API Level 19) and higher

+^[FWU14] Firmware Updater for Linux

Improved accuracy

+^[3105, 3102, 3172] Active Heading Stabilization added to VRU_general filter profile

+^[3035, 3078] Optimized filter parameters for MTi-200 and MTi-300

Other major improvements and features

+^[2795] NMEA position output for MTi-G-700 and MTi-G-710 added

+^[FW13, 3065, 3080, 3089] Improved system stability of read/write cycles for flash memory

+^[3048, 3051, 3098, 3112, 3129, 3131, 3146, 3152, 3153, 3162, 3167, 3169, 3183, 3187] Added functionality for multi-GNSS MTi-Gs

3. Bug fixes

MT Manager

- #[1089] Bug in selecting on-board filter profile fixed, no need to select XDA filter profile as well
- #[2997] Onboard custom filter profiles are now shown correctly in MT Manager
- #[3034] SetLatLonAlt screen in Dataviewer width fixed
- #[3191] When choosing XDA Processing on an MTi-G-700 in MT Manager, filter profile selection is possible again

Firmware and sensor fusion algorithm

- #[3114] MFM matrix corrected (both MTw and MTi)
- #[2897] Warning on ECEF fixed point representations (numbers too large for representation)
- #[3108] When GPS fix from GPS receiver is valid, but accuracy is less than 25 meter, the MTi-G filter mode now shows "Without GPS" or "Coasting", which is correct behaviour.
- #[3176] MTi-G-700 increased robustness of navigation solutions by optimized use of SBAS.

Installer

- #[3014, 3011] x64 COM object and redistributable added to the installer
- #[3008] Manuals are now always installed, also if you don't install MT SDK

Magnetic Field Mapper

- #[MFM10] Axis title and legend on results screen in Magnetic Field Mapper is now correct
- #[MFM12] Results screen in Magnetic Field Mapper can now be closed after viewing

4. Minor updates

MT Manager

- ^[3131] Simplified GNSS Satellite info in MT Manager
- + [2859] SetAlignmentRotation is now displayed in MT Manager Data Viewers. This makes it possible to determine the low-level input for arbitrary alignment matrices
- + [2885] Feedback is now provided on changing a synchronization setting in MT Manager
- + [3038] SetUtcTime is now available in XDA and in MT Manager

Firmware and sensor fusion algorithm

- ^[3151] Added RawGNSSPvtData and RawGNSSSatInfo to XDA. Note: this changes the layout of the GNSS and GPS messages (e.g. ECEF to LLA format for position)
- + [3052, 3054, 3151] Height above MSL is now available from the GNSS receiver

Magnetic Field Mapper

- ^[MFM2, MFM7] Redesign of the Magnetic Field Mapper
- + [MFM13] Possible to choose whether Magnetic Field Mapping results need to be shown

Other minor updates

- ^[FWU5, FWU8, FWU13, 2961, 2963] Redesign of FWU: simplified, multiple MTi support, more version and update information
- + [3008, 3162] Linux files and documentation available outside installer, eliminating the need to install the Software Suite on a Windows computer

5. Known issues

- [2871] When a wireless connection has been created, disabling the radio causes MT Manager to freeze
- [2908] Orientation of MTw may be unreliable after long period of outage (buffer overflow)
- [2841] SampleTimeFine cannot be disabled in exporter
- [3222] When StringReport mode is chosen in Output Configuration Window, pressing OK does not have effect. First press Apply, then OK.
- [3233] Warning log in MT Manager indicates missed packets when using MTi-G-700 in legacy mode, although all data is received.