



MT Software Suite 4.6 - release notes

New version	MT Software Suite 4.6; MTi 10/100-series FW 1.4.12; MTi 1-series FW 1.0.16;
Previous version	MT Software Suite 4.5 MTi 10/100-series FW 1.4.5 MTi 1-series FW 1.0.11
Release date	July 12 th , 2016
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1 Notes

^[MTSDK-3605] As the filter profiles for the MTi 1-series are now different from those of the MTi 10-series and 100-series, the filter profile naming and filter profile numbering has changed. See the table in section 2.1.

+ *[MTSDK-3661]* AHS off by default, also for VRU_general, can be turned on with SetOptions

! From this release, the software releases of the MTi and MTw products can be separate releases. Therefore, these release notes no longer include notes on the MTw products.

![MTSDK-3732] This releases requires that the drivers of your graphics card are up to date. When they are not, MT Manager may crash when opening graphs.

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
Windows 10 64-bit	Tested, no official support
Linux 32-bit (Ubuntu 16.04)	Officially supported
Linux 64-bit (Ubuntu 16.04)	Officially supported

2 Improvements and features

2.1 MTi improvements

^[MTSDK-1813] High gyro bias is now successfully estimated, also improves 1-series performance after mounting.

+ [MKIVFW-35] BeiDou support added to the MTi-G-710

^[MTSDK-3672,, MTSDK-3528] Stillness detector improvements result in higher performance for gyro bias estimation functionality

+ [MTSDK-3661] Added AHS for all MTi's and MTi-Gs. AHS off by default, also for VRU_general. AHS can be switched on with a boolean in SetOptions.

2.2 Improved MTi 1-series performance

^[MTSDK-3605, FWU-138] Create designated filter profiles for 1-series to enable better sensor-specific tuning. This changes the filter profile naming and numbering.

Filter profiles SW Suite 4.5 (all MTi products)	Filter profiles SW Suite 4.6 (MTi 1-series)	Filter profiles SW Suite 4.6 beta (MTi 10/100-series)
General (#39)	General (#50)	General (#39)
High_mag_dep (#40)	High_mag_dep (#51)	High_mag_dep (#40)
Dynamic (#41)	Dynamic (#52)	Dynamic (#41)
Low_mag_dep (#42)	North_reference (#53)	Low_mag_dep (#42)
VRU_general (#43)	VRU_general (#54)	VRU_general (#43)

^[MTSDK-3587] MTi-1 series Low_mag_dep profile replaced with North_reference profile

^[MTSDK-3592] MTi-1 series inclination performance improved

2.3 Minor improvements

+ [MTSDK-3683] Added MTi 1-series to ROS-node (https://github.com/xsens/xsens_mti_ros_node)

^[MTSDK-3669, MTSDK-3686] Higher precision export for Longitude and Latitude in exporters (KMZ/ASCII) also resulting in more accurate placement of arrows in KMZ files

^[MTSDK-3656] MTi with 15g accelerometers output up to 18g now

3 Bug fixes

3.1 General fixes

[MTSDK-3363] XDA processing with SCR data works again (MTi 10/100-series)

[MKIVFW-40] MTi-OEM can be scanned on 2nd UART again

[MTSDK-3614] Removed memory leak in C DLL example

[MFM-31] Fixed C# MFM SDK example

[MTSDK-3764] Fixed timing bug with magnetometer, resulting in heading errors in mag-aided filter profiles

[MTSDK-3755] Fixed build errors with MFM SDK

[MTSDK-3734] Added XDA C/C++ example to Linux installer

3.2 MTi-G-7xx specific fixes

[MTSDK-3699] When the MTi-G-700 is inclined (i.e. roll/pitch not close to 0), the velocity output may be unstable.

[MKIVFW-39] Corrected GPGGA string (decimals, timestamp)

3.3 MT 1-series fixes

[MTIONE-120] MTi 1-series I²C communication not working when using full write/read transfer

3.4 MT Manager fixes

[MTSDK-3582] Updated application framework for MT Manager prevents crashing of graphs

[MTSDK-3473] Device Data Viewer and XDA Data Viewer are now correctly shown in conjunction with other graphs.

[MTSDK-3586] Fixed delimiter at the end of exported row in ASCII files

[MTSDK-3644] Fixed bias estimation status bits in graphs
[MTSDK-3349] Clicking Revert in the MT Settings dialog no longer places MTi 10-series/100-series in Config Mode.
[MTSDK-3666] KMZ exporter exports arrows in correct direction at the correct waypoints.

4 Known issues

- [MTSDK-3345] Data in graphs are sometimes not shown when setting display preference to “as fast as possible”.
- [MTSDK-3690] ASCII-exporter sometimes results in a crash