



MT Software Suite 4.6.5 beta - release notes

New version	MT Software Suite 4.6.5 beta; MTi 10/100-series FW 1.4.18 beta; MTi 1-series FW 1.0.18 beta;
Previous version	MT Software Suite 4.6 MTi 10/100-series FW 1.4.12 MTi 1-series FW 1.0.16
Release date	October 10 th , 2016
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1 Notes

+ [MTSDK-3661] AHS off by default for all filter profiles (also for VRU_general). AHS can be turned on with SetOptions, or via Device Settings in MT Manager

! [MTSDK-3732] This release 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-3698, MTSDK-3787, MTSDK-3807] Gyro Bias Estimation improved with faster convergence times.

^[MTSDK-3698] For MTi 100-series: when AHS is enabled, cZRU is enabled to be used in conjunction with AHS

^[MKIVFW-38, MTSDK-3809] BusId can now be selected for RS485 bus communication. Note: feature may disappear in favor of more versatile addressing features.

2.2 MTi-G-710 improvements

+ [MTSDK-3798] Added \$XSVEL to MTi-G-710 (velocity output in ASCII). Fixed GNSS lock issue.

+ [MKIVFW-34] Add NMEA ZDA string to MTi-G-700/710

+ [MTSDK-3819] Added HighPerformanceEDR filter profile to replace AutomotiveUrbanCanyon, suitable for the same applications.

2.3 MT Manager and MT SDK

+ [MTSDK-3729, MTSDK-3833, MTSDK-3816] Added boolean to Device Settings in MT Manager to enable AHS and BeiDou

+ [MTSDK-3728] Added SetOptionsFlags to XDA Data Viewer

+ [MTSDK-3689] Added licenses in .rtf format to SDK

+ [MTSDK-3717] Added AccelerationHR and RateofTurnHR contains-functions to XDA

^[MTSDK-3770] EnableGpsBeidou is now called EnableBeidou.

+ [MTSDK-3837, MFM-38] Added automatic checks on software-updates for MT Manager and Magfield Mapper

^[MTSDK-3515] No longer required to ask for a specific device; all IMUs, VRUs and AHRSS grouped under XsDeviceId::isImu ::isVru ::isAhrs

^[MTSDK-3400, MTSDK-3571, MTSDK-3805] Improved readability of Device Data View and XDA Data View

^[MTSDK-3842] Upgraded Visual Studio version in the installers to VS2015

+ [MTSDK-3744] Add several COM interface functions to doxygen

3 Bug fixes

3.1 MTi 10-series/100-series

#[MTSDK-3832] AHS Boolean is now remembered after Revert or Firmware Update

3.2 MTi-G-710

#[MTSDK-3785] Fixed Heading initialization in MTi-G-710 when AHS is enabled

^[MTSDK-3785] When setting a different platform for the GNSS chip it will now be correctly applied without workaround

#[MTSDK-3832] AHS Boolean is now remembered after Revert or Firmware Update

#[MTSDK-3699] Velocity no longer drifts when roll/pitch are not close to 0 deg

3.3 MT Manager and MT SDK

#[MTSDK-3814] Corrected naming of MTi-100 IMU in Device List

^[MTSDK-3544] Replaced image in installers for USB serial converter driver

#[MTSDK-3838] KMZ exporter no longer crashes when there is no velocity in the file

#[MTSDK-3670] KMZ exporter no longer shows 1/1/1970 when there is no UTC in the file

#[MTSDK-2965, MTSDK-1158, MTSDK-3711] Switching between windows is more robust now in MT Manager

#[MTSDK-3753] Corrected time orientation data plot in MT Manager

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
- *[MTSDK-3644]* Gyro Bias Estimation Status bit incorrect behaviour. Will be fixed in the next release.
- *[MTSDK-3841]* When AHS is enabled in the firmware, XDA processing cannot be done without AHS