

MT Software Suite

Changelog

Author: Product Manager
Last updated: November, 2020
Document: MT0228P



Symbol	Meaning
+	Added
^	Changed
!	Note
#	Fixed
-	Removed

Reference documents

- MTi 1-series Firmware changelog
- MTi 10-series Firmware changelog
- MTi 100-series Firmware changelog
- MTi 600-series Firmware changelog
- MTi-G-710 Firmware changelog (includes MTi-G-700)

MT Software Suite 2020.3

Release date: November, 2020

Release type: Beta

Compatible firmware versions: 1.5.0 (MTi-680G)

Type	Reference	Comments
Bug fix	MTSDK-4848	Fixed an MT Manager crash upon exporting data
Bug fix	MTSDK-4844	Fixed \$GPGGA message to include proper UTC time stamp
Bug fix	MTSDK-4776 MTSDK-4691	Fixed misalignment between XDA and device status after reset
Bug fix	MTSDK-4750	Fixed requesting onBoardFilterProfile using public XDA for MTi 600-series
Bug fix	MTSDK-4748	Fixed error in position output of XDA during sample time wrap-around
Bug fix	MTSDK-4678	Fixed loading baudrates of RS232 and UART from save file
Bug fix	MTSDK-4650	Fixed displaying of all SatInfo messages in data view
Bug fix	MTSDK-4639	Fixed MT Manager from becoming slow with outputs of <5Hz

MT Software Suite

Changelog

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MT Software Suite 2020.0.2

Release date: October, 2020

Release type: Stable

Compatible firmware versions: 1.8.0 (MTi 1-series v2), 1.10.0 (MTi 10-series and MTi 100-series, 5th generation), 1.10.0 (MTi-G-710, 5th generation), 1.0.0 (MTi 600-series), 1.2.2 (MTi-680G)

Type	Reference	Comments
Improvement	MTSDK-4821	Update to World Magnetic Model 2020
Improvement	MTSDK-4822	Extended NTRIP mountpoint list
Bug fix	MTSDK-4803	Fixed public XDA Ubuntu compile error
Bug fix	MTSDK-4818	Fixed compile error in C# example

MT Software Suite 2020.0.0

Release date: August, 2020

Release type: Stable

Compatible firmware versions: 1.4.0 (MTi 1-series v2), 1.10.0 (MTi 10-series and MTi 100-series, 5th generation), 1.10.0 (MTi-G-710, 5th generation), 1.0.0 (MTi 600-series), 1.2.2 (MTi-680G)

Type	Reference	Comments
Feature	MTi600-77 MTONE-313	Added support to MTi-670 and MTi-7 for the uBlox ZED family GNSS receivers
Feature	MTi600-79	Added support to MTi-670 and MTi-7 for the uBlox NEO family GNSS receivers
Feature	MTi600-99	Added support for Orientation Smoother for MTi-670
Feature	MTSDK-4232	Added notification for new firmware availability for MTi
Feature	MTSDK-4675	Added a button and graph for Free Acceleration
Feature	MTSDK-4698 MTSDK-4676 MTSDK-4693 MTSDK-4695 MTSDK-4696 MTSDK-4706 MTSDK-4724 MTSDK-4747	Added support to MT Manager for MTi-680G and MTI-320
Feature	MTSDK-4690 MTSDK-4755	Added support for Linux Ubuntu 18.04

MT Software Suite

Changelog

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Feature	MTSDK-4693	Added NTRIP client to MT Manager
Feature	MFM-105 MTSDK-4725	Added support to MFM for MTi-680G and MTi-320
Feature	MTSDK-4734	Added PVT timestamp
Improvement	MTSDK-4593	Added prevention to set double CAN IDs in GUI
Improvement	MTSDK-4663	Updated documentation to new Xsens brand identity
Improvement	MTSDK-4526	Position and velocity publishers added to ROS node
Improvement	MTSDK-4224	Simplified local frame in 3D orientation view
Improvement	MTSDK-4264	Included XDA python 3.6 whl for linux
Improvement	MTSDK-4632	GUI visual cleanup and improvements
Improvement	MTSDK-4763	Updated FTDI driver for new accessory
Bug	MTSDK-4638	Fixed ROS node high CPU load
Bug	MTSDK-4746	Fixed resource leaks in 3D orientation view
Bug	MTSDK-4512 MTSDK-4579 MTSDK-4589 MTSDK-4631 MTSDK-4636 MTSDK-4640	Fixed small bugs in the examples
Bug	MTSDK-4645	Fixed wrongly printed baud rates in ROS info messages
Bug	MTSDK-4528	Fixed not-functioning SDI conversions in XDA from IMU devices
Bug	MTSDK-4506 MTSDK-4608	Fixed MT Manager revert from String Report mode does not refresh Device Settings dialog
Bug	MTSDK-4591	Fixed unresponsive Bias Estimation status flag for MTi-620/630
Bug	MTSDK-4614	Fixed a bug where clipping flags were too high in exported files
Bug	MTSDK-4566	Fixed a visual bug in the Data View where 2 lines are displayed on one line

MT Software Suite 2019.3.6

Release date: February, 2020

Release type: Beta

Compatible firmware versions: 1.1.6 (MTi 600-series)

Type	Reference	Comments
Feature	MTi600-77 MTONE-313	Added support to MTi-670 and MTi-7 for the uBlox ZED family GNSS receivers

MT Software Suite

Changelog

Author: Product Manager

Last updated: November, 2020

Document: MT0228P



Feature	MTi600-79	Added support to MTi-670 and MTi-7 for the uBlox NEO family GNSS receivers
Feature	MTi600-99	Added support for Orientation Smoother for MTi-670
Feature	MTSDK-4232	Added notification for new firmware availability for MTi
Feature	MTSDK-4675	Added a button and graph for Free Acceleration
Improvement	MTSDK-4593	Added prevention to set double CAN IDs in GUI
Improvement	MTSDK-4663	Updated documentation to new Xsens brand identity
Improvement	MTSDK-4526	Position and velocity publishers added to ROS node
Bug	MTSDK-4638	Fixed ROS node high CPU load
Bug	MTSDK-4645	Fixed wrongly printed baud rates in ROS info messages
Bug	MTSDK-4528	Fixed not-functioning SDI conversions in XDA from IMU devices
Bug	MTSDK-4506 MTSDK-4608	Fixed MT Manager revert from String Report mode does not refresh Device Settings dialog
Bug	MTSDK-4591	Fixed unresponsive Bias Estimation status flag for MTi-620/630
Bug	MTSDK-4614	Fixed a bug where clipping flags were too high in exported files
Bug	MTSDK-4566	Fixed a visual bug in the Data View where 2 lines are displayed on one line

MT Software Suite 2019.3.2

Release date: October 1, 2019

Release type: Beta

Compatible firmware versions: 1.5.13 (MTi-7), 1.1.2 (MTi-670), 1.11.12 (MTi-G-710, 5th generation)

Included support for new GNSS/INS beta features. Refer to Firmware changelogs for more details.

MT Software Suite 2019.2.0

Release date: August 1, 2019

Release type: Stable

Compatible firmware versions: 1.5.2 (MTi 1-series v2), 1.11.2 (MTi 10-series and MTi 100-series, 5th generation), 1.0.0 (MTi 600-series), 1.11.2 (MTi-G-710, 5th generation)

MT Software Suite

Changelog

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MT Software Suite 2019

Improvements & features			
Feature	MTSDK-4570	+	Support of MTi 600-series in MT Software Suite + Examples
Improvement	MTSDK-4458	^	
Improvement	MTSDK-4429	^	
Improvement	MTSDK-4216	^	Enhanced NMEA support for MT Manager
Improvement	MTSDK-4449	^	
Improvement	MTSDK-4569	^	Multiple sensor support for ROS node
Feature	MTSDK-4558	+	
Feature	MTSDK-4574	+	Added CAN Support for MT Manager
Improvement	MTSDK-4561	^	
Improvement	MTSDK-4542	^	Minor improvements
Improvement	MTSDK-4516	^	Included WMM2015v2
Improvement	MTSDK-4429	^	Feedback in message window when scanning for device
Bug Fixes			
Bug	MTSDK-4544	#	Added Filter Settings to settings file
Bug	MTSDK-4543	#	Update battery level for docked MTw
Bug	MTSDK-4484	#	
Bug	MTSDK-4483	#	
Bug	MTSDK-4471	#	
Bug	MTSDK-4468	#	minor bugs fixed
Bug	MTSDK-4463	#	
Bug	MTSDK-4449	#	

Magnetic Field Mapper

Improvements & features			
Feature	MFM-84	+	Support of MTi 600-series in MFM
Improvement	MFM-96	^	Remember MFM window size
Bug Fixes			
Bug	MFM-95	#	Unable to MFM Link system

MT Software Suite 2019.1.2

Release date: March 20, 2019

Release type: Beta

Compatible firmware versions: 1.5.2 (MTi 1-series v2), 1.11.2 (MTi 10-series and MTi 100-series, 5th generation), 1.11.2 (MTi-G-710, 5th generation)

MT Software Suite 2019

Improvements & features			
Improvement	MTSDK-4516	^	Update to World Magnetic Model 2015v2
Improvement	MTSDK-4427	^	Removed unsupported status flag for connected devices
Improvement	MTSDK-4215	^	Improved NMEA support

MT Software Suite

Changelog

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Improvement	MTSDK-4441	^	
Improvement	MTSDK-4216	^	
Improvement	MTSDK-4429	^	
Improvement	MTSDK-4458	^	

Bug Fixes

Bug	MTSDK-4471	#	Fixed an unexpected crash of MT Manager when an invalid alignment matrix is entered
Bug	MTSDK-4473	#	Fixed an unexpected change of default export settings

MT Software Suite 2019.0.1

Release date: January 31, 2019

Release type: Stable

Compatible firmware versions: 1.4.0 (MTi 1-series v2), 1.10.0 (MTi 10-series and MTi 100-series, 5th generation), 1.10.0 (MTi-G-710, 5th generation)

MT Software Suite

Improvements & features		
Improvement	MTSDK-4249	^
Improvement	MTSDK-4280	^
Improvement	MTSDK-3562	^
Improvement	MTSDK-3915	^
New Feature	MTSDK-4444	+
New Feature	MTSDK-4160	+
Improvement	MTSDK-4195	^
Improvement	MTSDK-3960	^
Improvement	MTSDK-4235	^
Improvement	MTSDK-4237	^
Improvement	MTSDK-4251	^
Improvement	MTSDK-4261	^
New Feature	MTSDK-4107	+
Improvement	MTSDK-4244	^
New Feature	MTSDK-4390	+
New Feature	MTSDK-4398	+
New Feature	MTSDK-4424	+
New Feature	MTSDK-4202	+
New Feature	MTSDK-4295	+
Improvement	MTSDK-4207	^
Improvement	MTSDK-4209	^
Improvement	MTSDK-4230	^
Improvement	MTSDK-4086	^
Improvement	MTSDK-3908	^
Improvement	MTSDK-4299	^
Improvement	MTSDK-4309	^
Improvement	MTSDK-4435	^

MT SDK & MFM Examples: Added support for GNSS output, improved and several updated

Synchronization options: added MTi-7 support, added pulse width limits

MT Manager: Many small improvements and new features, among which:

- new icons for all buttons
- Gyro Bias Estimation window

MT Software Suite

Changelog

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Improvement	MTSDK-3548	^	
New Feature	MTSDK-4302	+	
New Feature	MTSDK-4307	+	MT Manager Plots: added sensor temperature plot
Improvement	MTSDK-3682	^	
Improvement	MTSDK-3739	^	Linux: improvements for installer
Improvement	MTSDK-2953	^	
Improvement	MTSDK-4262	^	Exporter: improvements
Improvement	MTSDK-4049	^	
New Feature	MTSDK-3977	+	
New Feature	MTSDK-4011	+	Public XDA: first release and improvements on existing XDA
New Feature	MTSDK-4106	+	
Improvement	MTSDK-3911	^	MT SDK: removed support for Legacy devices and support for
Improvement	MTSDK-4077	^	Python 3.6 and 3.7

Bug Fixes

Bug	MTSDK-3239	#	
Bug	MTSDK-4477	#	MT SDK Examples: Fixed several compile warnings and inconsistencies
Bug	MTSDK-4268	#	
Bug	MTSDK-1126	#	Synchronization options: Fixed behavior of voltage line indicator
Bug	MTSDK-4037	#	
Bug	MTSDK-4417	#	MT Manager: several small bug GUI fixes
Bug	MTSDK-4391	#	
Bug	MTSDK-4052	#	
Bug	MTSDK-4164	#	
Bug	MTSDK-4180	#	MT Manager plots: several small bug fixes
Bug	MTSDK-4340	#	
Bug	MTSDK-4198	#	
Bug	MTSDK-4175	#	
Bug	MTSDK-4153	#	Linux: small bug fix where sensor stayed in config mode
Bug	MTSDK-4213	#	
Bug	MTSDK-4217	#	FTDI: fixed small bugs

Magnetic Field Mapper

Improvements & features

Improvement	MFM-65	^	
Improvement	MFM-67	^	
Improvement	MFM-71	^	
Improvement	MFM-77	^	Improved MFM feedback and device support
New Feature	MFM-58	+	
New Feature	MFM-70	+	

Bug Fixes

Bug	MFM-35	#	
Bug	MFM-52	#	
Bug	MFM-64	#	Fixed several bugs in the MFM application
Bug	MFM-69	#	

MT Software Suite

Changelog

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MT Software Suite 4.9.1

Release date: July 1, 2018

Release type: Beta

Compatible firmware versions: 1.2.7 (MTi 1-series v2), 1.7.4 (MTi 10-series and MTi 100-series, 4th/5th generation), 1.7.4 (MTi-G-7XX, 4th generation) and 1.7.4 (MTi-G-710, 5th generation)

- # [MTSDK-4321] GNSS Configuration shows up for devices with no GNSS support.
- # [MTSDK-4313] MTM crashes when opening status graph with MTi-7 set to high-rate data preset.
- # [MTSDK-4296] Representative motion (RepMo) not working with MTi-7.
- # [MTSDK-4281] Matlab example 'mainFileLoader' does not work for MTi-7.
- # [MTSDK-4280] Matlab example not working.
- ^ [MTSDK-4273] xda.log should not be created until xdaSetLogPath is called.
- # [MTSDK-4268] Linux xda_c_cpp example has compile error.
- ^ [MTSDK-4266] MT installer does not install all features by default.
- ^ [MTSDK-4249] Add GNSS output for MTi-7/MTi-G-710 to XDA C/C++ examples.
- + [MTSDK-4237] Ability to copy more than one line from the message window in MTM.
- # [MTSDK-4223] Alignment matrix changes by itself upon clicking 'Write to MT'.
- ^ [MTSDK-4222] Add prebuilt examples to the MTSS installer.
- # [MTSDK-4217] Data overflows with FTDI devices.
- # [MTSDK-4202] RotLocal and RotSensor support in load and save config.
- + [MTSDK-4201] Update supportedUpdateRates for high rate (HR) data.
- + [MTSDK-4196] No build time in MT Manager / MFM.
- + [MTSDK-4195] Add max and min limits for pulse width setting in sync options dialog.
- + [MTSDK-4192] MTi-7 return supported update rates for baro pressure.
- + [MTSDK-4191] Update/add documentation links in MT Manager with MTi-7 release.
- ^ [MTSDK-4190] SatInfo should not be enabled for preset "Onboard".
- + [MTSDK-4184] Warning setting sync settings MTi-7 with In 1.
- # [MTSDK-4153] In Ubuntu, the MTi stays in Config Mode after pressing Revert.
- # [MTSDK-4151] Fix libicu links in linux MT Manager and MFM readmes.
- # [MTSDK-3960] Show version in title bar of MT Manager.
- # [MTSDK-3915] use LoadLogFile functions in MatLab example (mainFileLoader.m).
- + [MTSDK-3562] Add recording mtb file to src_cpp example.
- # [MTSDK-3258] Seconds are not exported, result is only zeros.
- # [MTSDK-3235] Text "scenario" shows for the MTi-10 in MT manager.
- # [MFM-69] Error 286 while trying to perform MFM with MTi-7 modules.
- ^ [MFM-35] MFM resets magnetic calibration.
- # [MTSDK-4226] Multiple tabs opening 'More information' link after toggling 'Check for Beta versions'.
- # [MTSDK-3877] Extended ASCII characters support with createLogFile() in MT SDK.
- + [MTSDK-4208] Add HR calibrated outputs preset to MT Manager Output Config dialog.
- + [MTSDK-4207] Add HR calibrated outputs to MT Manager Output Config dialog and remove SCR.
- + [MTSDK-4289] Add new embedded examples for MTi-1s to MTSS installer.
- ^ [MTSDK-4189] Clean-up of doxygen comments and public code.

MT Software Suite

Changelog

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MT Software Suite 4.8.6

Release date: April 10, 2018

Release type: Beta

Compatible firmware versions: 1.2.5 (MTi 1-series), 1.7.4 (MTi 10-series and MTi 100-series, 4th/5th generation), 1.7.4 (MTi-G-7XX, 4th generation) and 1.7.4 (MTi-G-710, 5th generation)

+ [MTSDK-4107] Added MTi-7 support in MT Software Suite.

MT Software Suite 4.8.2

Release date: October 10, 2017

Release type: Beta

Compatible firmware versions: 1.2.1 (MTi 1-series), 1.7.4 (MTi 10-series and MTi 100-series, 4th/5th generation), 1.7.4 (MTi-G-7XX, 4th generation) and 1.7.4 (MTi-G-710, 5th generation)

+ [MTSDK-4011] Added possibility to use XDA without (virtual) COM port.

^ [MTSDK-4012] Improved data processing in src_cpp example.

[MTSDK-4029] Fixed a bug causing XsDevice::createConfigFile to fail for a 5th generation MTi. This consequently fixed the "Save Settings" operation in MT Manager's MT Settings dialog for such an MTi device.

MT Software Suite 4.8.0

Release date: July 5, 2017

Release type: Stable

Compatible firmware versions: 1.2.1 (MTi 1-series), 1.7.2 (MTi 10-series and MTi 100-series), 1.7.3 (MTi-G-7XX, 4th generation) and 1.7.2 (MTi-G-710, 5th generation)

+ [MTSDK-3231] Added UTC time input and output to 1-series firmware.

[MTSDK-4001] Added higher baud rates to Low Level Communication Protocol Documentation.

+ [MTSDK-3998] Calibrated Acceleration and Rate of Turn measurements available at 1 kHz.

+ [MTSDK-3982] Added possibility to change navigation platform settings of GNSS module.

+ [MTSDK-3998] Calibrated Acceleration and Rate of Turn measurements available at 1 kHz.

- [MTSDK-3974] Removed unused/unnecessary sync options from GNSS clock input.

^ [MTSDK-3231] Full path and filename in MT Manager is now shown.

[MTSDK-3957, MTSDK-3975] Fixed bug with onLiveDataAvailable event handler, this caused the MATLAB example to not work properly.

[MFM-43] Magnetic Field Mapper now correctly uses sensor alignment matrix.

MT Software Suite

Changelog

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MT Software Suite 4.7.2

Release date: March 31, 2017

Release type: Beta

Compatible firmware versions: 1.0.18 (MTi 1-series), 1.4.18 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 4.3.1 (MTw Awinda DK)

! [MTSDK-3407] The legacy mode will be removed from the MTi product range in future releases. As of release 4.5 (January 18th, 2016), the Legacy mode is already deprecated.

+ [MTSDK-3958,MTSDK-3685, MKIVFW-103] Added 5th generation MTi support, see BASE.xsens.com.

[MTSDK-3957] Fixed bug with onLiveDataAvailable event handler, which caused e.g. that the MATLAB example didn't work properly.

Fixed a bug where the ASCII-exporter sometimes resulted in a crash.

MTw Awinda2 DK, data prior to start recording trigger is no longer in MTB file.

Fixed a bug where sometimes data was missing in a recording with an Awinda system.

MTw Awinda recording is longer than expected after flushing.

Awinda Interval transition recording now sends the correct amount of pulses.

MTB file of Awinda recording no longer contains corrupt messages.

Timeout configuration of Awinda Station and trackers.

In MT SDK you can now perform an orientation reset of multiple MTw's strapped to an object.

Extended buffering with a typical value of 90 seconds is available by enabled flash memory on MTw (Firmware update required).

Ability to lock specific trackers to a specific base stations (to avoid that trackers connect to foreign base stations).

MT Software Suite 4.7.0

Release date: December 21, 2016

Release type: Stable

Compatible firmware versions: 1.1.1 (MTi 1-series) and 1.5.1 (MTi 10-series, MTi 100-series and MTi-7XX)

+ [MTSDK-3673, MTSDK-3857, MTSDK-3874, MTSDK-3853, MTSDK-3700, MTSDK-3701] Added ICC to MT SW Suite.

+ [MTSDK-3872, MTSDK-3854, MTSDK-3855,] Representative Motion mode, both in firmware and MT Manager.

+ [MTSDK-3856, MTIONE-137] Possibility to store ICC data to non-volatile memory.

^ [MTSDK-3698, MTSDK-3787, MTSDK-3807] Gyro Bias Estimation using the 'noRotation' update uses a stillness detection mechanism which is more robust to slow rotations and facilitates faster convergence times - this improves the functionality of SetNoRotation and AHS (100-series) features.

^ [MTSDK-3859] Improved and simplified Gyro Bias estimation status bits.

^ [MTSDK-3698] For MTi 100-series: when AHS is enabled, 'noRotation' update with stillness detection is continuously on in conjunction with AHS.

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

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

MT Software Suite

Changelog

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- + [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 AHRs grouped under XsDeviceId::ismu ::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.
- ^ [MTSDK-3384] Made the StatusWord legend vertical, improving readability.
- ^ [MTSDK-3623, MTSDK-3675, MTSDK-3805] Sync lines naming less ambiguous, MTi 1-series sync lines renumbered to match other MTi products.
- # [MTSDK-3832] AHS Boolean is now remembered after Revert or Firmware Update.
- # [MTSDK-3785] Fixed Heading initialization in MTi-G-710 when AHS is enabled.
- # [MTSDK-3699] Velocity no longer drifts when roll/pitch are not close to 0 deg .
- # [MTSDK-3814] Corrected naming of MTi-100 IMU in Device List.
- ^ [MTSDK-3544] Replaced image in installers for USB serial converter driver.
- # [MTSDK-3838, MTSDK-3690] KMZ exporter no longer crashes when there is no velocity in the file.
- # [MTSDK-3690] ASCII-exporter no longer results in a crash.
- # [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.
- # [MTSDK-3841] When processing a file, a choice can now be made to use AHS or not.
- # [MTSDK-3913] When processing a file without a date, the ambiguous World Magnetic Model input date no longer causes inconsequent heading initialization.

MT Software Suite 4.6.5

Release date: October 10, 2016

Release type: Beta

Compatible firmware versions: 1.0.18 (MTi 1-series), 1.4.18 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 4.0.2 (MTw Awinda DK)

- + [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 AHRs grouped under XsDeviceId::ismu ::isVru ::isAhrs.

MT Software Suite

Changelog

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- ^ [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.
- # [MTSDK-3832] AHS Boolean is now remembered after Revert or Firmware Update.
- # [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.
- # [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.
- # [MTSDK-3790] MTw2 orientation reset now is included in .mtb file using MTM.
- # [MTSDK-3789] Filter init is included when reprocessing MTw2 data in XDA.
- # [MTSDK-3569] MTw User Manual has been updated in respect to 'Object Reset'.
- # [MTSDK-3746] MTM closes/crashes when opening a file after switching off the radio (MTw2).
- # [MTSDK-3583] Wireless configuration should not be available in file mode.
- # [MTSDK-3760] Start/stop function has no more duplicates in Awinda2 sync settings.
- # [MTSDK-3815] Awinda2 .mtb file no more fails to load.

MT Software Suite 4.6.3

Release date: August 10, 2016

Release type: Beta

Compatible firmware versions: 1.0.18 (MTi 1-series) and 1.4.16 (MTi 10-series, MTi 100-series and MTi-G-7XX)

- ^ [MTSDK-3698, MTSDK-3787] Gyro Bias Estimation improved with faster convergence times (not for MTi-G-7xx).
- ^ [MTSDK-3698] For MTi 100-series: when AHS is enabled, cZRU is enabled to be used in conjunction with AHS.
- + [MTSDK-3798] Added \$XSVEL to MTi-G-710 (velocity output in ASCII).
- + [MTSDK-3729] Added boolean to Device Settings in MT Manager to enable AHS easier.
- + [MTSDK-3689] Added licenses in .rtf format to SDK.

MT Software Suite 4.6.0

Release date: July 13, 2016

Release type: Stable

Compatible firmware versions: 1.0.16 (MTi 1-series) and 1.4.12 (MTi 10-series, MTi 100-series and MTi-G-7XX)

- + [MTSDK-3237] C++ SDK Example for MTw Awinda has been fixed.

MT Software Suite

Changelog

Author: Product Manager

Last updated: November, 2020

Document: MT0228P



- + [MTSDK-3522] 'Awinda Monitor' example now supports the MTw Awinda.
- + [MTSDK-3553] Consistent behaviour of Awinda Monitor examples.
- + [MTSDK-3542] Provide code examples for MTw2 in MT SDK.
- + [MTSDK-3332] Matlab Example now supports multiple MTw's.
- # [MTSDK-3473] Device Data Viewer and XDA Data Viewer are now correctly shown in conjunction with other graphs.
- # [MTSDK-3582] MT Manager no longer crashes when a graph is opened on second screen.
- # [MTSDK-3028] When opening an MTw recorded file in MT Manager, now the 3D Orientation View shows the correct initial orientation.
- # [MTSDK-821] Awinda update rate and channel now look like dropdowns.
- # [MTSDK-1122] FW and HW version information for Awinda station and Awinda dongle devices is now shown.
- # [MTSDK-1124] The Synchronization Options dialog now also works for an Awinda system that is measuring.
- # [MTSDK-2841] Sample time fine is now selectable during export.
- # [MTSDK-3573] SampleTimeFine export now outputs correct values.
- # [MTSDK-3558] Output Configuration has been cleaned up for MTw2.
- # [MTSDK-3586] ASCII exported is now compliant to the csv format; it has no delimiter at the end of each exported row anymore.
- # [MTSDK-3443] Sync options for MTw2 have been removed in MT Manager.
- # [MTSDK-2866] Text: Power off menu should reflect that it is only applicable to MTw.
- # [MTSDK-3482] MTM now does show status information for MTw2/MTx2.
- # [MTSDK-3497] MTM now does reset & reopen serial port when revert changes baudrate.
- # [MTSDK-3545] Cancelling during exporting from MTM now does delete file.
- # [MTSDK-3600] Fixed an issue where Awinda 2 always had positive high values for the magnetometer signal.
- # [MTSDK-3517] Mtw2 packetcount is incorrect.
- # [MTSDK-3519] The Linux readme.mtm shows as multimedia file in Ubuntu.
- # [MTSDK-3523] Unable to export kmz/kml in Linux (Ubuntu).
- # [MTSDK-3525] XDA returns FALSE from gotoConfig, but lastResult = XRV_OK.
- # [MTSDK-3549] The filename of the Linux installers is incorrect.
- # [MTSDK-3533] Restored orientation/filter output for legacy MTw.
- # [MTSDK-3643] csv export of multi-MTw2 recording no longer misses data.
- # [MTSDK-3651] XDA no longer drops perfectly valid messages while reading .mtb.
- + [MTSDK-3568, MTSDK-3577, MTSDK-3595] Documentation updated for MTw Awinda.
- + [MTSDK-3543] Document available functions of XsDevices.
- + [MTSDK-1872] Allow magnetic field mapping software to choose among the MTw wirelessly connected.

MT Software Suite 4.5.6

Release date: April 11, 2016

Release type: Beta

Compatible firmware versions: 1.0.14 (MTi 1-series), 1.4.10 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 4.0.2 (MTw Awinda DK)

^ [MTSDK-1813] High gyro bias is not successfully estimated.

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

MT Software Suite

Changelog

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- + [MTSDK-3568, MTSDK-3577, MTSDK-3595] Documentation updated for MTw2.
- # [MTSDK-3644] Fixed bias estimation status bits.
- # [MTSDK-3582] Updated application framework for MT Manager prevents crashing of graphs.

MT Software Suite 4.5.4

Release date: April 11, 2016

Release type: Beta

Compatible firmware versions: 1.0.12 (MTi 1-series), 1.4.6 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 4.0.1 (MTw Awinda DK)

- [MTSDK-3605] Create designated filter profiles for 1-series to enable better sensor-specific tuning. This changes the filter profile naming and numbering.
- ^ [MTSDK-3587] MTi-1 series Low_mag_dep filter profile replaced with North_reference filter profile.
- ^ [MTSDK-3592] MTi-1 series inclination performance improved.
- + [MTSDK-3568, MTSDK-3577, MTSDK-3595] Documentation updated for MTw2.
- # [MTSDK-3586] Fixed delimiter at the end of exported row in ASCII files.
- # [MTSDK-3573] Corrected Sampletimefine for MTw2.
- # [MTSDK-2841] Sampletimefine is no longer exported in ASCII files for legacy MTw (not supported).
- + [MTSDK-1122] FW and HW version information for Awinda station dongle devices are now correctly shown in the Device List.
- ^ [MTSDK-821] Improved selection of update rate for MTw in MT Manager.
- ^ [MTSDK-1124] The Synchronization Options dialog is now more robust for Awinda systems.
- # [MTSDK-3533] Restored orientation/filter output for legacy MTw.

MT Software Suite 4.5.2

Release date: February 19, 2016

Release type: Beta

Compatible firmware versions: 1.0.11 (MTi 1-series), 1.4.5 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 3.1.4 (MTw Awinda DK)

- + [MTSDK-3237] C++ SDK Example for MTw Awinda has been fixed.
- + [MTSDK-3522] 'Awinda Monitor' example now supports the MTw Awinda.
- + [MTSDK-3553] Consistent behaviour of Awinda Monitor examples.
- + [MTSDK-3542] Provide code examples for MTw2 in MT SDK.
- + [MTSDK-3332] Matlab Example now supports multiple MTw's.
- + [MTSDK-3404] Support for Windows 10.
- # [MTSDK-3028] When opening an MTw recorded file in MT Manager, now the 3D Orientation View shows the correct initial orientation.
- # [MTSDK-821] Awinda update rate and channel now look like dropdowns.
- # [MTSDK-1122] FW and HW version information for Awinda station and Awinda dongle devices is now shown.
- # [MTSDK-1124] The Synchronization Options dialog now also works for an Awinda system that is measuring.

MT Software Suite

Changelog

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- # [MTSDK-2841] Sample time fine is now selectable during export.
- # [MTSDK-3573] Sampletimefine export now outputs correct values.
- # [MTSDK-3558] Output Configuration has been cleaned up for MTw2.
- # [MTSDK-3586] ASCII exported is now compliant to the csv format; it has no delimiter at the end of each exported row anymore.
- # [MTSDK-3443] Sync options for MTw2 have been removed in MT Manager.
- # [MTSDK-2866] Text: Power off menu should reflect that it is only applicable to MTw.
- # [MTSDK-3482] MTM does not show status information for MTw2/MTx2.
- # [MTSDK-3497] MTM does not reset & reopen serial port when revert changes baudrate.
- # [MTSDK-3545] Cancelling during exporting from MTM does not delete file.
- # [MTSDK-3600] Fixed an issue where Awinda 2 always had positive high values for the magnetometer signal.
- # [MTSDK-3517] Mtw2 packetcount is incorrect.
- # [MTSDK-3519] The Linux readme.mtm shows as multi media file in Ubuntu.
- # [MTSDK-3523] Unable to export kmz/kml in Linux (Ubuntu).
- # [MTSDK-3525] XDA returns FALSE from gotoConfig, but lastResult = XRV_OK.
- # [MTSDK-3549] The filename of the linux installers is incorrect.
- + [MTSDK-3543] Document available functions of XsDevices.
- + [MTSDK-1872] Allow magnetic field mapping software to choose among the MTw wirelessly connected.

MT Software Suite 4.5.0

Release date: January 18, 2016

Release type: Stable

Compatible firmware versions: 1.0.11 (MTi 1-series), 1.4.5 (MTi 10-series, MTi 100-series and MTi-G-7XX) and 3.1.4 (MTw Awinda DK)

- ! [MTSDK-3407] The legacy mode will be removed from the MTi product range in future releases. In release 4.5 (this release), the Legacy mode is already deprecated.
- ! The MTw is no longer supported in MT SW Suite 4.5. The latest supported software release is SW Suite 4.2.1, available from www.xsens.com.
- + [MTSDK-3202] Added MTi 1-series support in MT Software Suite.
- + [MTSDK-3297] Added embedded example for MTi 1-series on [ARM® mbed™ website](http://ARM.com/mbed).
- + [MTSDK-3255, 3486] Added Firmware Update Library for embedded platforms.
- + [MTSDK-3459] Added AutoStore and AutoGoToMeasurement flags.
- ^ [MTSDK-3407] Legacy mode deprecated for MTi MkIV; normal mode is default mode for all products now.
- ^ [MTSDK-3410] FreeAcceleration output improved after periods of excitation.
- ^ [MTSDK-3512] Significantly improved.
- + [MTSDK-3386] Beta–support for MTw2.