

Release Notes

Firmware release for fourth generation MTi

Author: Product Manager

Date: February 14, 2018



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

1 About this release

This document details the release notes for the Firmware and Firmware Updater for the fourth generation MTi. The details about the entire MTi product portfolio can be found in Table 1. The details of the components released along with their release versions are listed in Table 2. The other components that are unaffected by this release are shown in Table 6. The fourth generation MTi's can be identified by the last four digits of the DeviceID (or SerialNumber). If the last four digits are lower than hexadecimal 2000 they are the 4th generation MTi's, otherwise they belong to the 5th generation of MTi devices.

Table 1: Overview of the MTi Product Portfolio

Product Family	Product versions	Generation	Status
1-series	MTi-1 (IMU) MTi-2 (VRU) MTi-3 (AHRS)	-	Active
10-series	MTi-10 (IMU) MTi-20 (VRU) MTi-30 (AHRS)	4 th generation	Inactive
		5 th generation	Active
100-series	MTi-100 (IMU) MTi-200 (VRU) MTi-300 (AHRS)	4 th generation	Inactive
		5 th generation	Active
100-series	MTi-G-700 (GPS/INS) MTi-G-710 (GNSS/INS)	4 th generation	Inactive
100-series	MTi-G-710 (GNSS/INS)	5 th generation	Active

Table 2: Release versions

Release component	Product applicability	Current version	New version	Comments
Firmware	10-series 100-series MTi-G-700 MTi-G-710 (4 th generation)	1.7.4	1.8.2	The new FW version can be downloaded for use only using the Firmware Updater. Shipped fourth generation MTi devices will not have the new firmware. See Table 3 for details.
Firmware Updater	MTi Product Family (Table 1)	4.2.1	4.2.2	See Table 4 for details.

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2 Notes

- The legacy mode support for 4th generation MTi products was deprecated as of release of January 2016.
- The fifth generation MTi products no longer support legacy mode.
- **Firmware v1.8.2** is the final firmware version for the fourth generation MTi. No further upgrades are to be expected for the fourth generation MTi.
- **MT Software Suite v4.8.0** supports the fourth generation MTi. This software suite version will be the last to offer support to the fourth generation MTi. Future versions of the MT Software Suite will not be tested with the fourth generation MTi.
- **Firmware Updater v4.2.2** will be the last version to support fourth generation MTi.

3 Compatibility

Software platform	Notes on support
Windows 7 32-bit, Windows 8 64-bit, Windows 10 64-bit and Linux 32-bit (Ubuntu 16.04)	Tested, no official support
Windows 7 64-bit, Linux 64-bit (Ubuntu 16.04)	Officially supported

4 Bug fixes, improvements and features

This section details the list of issues tackled in this release for the release components of Firmware (Table 3) and the Firmware Updater (Table 4). Table 5 reports the known bugs and limitations.

Table 3: Firmware

Solved Bugs	<ul style="list-style-type: none">#[MKIVFW-48]^[MKIVFW-98]#[MKIVFW-124]#[MKIVFW-125]#[MKIVFW-128]#[MKIVFW-129]-[MKIVFW-130]^[MKIVFW-132]#[MKIVFW-150]	<ul style="list-style-type: none">A settings problem can lockup the EMTS clientMAG clip flags are not sticky<i>ReqAlignmentRotation</i> does not return parameterClipping flags for the magnetometer in MTi-G-710 incorrectMTi-G-700 UTC periodically changes from the correct value to an incorrect onePosition data often wrong in first packetMTi-G-700/MTi-G-710 FW should not support update rates of 2 and 1 Hz for <i>GnssPvtData</i> and <i>GnssSatInfo</i>Status word bit for selftest is 0 with SCR data<i>reqUTCtime</i> returns wrong date+time (tomorrow) for MTi-G-710
New feature	+ [MKIVFW-144]	Add <i>ReqHardwareVersion</i> message to MTi Product Family (Table 1)
Improvement	# [MKIVFW-112]	Remember ICC DDT value over <i>gotoConfig/gotoMeasurement</i>

Table 4: Firmware Updater

Solved Bugs	# [FWU-210]	Firmware Updater does not update filter profiles for RS422 and RS485 devices for fourth generation MTi.
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Table 5: Known bugs and limitations

Bug		
	[MTSDK-3936]	UART example on mbed does not work properly due to change in mbed version
	[MTSDK-3988]	C Runtime component not installed, resulting in MT Manager and Magnetic Field Mapper not running. See https://base.xsens.com/hc/en-us/articles/115002310609 for instructions on how to install the C Runtime component via Windows Update. There may be an error when running MT Manager on Linux that libicu52 cannot be found. The library can be downloaded here. http://packages.ubuntu.com/trusty/amd64/libicu52/download

5 Product overview and current status

This section reports in Table 6 the relative release status of all the MTi product components.

Table 6: Complete list of product series and their release status

Components	Product applicability	Stable version	Beta version	Comments
Firmware	10-series 100-series	1.7.2	1.7.4	5 th generation
	MTi-G-710	1.7.2	1.7.4	5 th generation
	1-series	1.2.1	-	
	10-series 100-series MTi-G-700 MTi-G-710	1.8.2	-	Affected by this release. (Fourth generation)
MT Software Suite	1-series	4.8.0	4.8.2	
	10-series 100-series MTi-G-700 MTi-G-710	4.8.0	-	4 th generation
	10-series 100-series MTi-G-710	4.8.0	4.8.2	5 th generation
Firmware Updater	MTi Product Family (Table 1)	4.2.2	-	Affected by this release.