### Changelog

Author: Product Manager Last updated: December, 2020

Document: MT0224P



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

#### Reference documents

- MT Software Suite changelog

### Version 1.8.1

Applies to: MTi 1-series v2 (MTi-1/MTi-2/MTi-3)

Release date: December, 2020

Compatible MT Software Suite version: 2020.0.2

Release type: Stable

Туре	Reference	Comments
Bug fix	MTI600-298	Fixed a bug where MFM results were not written to the device

#### Version 1.8.0

Applies to: MTi 1-series v2 (MTi-1/MTi-2/MTi-3)

Release date: October, 2020

Compatible MT Software Suite version: 2020.0.2

Release type: Stable

Туре	Reference	Comments
Improvement	MTIONE-356	Update to World Magnetic Model 2020
Improvement MTIONE-224		Updated ReqConfiguration to also return date and time

Changelog

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**Version 1.5.20** 

Applies to: MTi-7

Release date: March 30, 2020

Compatible MT Software Suite version: 2019.3.2

Release type: Beta

Туре	Reference	Comments
Improvement	MTIONE-338	Increased heading performance for GeneralMag filter profile

**Version 1.5.16** 

Applies to: MTi-7

Release date: December 11, 2019

Compatible MT Software Suite version: 2019.3.2

Release type: Beta

Improvements & features			
Feature	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

#### Version 1.5.2

Applies to: MTi 1-series v2 (MTi-1/MTi-2/MTi-3/MTi-7)

Release date: March 20, 2019

Compatible MT Software Suite version: 2019.1.2

Release type: Beta

Improvements & features				
Improvement	MTIONE-318	۸	Update to World Magnetic Model 2015v2	
Bug Fixes				
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### Changelog

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Version 1.4.0

Applies to: MTi 1-series v2 (MTi-1/MTi-2/MTi-3/MTi-7)

Release date: February 14, 2019

Compatible MT Software Suite version: 2019.0.1

Release type: Stable

Improvements				
& features				
Improvement	MTIONE-223	٨		
Improvement	MTIONE-310	۸		
New Feature	MTIONE-130	+		
New Feature	MTIONE-257	+	Enabled skip factor on 800Hz HR outputs, preparation for future	
New Feature	MTIONE-288	+	features/releases	
New Feature	MTIONE-294	+		
New Feature	MTIONE-295	+		
New Feature	MTIONE-297	MTIONE-297 <b>+</b>		
Bug Fixes				
Bug	MTIONE-125	#		
Bug	MTIONE-172	#		
Bug	MTIONE-243	#		
Bug	MTIONE-269	#	Several fixes on UTC and PVT timing and other small fixes	
Bug	MTIONE-285	#		
Bug	MTIONE-301	#		
Bug	MTIONE-303	#		

#### Version 1.2.7

Applies to: MTi 1-series v2 (MTi-1/MTi-2/MTi-3)

Release date: July 1, 2018

Compatible MT Software Suite version: 4.9.1

Release type: Stable

- + [MTIONE-191] MTi 1-series v2 firmware support.
- # [MTIONE-269] Device resets itself if data is not read fast enough when in SPI/I2C mode.
- # [MTIONE-268] Problems with writing emts.
- # IMTIONE-258] Z-value FreeAcceleration has an offset of 9.8 for MTi-2 and MTi-3.
- # [MTIONE-214] Acceleration data often wrong in first packet.
- ^ [MTIONE-165] Sensor and orientation data in different packets for update rates lower than 50 Hz.
- # [MTIONE-164] Heading reset issue with low output onboard orientation output.
- # [MTIONE-267] Combination of HR acc/gyr and normal rate acc/gyr not always possible.
- + /MTIONE-205] Enable glitch filter for capturing inputs making it resistant to noisy input pulses.
- ^ [MTIONE-155] Remember ICC DDT value over gotoConfig/gotoMeasurement.

### Changelog

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Document: MT0224P



Version 1.2.6

Applies to: MTi-7

Release date: June 1, 2018

Compatible MT Software Suite version: 4.8.6

Release type: Stable

Purther performance tuning has been completed with respect to the engineering firmware.

Version 1.2.5

Applies to: MTi-7 v2

Release date: April 10, 2018

Compatible MT Software Suite version: 4.8.6

Release type: Beta

+ First release for MTi-7.

Version 1.2.1

Applies to: MTi 1-series Release date: July 5, 2017

Compatible MT Software Suite version: 4.8

Release type: Stable

- + [MTSDK-3231] Added UTC time input and output to 1-series firmware.
- + [MKIVFW-100, MTSDK-3998] Calibrated Acceleration and Rate of Turn measurements available at 1 kHz.
- # [MTIONE-154] Fixed a bug where the MTi-1 could sporadically reset upon going to measurement.

#### Version 1.1.1

Applies to: MTi 1-series

Release date: December 21, 2016

Compatible MT Software Suite version: 4.7

Release type: Stable

- + [MTIONE-135, MKIVFW-81] Added ICC to Firmware. ICC is a beta feature for MTi-G-700/710.
- + [MTIONE-136, MTSDK-3872, MTSDK-3854, MTSDK-3855] Representative Motion mode, both in firmware and MT Manager.
- + IMTSDK-3856, MTIONE-137] Possibility to store ICC data to non-volatile memory.

### Changelog

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^ [MTSDK-3698, MTSDK-3787, MTSDK-3807] Gyro Bias Estimation using the No Rotation Update uses a stillness detection mechanism which is more robust to slow rotations and facilitates faster convergence times - this improves the functionality of NRU and AHS features.

^ [мк/vFw-78, мтspk-3859] Improved and simplified Gyro Bias estimation status bits.

**Version 1.0.18** 

Applies to: MTi 1-series

Release date: August 10, 2016

Compatible MT Software Suite version: 4.6.3

Release type: Beta

^ [MTSDK-3698, MTSDK-3787] Gyro Bias Estimation improved with faster convergence times.

**Version 1.0.16** 

Applies to: MTi 1-series

Release date: July 12, 2016

Compatible MT Software Suite version: 4.6

Release type: Stable

+ [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.

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

# [MTIONE-120] MTi 1-series I<sup>2</sup>C communication not working when using full write/read transfer.

**Version 1.0.14** 

Applies to: MTi 1-series

Release date: May 20, 2016

Compatible MT Software Suite version: 4.5.6

Release type: Beta

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### Changelog

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**Version 1.0.12** 

Applies to: MTi 1-series

Release date: April 11, 2016

Compatible MT Software Suite version: 4.5.4

Release type: Beta

^[MTSDK-3605] 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 4.5.2	Filter profiles SW Suite	Filter profiles SW Suite 4.5.4
beta (all MTi products)	4.5.4 beta (MTi 1-series)	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)

<sup>^ [</sup>мтsdк-3587] MTi-1 series Low\_mag\_dep filter profile replaced with North\_reference filter profile.

**Version 1.0.11** 

Applies to: MTi 1-series

Release date: January 18, 2016

Compatible MT Software Suite version: 4.5

Release type: Stable

+ First release for MTi 1-series.

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<sup>^ [</sup>MTSDK-3592] MTi-1 series inclination performance improved.