



MT Software Suite 4.2 - Public release notes

New version	MT Software Suite 4.2; MTi FW 1.3.5, MTw FW 2.0.8
Previous version	MT Software Suite 4.1.5; MTi FW 1.3.1/MTw/Awinda FW 2.01
Release date	12 November 2013
Meaning of icons	+added, ^changed, !note, #fixed, -removed

1. Notes

2. Major improvements and features

- [1876] [1886] Magnetic field mapper for MTw and MTi
 - ^MFM no longer uses MATLAB Component Runtime
 - Faster processing
 - 90% smaller installer size
 - +MFM SDK available
 - MFM can now be embedded in other programs
 - DLL and .so
 - Examples for C#, MATLAB, C++
 - + [2680] MFM for MTw now works with Awinda USB Dongle
 - + [1911] MFM now works with SyncIn enabled
- Firmware MTi
 - MTi MkIV
 - [1876] Added NMEA protocol and XDA-parser
 - [2696] Added StartSampling synchronization feature
- MT Manager
 - # [1120] MT Manager now supports multiple Awinda stations or dongles

3. Bug fixes

- MT Manager
 - # [1084] Status data graph is now correct (AccZ was not plotted)

4. Minor updates

- MT Manager
 - + [973] Power off for all MTws at once
 - + [2807] Wireless configuration window for MTw now shows RSSI values
 - ^ [2635] Warning is now produced when the exporter will overwrite a file
 - ^ [2806] [2804] [2659] [1150] [1139] Interface improvements in MT Manager
 - ^ [2792] Output configuration dialog for MTi has extra tab for NMEA
 - + [1094] Added state machine to MT Manager that allows for more flexible (individual) MT processing

- Firmware MTi
 - + [2669] Added SetAlignment (0xEC) message to set Alignment Rotation via low level communication for MTi
 - + [2632] ReqData message can now be used to poll data in the MTi
- Awinda
 - + [15] [26] [39] Extended buffer size, allowing for longer periods of outage
 - # [1401] [1566] Fixed use of retransmitted data for MTw
 - + [318] [314] Refined magnetometer sampling; improves data quality
 - ^ [274] Reduced data latency by 3 ms
 - # [49] Proper handling of clipping flags during outage
- Miscellaneous
 - # [1141] MT Software Suite has improved support for computers using logographic and syllabic (character based) writing systems

5. Known issues

- [2871] When a wireless connection has been created, disabling the radio causes MT Manager to freeze
- [1089] Changing the onboard filter profile in MT Settings has no effect: choice for onboard filter profile will copied by the choice for XDA filter profile
- [2897] ECEF position in Fixed Point 12.20 and Fixed Point 16.32 are incorrect. Data in floating point and double representations are correct.
- [2908] Orientation may be unreliable after a longer period of outage (buffer overflow)
- [2841] SampleTimeFine cannot be disabled in exporter