Morse Micro



CMSIS-Pack Software Release Notes

STM32Cube IDE Expansion Pack

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1 Overview

This document provides the software release notes for the Morse Micro CMSIS-Pack, an STM32Cube IDE Expansion Pack that integrates the MM-IoT-SDK with Morse Micro's MM6108 and MM8108 Wi-Fi HaLow (IEEE 802.11ah) chips. It is intended for developers working with the MM6108-EKH05 and MM8108-EKH05 evaluation kits.

Each release section documents new features, improvements, known issues, and deprecation notices introduced since the previous release.

2 Software Change History

2.1 Release 1.11.0

2.1.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.13.1.
    - Please refer to the Release Notes for MM-IoT-SDK 2.13.1 for more information on the changes introduced in this release.

2.1.2 Other Improvements

- A 'release mode' optimized configuration is included in the example projects, and optimization-related bugs in the EKH05 demo functionality have been fixed.

2.1.3 Known Issues

- Using IPv6 with the iPerf example fails because traffic is not received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

2.2 Release 1.10.2

2.2.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.12.3.
    - Please refer to the Release Notes for MM-IoT-SDK 2.12.3 for more information on the changes introduced in this release.

2.2.2 Other Improvements

- CMSIS-Pack includes build-defines as a plain text file as part of the pack (see build_defines.txt). This makes it easier to communicate build-defines without users having to inspect the example projects.
- CMSIS-Pack defines explicit, non-conflicting paths for all header files in all components, including hostap. This ensures projects can rely on the dynamically generated include paths from CubeMX, rather than copy-pasting settings from the example projects.

2.2.3 Known Issues

- Using IPv6 with the iPerf example fails because traffic is not received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

- The release build variant of the demo applications has instability. This option has been removed until the next CMSIS-Pack release.
  Workaround: Do not upgrade to 1.10.2, or wait until the next release.

2.2.4 Deprecation Notices

- Nil

2.3 Release 1.9.0

2.3.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.11.2. Please refer to the Release Notes for MM-IoT-SDK 2.11.2 for more information on the changes introduced in this release.
- The CMSIS-Pack also includes new components to allow building morselib and hostap from source.

2.3.2 Other Improvements

- Nil

2.3.3 Known Issues

- Using IPv6 with the iPerf example fails with traffic not being received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

2.3.4 Deprecation Notices

- The FreeRTOS+TCP networking stack has been removed.

2.4 Release 1.8.4

2.4.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.10.4. Please refer to the Release Notes for MM-IoT-SDK 2.10.4 for more information on the changes introduced in this release.
- The EKH05-Demo example now has a Command Line Interface (CLI) over UART. This provides an interactive interface for controlling the application.

2.4.2 Other Improvements

- CMSIS-Pack has been updated to make changing between Morse Micro chips (MM6108 and MM8108) and between demo example applications more straightforward.

2.4.3 Known Issues

- Using IPv6 with the iPerf example fails with traffic not being received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

2.4.4 Deprecation Notices

- The FreeRTOS+TCP networking stack is deprecated by MM-IoT-SDK. It will be removed in the next release.

2.5 Release 1.7.4

2.5.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.9.7. Please refer to the 2.9.7 release notes for more information on the changes introduced in this release.
- Support added for the new MM8108-EKH05 evaluation kit. The out-of-the-box example will flash the LEDs based on the EKH05's accelerometer.
- A new CLI example has been added. This allows the user to send commands to the device over the UART, providing an interactive method for status and control of the EKH05.

2.5.2 Other Improvements

- It is now possible to select the region via BLE when using the out-of-box demo (MM6108-EKH05 only).

2.5.3 Known Issues

- Using IPv6 with the iPerf example fails with traffic not being received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

2.6 Release 1.6.1

2.6.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.8.2, which includes the 1.15.3 drivers/firmware. Please refer to the release notes for 2.8.2 for more information on the changes introduced in this release.
- Support added for the new MM8108 chip.
- Support for the persistent config store used in MHS for storing configuration.
- A shim template to assist users in getting started with new hardware. See the CMSIS-Pack user guide, chapter 10, for more information.

2.6.2 Bug Fixes

- WNM sleep failed with a duration of 10 minutes or greater.
- In the ping example, the post ping idle time was set to 60ms instead of 60s.

2.6.3 Known Issues

- Using IPv6 with the iPerf example fails with traffic not being received.
  Workaround: Manually set the iPerf bind address to ::0 when using IPv6.

2.7 Release 1.5.0

2.7.1 New Features

- CMSIS-Pack has been updated to use MM-IoT-SDK release 2.7.4. Please refer to the release notes for 2.7.4 for more information on the changes introduced in this release.
- A new version of HaLow_example has been added that uses the SDIO interface, allowing users to easily switch between SPI and SDIO.

2.7.2 Known Issues

- iPerf sessions running over IPv6 do not connect.
- WNM sleep fails when the duration is 10 minutes or greater.
- The post ping idle time is set to 60 ms instead of 60 s. This will impact power measurements.
    - **Workaround**: edit the config file in Core/Src/configs.c and change the following line: {“ping.post_ping_delay_ms”, “60”}, to: {“ping.post_ping_delay_ms”, “60000”},

3 Revision History

Version Number	Release Date	Release Notes
1	25 Oct 2025	Initial release
2	02 Apr 2026	Update for 1.8.4 release
3	26 May 2026	Update for 1.9.0 release
4	15 Sep 2026	Update for 1.10.2
5	16 Oct 2026	Update for 1.11

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