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XBee BLU Release Notes

XBee BLU

Version 4001 - (July 26, 2024)

INTRODUCTION

These release notes document changes made to the BLE firmware on the XBee BLU modules.

- [Product Information] (Product information page coming soon)
- [Documentation](#)
- [Support](#)

SUPPORTED PRODUCTS

- XB-BLU - XBee BLU module
 - Micro (MMT)
 - Surface Mount (SMT)
 - Through Hole (TH)

KNOWN ISSUES

1. Entering SPI mode with DOUT doesn't work if DIN is also held low [*XBHAWK-933*]
2. DIN or DOUT pins cannot be configured as Output High or Low [*XBHAWKZB-1949*]

UPDATE CONSIDERATIONS

XBee Studio is recommended for updating the firmware of your radio module to the latest firmware version:
www.digi.com/xbee-studio

Initiating an OTA firmware update will erase the file system of the target device.

The file system will need to be formatted after a firmware update before it can be utilized. If a serial firmware

update was performed, the file system and bundled code on the device is retained but can only be accessed by the version of firmware that was active at the time it was formatted.

Example: If the file system was formatted for version 4000, it would not be accessible after a serial firmware update to 4001. To make use of the file system, it should be formatted for version 4001. If instead the file system is left untouched and the firmware is serially downgraded back to 4000, the file system from before the firmware update would be accessible.

The following files are included in XBee BLU firmware releases:

- Firmware
 - GBL: Firmware image for gateways and OEM serial updates
 - OTA: Firmware image for OTA firmware updates
 - OTB: Firmware + bootloader image for OTA updates
- Configuration
 - XML: XCTU-NG configuration file

UPDATE BEST PRACTICES

Digi recommends the following best practices:

1. Test the new release in a controlled environment with your application before you update production devices.
2. Unless otherwise noted, apply updates in the following order:
 1. Device firmware
 2. Modem firmware
 3. Configuration
 4. Application

Digi recommends Digi Remote Manager for automated device updates. For more information, go to <https://www.digi.com/products/iot-software-services/digi-remote-manager>.

If you prefer manually updating one device at a time, follow these steps:

Serial firmware updates:

Invoke the bootloader using one of two methods:

- Issue the %P AT Command
- [Using hardware flow control lines](#)

Interface with the bootloader at 115200 baud and transfer a bootloader or firmware image as per the [user guide](#).

An [XBee MultiProgrammer](#) is available for serial firmware updates in a production environment.

OTA firmware/file system updates:

Refer to the [user guide](#) for information on performing an OTA firmware and file system update.

GPM OTA firmware updates:

Refer to the [user guide](#) for information on performing an OTA firmware update with GPM commands. This feature is the only method to update the module over-the-air. Updates are sent using the API GATT service

provided to you by the BLE interface.

The [XBee Network Assistant](#) can be used to manage your network and optimize it's configuration prior to performing an OTA update.

TECHNICAL SUPPORT

Get the help you need via our Technical Support team and online resources. Digi offers multiple support levels and professional services to meet your needs. All Digi customers have access to product documentation, firmware, drivers, knowledge base and peer-to-peer support forums.

Visit us at <https://www.digi.com/support> to find out more.

CHANGE LOG

4001 - XBee BLU (July 26, 2024)

- This is a optional/recommended/required release
- Bootloader version: 1.11.5
- Hardware Revisions
 - XB3-24B5UM-J, XB3-24B5CM-J, XB3-24B5UT-J, XB3-24B5PT-J
 - Rev A

NEW FEATURES

1. Added I2C Support with pin P2 configured as the SDA for the I2C peripheral [*XBBLE-163*]

ENHANCEMENTS

- N/A

SECURITY FIXES

- N/A

BUG FIXES

1. Fixed memory corruption issues with MicroPython `os.bundle()` feature [*XBHAWK-1024*]
 2. Fixed an issue that prevented access to command mode when MicroPython fills up the BLE API service queue [*XBHAWK-1053*]
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4000 - XBee BLU (February 9, 2024)

- This is the initial release
- Bootloader version: 1.11.5
- Hardware Revisions
 - XB3-24B5UM-J, XB3-24B5CM-J, XB3-24B5UT-J, XB3-24B5PT-J
 - Rev A

NEW FEATURES

- N/A

ENHANCEMENTS

- N/A

SECURITY FIXES

- N/A

BUG FIXES

- N/A

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