Bluetooth Release Notes

MPLAB Harmony Integrated Software Framework

Release Information for Bluetooth

Release Notes

This topic provides the release notes for this version of MPLAB Harmony Bluetooth.

Description

MPLAB Harmony Bluetooth Version: 3.1.0 **Release Date:** December 2018

Software Requirements

Before using MPLAB Harmony Bluetooth, ensure that the following are installed:

- MPLAB X IDE 5.10 or later
- MPLAB XC32 C/C++ Compiler V2.15 or later
- MPLAB Harmony Configurator 3.1.0
- Harmony bt repository, 3.1.0
- Harmony bsp repository, 3.1.0
- Harmony csp repository, 3.1.0
- Harmony core repository, 3.1.0
- Harmony dev_packs repository, 3.1.0
- Harmony mhc repository, 3.1.0
- Harmony mplabx_plugin repository, 3.1.0

What is New and Known Issues

The following tables list the features that have been changed or added and any known issues that have been identified. Any known issues that have yet to be resolved were retained from the previous release.

Drivers:

Feature	Additions and Updates	Known Issues
Bluetooth Driver	**Additions:** • Added BM64 Bluetooth Driver	Interactive help using the Show User Manual Entry" in the Right-click menu for configuration options provided by this module is not yet available from within the MPLAB Harmony Configurator (MHC). Please see the the "Configuring the Library" section in the help documentation in the doc folder for this module instead. Help is available in both CHM and PDF formats.

Application Templates:

Template	Additions and Updates	Known Issues
Bluetooth	**Additions:** • Added BM64 Bluetooth Template	None

Applications:

Feature	Additions and Updates	Known Issues
Bluetooth Demonstrations	**Added the following demonstrations:** Bluetooth demonstrations for SAM E70: • bm64_bootloader • bm64_ble_comm	Testing via EDBG interface is not supported in this release. Recommend to use ICD4 instead.

Release Contents

This topic lists the contents of this release and identifies each module.

Description

This table lists the contents of this release, including a brief description, and the release type (Alpha, Beta, Production, or Vendor).

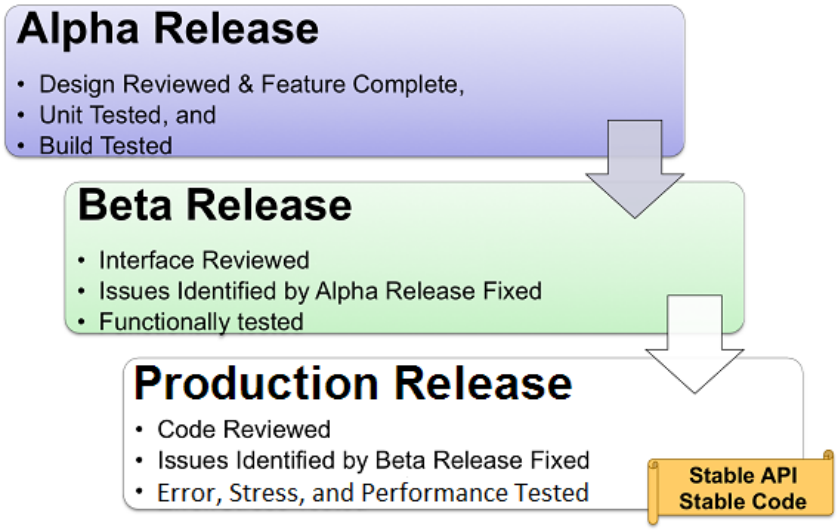
Folder	Description	Release Type
bt\apps\utilities\bm64_bootloader	bm64_bootloader application	Beta
bt\apps\data\bm64_ble_comm	bm64_ble_comm application	Beta
bt\driver\BM64	BM64 Bluetooth Driver	Beta
bt\templates\bm64	Bluetooth application template for SAM E70 Xplained Ultra	Beta

Release Types

This section describes the release types and their meaning.

Description

MPLAB Harmony module releases can be one of three different types, as shown in the following illustration.



Alpha Release

An alpha release version of a module is usually an initial release. Alpha releases will have complete implementations of their basic feature set, they are functionally unit tested and will build correctly. An alpha release is a great "preview" of what a new development Microchip is working on and it can be very helpful for exploring new features. However, it has not gone through the complete formal test process and it is almost certain that some of its interface will change before the production version is released, and therefore, is not recommended for production use.

Beta Release

A beta release version of a module has gone through the internal interface review process and has had formal testing of its functionality. Also, issues reported from the alpha release will have been fixed or documented. When a module is in a beta version, you can expect it to function correctly in normal circumstances and you can expect that its interface is very close to the final form (although changes can still be made if required). However, it has not had stress or performance testing and it may not fail gracefully if used incorrectly.

Production Release

By the time a module is released in a production form, it is feature complete, fully tested, and its interface is "frozen". All known issues from previous releases will have been fixed or documented. The existing interface will not change in future releases. It may be expanded with additional features and additional interface functions, but existing interface functions will not change. This is stable code with a stable Application Program Interface (API) that you can rely on for production purposes.

Version Numbers

This section describes the meaning of MPLAB Harmony version numbers.

Description

MPLAB Harmony Version Numbering Scheme

MPLAB Harmony uses the following version numbering scheme:

`<major>.<minor>[.<dot>][<release type>]`

Where:

`<major>` = Major revision (significant change that affects many or all modules)

`<minor>` = Minor revision (new features, regular releases)

`[.<dot>]` = Dot release (error corrections, unscheduled releases)

`[<release type>]` = Release Type (a for alpha and b for beta, if applicable). Production release versions do not include a release type letter.

Version String

The SYS_VersionStrGet function will return a string in the format:

"`<major>.<minor>[.<patch>][<type>]`"

Where:

`<major>` is the module's major version number

`<minor>` is the module's minor version number

`<patch>` is an optional "patch" or "dot" release number (which is not included in the string if it equals "00")

`<type>` is an optional release type of "a" for alpha and "b" for beta. This type is not included if the release is a production version (i.e., not an alpha or a beta)

Note: The version string will not contain any spaces.

Example:

```
"0.03a"
"1.00"
```

Version Number

The version number returned from the SYS_VersionGet function is an unsigned integer in the following decimal format (not in a BCD format).

`<major> * 10000 + <minor> * 100 + <patch>`

Where the numbers are represented in decimal and the meaning is the same as described in Version String.

Note: There is no numerical representation of the release type.

Example:

For version "0.03a", the value returned is equal to: 0 * 10000 + 3 * 100 + 0.

For version "1.00", the value returned is equal to: 1 * 100000 + 0 * 100 + 0.

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