Microchip-Logo with R.emf**isUpdate Tool**

**Release Note**

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Tool Version: v3. 16

* Release date: Oct. 15th, 2021
* SVN change Set: [1671]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Dump
  + The format of the dumped UI config image is wrong when selected the multiple image types.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 15

* Release date: Oct. 5th, 2021
* SVN change Set: [1669]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Dump
  + The format of the dumped UI config image is wrong when selected the multiple image types.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 14

* Release date: June. 8th, 2021
* SVN change Set: [1580]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Dump function
  + To UI Config, the dumped \*.HEX image can be imported by the UI config tool.

Bugs fixed

* Abort the dumping process unexpectedly via USB HID.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 03

* Release date: Sep. 28th, 2020
* SVN change Set: [1464]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Incorrect dump data issue via USB HID on BM62/63/64
* Abort the dumping process unexpectedly via USB HID.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 02

* Release date: Sep. 17th, 2020
* SVN change Set: [1463]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [BTAS-1734] The modified features do not take effect if use USB DFU to upgrade Config GUI Hex
* [BTAS-1773] isUpdate tool dump link key fail

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 01

* Release date: Sep. 4th, 2020
* SVN change Set: [1462]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Directory name where flash files are \*.c/\*.hex then isupdate tool will not flash

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v3. 00

* Release date: Aug. 28th, 2020
* SVN change Set: [1457]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [WSGBCT-41] tool crash as dump file when device is disconnected
* [WSGBCT-42] tool crash as dump file by HID USB
* [WSGBCT-43] tool crash as write flash by HID USB
* Directory name where flash files are \*.c/\*.hex then isupdate tool will not flash BM83

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 99

* Release date: Aug. 6th, 2020
* SVN change Set: [1439]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [WSGBCT-39] & [WBBS-277] First time flash FW fail with BM70

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 98

* Release date: Jul. 29th, 2020
* SVN change Set: [1434]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [BTAS-1743] The modified features do not take effect if use USB DFU to upgrade Config GUI Hex

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 97

* Release date: May 22nd, 2020
* SVN change Set: [1416]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Rehex
  + **BM83 UART DFU Use** change to **BM83 Full Image for general DFU**
  + **BM83 OTA DFU Use** change to **BM83 Secured Full Image for OTA DFU**

Bugs fixed

* [BTAS-1674] [ISupdate tool is crashing when dumping BD Link key](https://jira.microchip.com/browse/BTAS-1674).

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 96

* Release date: Apr. 17th, 2020
* SVN change Set: [1403]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [BTAS-1612] isUpdate tool dump linkkey in wrong RTU block.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 95

* Release date: Apr. 10th, 2020
* SVN change Set: [1401]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Read failure: Read the data via USB\_HID, the data is showed incorrectly.
* Dump failure: Dump out the IB(Information Block) sector but there is no file output.

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 94

* Release date: Mar. 20th, 2020
* SVN change Set: [1397]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [BTAS-1224] Cannot output customized voice prompt and system out of control

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 93

* Release date: Feb. 21st, 2020
* SVN change Set: [1385]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* [BTAS-1407] isUpdate dump and retrieve BT/BLE link key and address from paired device record

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 92

* Release date: Jan. 21st, 2019
* SVN change Set: [1375]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* [BTAS-1298] Port get disconnect while flashing demo package

Enhancements & New Features

* [BTAS-1292] isUpdate rehex image requirement

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 91

* Release date: Jan. 6th, 2019
* SVN change Set: [1369]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* [BTAS-1364] Pop-up a message for erasing link-key information while updating CONFIG.HEX

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 90

* Release date: Dec. 26th, 2019
* SVN change Set: [1367]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* JIRA
  + [WSGA-11778] BM83 Rehex file can't load by MPTool

Enhancements & New Features

* Add a field for naming the exporting HEX file when re-hexing
* Export a new HEX file with the information of source files when re-hexing

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 81

* Release date: Sep. 24th, 2019
* SVN change Set: [1324]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* JIRA: BTAS-1224 Cannot output customized voice prompt and system out of control

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 80

* Release date: Aug. 5th, 2019
* SVN change Set: [1278]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* JIRA: BTAS-1181 Dump file should be the same as Rehex file.

Enhancements & New Features

* Support importing the Config.HEX with user defined data

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 77

* Release date: June. 13th, 2019
* SVN change Set: [1276]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Get crashed when the recent flash header is invalid

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 76

* Release date: June. 13th, 2019
* SVN change Set: [1276]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* BTAS-1171

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 75

* Release date: June. 12th, 2019
* SVN change Set: [1275]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* BTAS-1091
* BTAS-1152

Enhancements & New Features

* Alert message to the wrong length and the un-hexadecimal number of OTA DFU Key

Known Bugs & Limitations

* Known bugs
* Limitations
  + The directory of isUpdate tool must not be in Chinese texts
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 70

* Release date: May. 23th, 2019
* SVN change Set: [1274]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* BTAS-1133

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Limitations
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 61

* Release date: April. 30th, 2019
* SVN change Set: [1273]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* N/A

Bugs fixed

* Update process aborted on BM6x

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
  + BTAS-661: Update process stuck
  + BTAS-665: Verify failed on Dell Lattitude E6420 laptop
  + BTAS-706: Tool gets crashed with Baudrate -921600
* Limitations
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 60

* Release date: Mar. 29th, 2019
* SVN change Set: [1273]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Rehex
  + Remove the checkbox of which project
  + Add a new rehex dialog

Bugs fixed

* BTAS (Affect version: v2.47)

Enhancements & New Features

* Rehex
  + Provide three options: BM6x/BM7x General Use, BM83 General Use, BM83 OTA DFU Use

Known Bugs & Limitations

* Known bugs
  + BTAS-661: Update process stuck
  + BTAS-665: Verify failed on Dell Lattitude E6420 laptop
  + BTAS-706: Tool gets crashed with Baudrate -921600
* Limitations
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 47

* Release date: Jan. 11th, 2019
* SVN change Set: [1270]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Hide some GUIs

Bugs fixed

* Display settings change (Affect version: v2.46)

Enhancements & New Features

* N/A

Known Bugs & Limitations

* Known bugs
  + BTAS-661: Update process stuck
  + BTAS-665: Verify failed on Dell Lattitude E6420 laptop
* Limitations
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 46

* Release date: Jan. 11th, 2019
* SVN change Set: [1270]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Support the DSP.HEX file which merged from \*.c files
* Support version display of MCU SDK, MCU APP and DSP

Bugs fixed

* Update function
  + Fix the crashed issue with DSP.HEX (Affect version: v2.45)

Enhancements & New Features

* Support importing DSP.HEX
* Check the memory type and subtype when update process starts.

Known Bugs & Limitations

* Known bugs
  + BTAS-661: Update process stuck
  + BTAS-665: Verify failed on Dell Lattitude E6420 laptop
* Limitations
  + Use restriction of Update/Rehex function
    - * DSP.HEX CANNOT be selected without MCU.HEX
      * CONFIG.HEX has VP data CANNOT be selected without MCU.HEX and DSP.HEX
      * Full.HEX CANNOT be selected with the other HEX files

Tool Version: v2. 44

* Release date: Oct. 30th, 2018
* SVN change Set: [1265]
* Hardware compatibility: IS1670/IS1671, IS2062/IS2063/IS2064, BM70/71, BM62/63/64, BM83

Changes

* Remove flash layout information in regenerated HEX file

Bugs fixed

* Update function
  + Fix the crashed issue without UI.HEX (Affect version: v2.43)
* Rehex function
  + Remove information block sector from the regenerated HEX file(Affect version: v2.43)

Enhancements & New Features

* N/A

Known Bugs & Limitations

* N/A

Tool Version: v2. 43

* Release date: Oct. 15th, 2018
* SVN change Set: [1263]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Show verify status during update procedure in log window
* Increase the delay time from 60ms to 500ms after baud rate change

Bugs fixed

* Update function
  + Fix a stuck issue during update procedure (Affect version: v2.30 to v2.42)
* Rehex function
  + Correct the size calculation for MCU code (Affect version: v2.30 to v2.42)

Enhancements & New Features

* N/A

Known Bugs & Limitations

* N/A

Tool Version: v2. 42

* Release date: Oct. 2nd, 2018
* SVN change Set: [1262]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

n/a

Bugs fixed

* Rehex function
  + UI Config overlapped the sector of MCU code

Enhancements & New Features

* Add USB DFU Permission fields for getting permission with USB DFU

Known Bugs & Limitations

* N/A

Tool Version: v2. 30

* Release date: Aug. 20th, 2018
* SVN change Set: [1253]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Clear runtime section when updating UI config (For BT5511)

Bugs fixed

* Update function
  + Correct the index assignment error of DSP code when updating DSP code and VP

Enhancements & New Features

* N/A

Known Bugs & Limitations

* N/A

Tool Version: v2. 26

* Release date: Aug. 10th, 2018
* SVN change Set: [1252]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Baud rate **921600**, **460800** and **230400** works.

Bugs fixed

* N/A

Enhancements & New Features

* On **baudrate** drop listin **Access Port** group, provide the baud rate **921600**, **460800** and **230400**

Known Bugs & Limitations

* N/A

Tool Version: v2. 25

* Release date: July. 31th, 2018
* SVN change Set: [1251]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Dump dialog to choose exporting dump files type

Bugs fixed

* Dump function,
  + Fix accessing the wrong location for DSP section
  + Fix cannot dump out the data

Enhancements & New Features

* DSP code version information check

Known Bugs & Limitations

* N/A

Tool Version: v2. 20

* Release date: July. 7th, 2018
* SVN change Set: [1247]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Real-time ports updated

Bugs fixed

* Read function, fix access wrong buffer location with USB\_HID

Enhancements & New Features

* MCU Code version check, support BT5511 ROM1 and ROM2
* Dump function, support several dump image type and save as original source files
* Update function, support load and write full \*.HEX for BT5511

Known Bugs & Limitations

* N/A

Tool Version: v2. 12

* Release date: Apr. 27th, 2018
* SVN change Set: [1247]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Real-time ports updated

Bugs fixed

* Merge function
  + Incorrect payload of DSP descriptors in flash header

Enhancements & New Features

* Dump function, only for dumping \*.HEX file and \*.C files in BT5511

Known Bugs & Limitations

* Dump function is limited for BT5511

Tool Version: v2. 11

* Release date: Mar. 28th, 2018
* SVN change Set: [1244]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Dual memory bank feature for Update function in BT5511

Bugs fixed

* Update function
  + Data overwrite
  + Payload length error of MCU description in flash header

Enhancements & New Features

* Merge function, only for merging \*.HEX file and \*.C files in BT5511
* \*.HEX file provided for Update function in BT5505 & BT5506

Known Bugs & Limitations

* Dump function is under construction for BT5511

Tool Version: v2. 00

* Release date: Oct. 18th, 2017
* SVN change Set: [1196]
* Hardware compatibility: BT5505, BT5506 and BT5511

Changes

* Support BT5511 firmware update

Bugs fixed

* N/A

Enhancements & New Features

* \*.HEX and \*.C files multi-selection for BT5511
* \*.ini file is needed for flash header of BT5511
* **image num** is editable

Known Bugs & Limitations

* Dump function and Verify function are not able for BT5511

Tool Version: v1. 20

* Release date: Aug. 11th, 2017
* SVN change Set: [1179]
* Hardware compatibility: BT5506 and BT5505

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* Support converting to .BIN file on Rehex button

Known Bugs & Limitations

* For BT5505 flash programming, **memory** must be assigned to flash and **subtype** must be assigned to Embedded flash.

Tool Version: v1. 10

* Release date: June. 14th, 2017
* SVN change Set: [1157]
* Hardware compatibility: BT5506 and BT5505

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* Support loading .HEX file in flash type

Known Bugs & Limitations

* N/A

Tool Version: v1.01

* Release date: Apr. 14th, 2017
* SVN change Set: [1146]
* Hardware compatibility: BT5506 and BT5505

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* Support the re-hex function
* Speed up the process of writing memory
* Provide an option of speeding up EEProm writting

Known Bugs & Limitations

* Fix tool crash issue

Tool Version: v1.00

* Release date: Feb. 15th, 2017
* SVN change Set: [964]
* Hardware compatibility: BT5506 and BT5505

Changes

* N/A

Bugs fixed

* N/A

Enhancements & New Features

* First release

Known Bugs & Limitations

* This tool guarantees platform compatibility with Windows 7, 8 and 10 operation systems only.
* Target device setting of UI parameter “Enable HCI UART” must be disabled; otherwise, isUpdate tool could not access the device.
* For dual mode speaker v1.0 target device, isUpdate tool is only functional with target device under ROM\_TEST mode.

# INTRODUCTION

isUpdate is a highly integrated PC-based tool used for DFU(Device Firmware Update), memory access and system configuration of a series of Microchip Bluetooth embedded systems. Version 1.0x tool can be executed on Windows operation systems like 7, 8 and 10. It supports Microchip BT5505, BT5506 and BT5511 embedded system ASICs and their derived modules through USB HID and RS232 interfaces. The major memory access operations include Flash Update/Dump, EEPROM Read/Write and EEPROM Table Dump/ Write. These features are listed as follows:

Memory Types supported:

Three types of memory are supported: flash, eeprom, and eMCU. Herein, five kinds of flash, including embedded flash, parallel flash, serial flash, DMA and PSRAM, are supported.

Note that the type eMCU means external microcontrollers and is used to access the memory of microcontrollers. Microcontrollers shall provide UART interface for communicating with Bluetooth embedded system.

Memory Access Functions supported:

Three functions are supported: Update, Rehex, Dump and Verify.

Update function is used to write data into the whole target memory for saving configurations by write memory command. Source files could be \*.HEX file, \*.HXX files, and \*.BIN file.

Rehex function is used to integrate all existing files then export to one \*.HEX file, which the data is aligned by 16 bytes and the address offset is arranged in ascending order.

Dump function is used to read data from target devices by read memory command. Result data could be stored as \*.txt files.

Verify function, which is supported in flash memory type, is used to compare the difference between readout data from device and data from an existing image file. This is used to confirm that Update procedure is done successfully.

Hardware Interfaces supported:

Two interfaces including USB HID and RS232 are supported.

Target Embedded System supported:

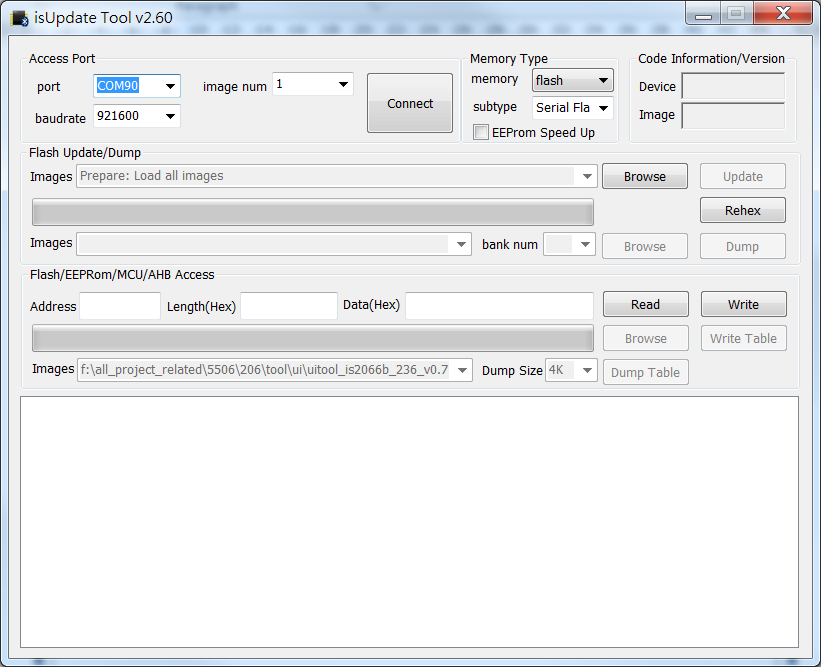
BT5505, BT5506 and BT5511 ASICs and their derived modules are supported.

Platform Compatibility:

Mandatory for Windows 7/8/10.

# TOOL LAYOUT

There are five parts on isUPdate Tool layout: Access Port, Memory Type, Code Information/Version, Flash Update/Dump and Flash/EEPRom/MCU/AHB Access.



* Access Port:

Options of COM port and USB HID interfaces are provided. Remember to assign baudrate if COM port is selected. Then click the Connect button to open related port and create the connection to the target device.

* Memory Type:

User could choose the type of memory(flash, eeprom or eMCU) he/she is going to access. Subtype will be automatically assigned by tool.

For speeding up the process of eeprom writing, the EEProm Speed Up option is only affect the eeprom writing and is provided to reduce time waste.

* Code Information/Version:

Target device firmware code information will be displayed in “Device” field once device is connected successfully. As for “Image” field, a txt file of EEProm table shall be loaded (with ”Browse” and select file from PC) first, then isUpdate will acquire and parse IC/FW version information from this EEProm file.

* Flash Update/Dump:

In the connected status, user could update or dump the flash memory (firmware) with related “Browse” button. The Browse button near the Update button is used to select hex files ready for downloading to target device. Another Browse button near the Dump button is used to select a folder in PC for saving target device’s firmware hex files. During update and dump, the progress bar would show the progress of related operation.

The Rehex button, for a particular purpose, users could import firmware images and generate a .hex file which the data of each line is aligned to 32 bytes and a .bin file.

* Flash/EEPRom/MCU/AHB Access:

It is used to read/write a specific range of EEProm or write/dump a full EEProm table. For the specific range of EEProm read/write, Address, Length and Data(for write only) shall be properly assigned.

* Log Window

Shows the current status by texts