

FwUpdateApp – BLE Dongle

The Firmware Update Application is a command line application that will update the BLE Dongle's firmware. It can update both the BLE Dongle application as well as the bootloader.

Firmware Update Application ver: 1.3

Usage: FwUpdateApp [Port] [AppType] [ImageFile]

Parameter [Port]: COM2, COM6, etc

Parameter [AppType]: DTM or ECG or DONGLEFW or DONGLEPK

Parameter [ImageFile]: *.ldr or *.bin

Note:

For DONGLEFW/DONLGEPK, if no [ImageFile], the Dongle info (version, etc) will be displayed

For DONGLEFW: [ImageFile] is the firmware image to be utilized for updating the firmware

For DONGLEPK: [ImageFile] is the pubic key file to be utilized for updating the public key

1) To determine the BLE Dongle firmware, HW Version, BLE Chip version, etc:

FwUpdateApp.exe COM41 DONGLEFW

Where COM41 is the com port of BLE Dongle.

```
C:\z7_test>fwupdateapp COM41 DONGLEFW
Firmware Update Application ver: 1.3

Dongle Information:
Application Type= BLE Application
Serial Number = -1
Firmware Version = AbbottBLEdongle_1.9.0.0
Hardware Version = 255.255.255.255
BLE Chip Version = AAC0
Date = 255/255/255255
App complete
```

2) To flash BLE Dongle bootloader firmware:

FwUpdateApp.exe COM41 DONGLEFW s140_nrf52_x.x.x_softdevice_bootloader.bin

Where COM41 is the com port of BLE Dongle. s140_nrf52_x.x.x_softdevice_bootloader.bin is the name of the bin file containing the SoftDevice and the bootloader.

```
C:\z7_test>fwupdateapp COM41 DONGLEFW s140_nrf52_6.1.0_softdevice_bootloader.bin
Firmware Update Application ver: 1.3

Dongle Information:
Application Type= Bootloader
Serial Number = -1
Firmware Version = AbbottBLEdongle_1.6.0.0
Hardware Version = 255.255.255.255
BLE Chip Version = AAC0
Date = 255/255/255255
Updating dongle firmware: s140_nrf52_6.1.0_softdevice_bootloader.bin
Started the firmware update.FwUpdate in progress.
----- Bledongle.fwDownloadProgressUpdate(000)
----- Bledongle.fwDownloadProgressUpdate(001)
----- Bledongle.fwDownloadProgressUpdate(002)
----- Bledongle.fwDownloadProgressUpdate(003)
----- Bledongle.fwDownloadProgressUpdate(004)
----- Bledongle.fwDownloadProgressUpdate(005)
----- Bledongle.fwDownloadProgressUpdate(006)
----- Bledongle.fwDownloadProgressUpdate(007)
----- Bledongle.fwDownloadProgressUpdate(008)
----- Bledongle.fwDownloadProgressUpdate(010)
```

...

```

----- B1eDongle.fwDownloadProgressUpdate(079)
----- B1eDongle.fwDownloadProgressUpdate(080)
----- B1eDongle.fwDownloadProgressUpdate(082)
----- B1eDongle.fwDownloadProgressUpdate(083)
----- B1eDongle.fwDownloadProgressUpdate(084)
----- B1eDongle.fwDownloadProgressUpdate(085)
----- B1eDongle.fwDownloadProgressUpdate(086)
----- B1eDongle.fwDownloadProgressUpdate(087)
----- B1eDongle.fwDownloadProgressUpdate(088)
----- B1eDongle.fwDownloadProgressUpdate(089)
----- B1eDongle.fwDownloadProgressUpdate(090)
----- B1eDongle.fwDownloadProgressUpdate(091)
----- B1eDongle.fwDownloadProgressUpdate(092)
----- B1eDongle.fwDownloadProgressUpdate(093)
----- B1eDongle.fwDownloadProgressUpdate(094)
----- B1eDongle.fwDownloadProgressUpdate(095)
----- B1eDongle.fwDownloadProgressUpdate(096)
----- B1eDongle.fwDownloadProgressUpdate(097)
----- B1eDongle.fwDownloadProgressUpdate(099)
----- B1eDongle.fwDownloadProgressUpdate(100)
'----- B1eDongle.updateFWAppComplete
Update complete

```

3) Update the public key within the BLE Dongle's flash. Please use this pk.txt for this release.

FwUpdateApp.exe COM41 DONGLEPK pk_dev.txt

Where COM41 is the com port of BLE Dongle and pk_dev.txt is the public key file. The public key file name can also be NGP_pub_key.txt, etc.

```

C:\z7_test>fwupdateapp COM41 donglepk pk_dev.txt

Firmware Update Application ver: 1.3

Dongle Information:
Application Type= BLE Application
Serial Number = -1
Firmware Version = AbbottBLEDongle_1.9.0.0
Hardware Version = 255.255.255.255
BLE Chip Version = AAC0
Date = 255/255/255255
Updating dongle public key: pk_dev.txt
Please wait...
Public key updated
App complete

```

4) To flash BLE Dongle application firmware:

FwUpdateApp.exe COM41 DONGLEFW nrf52840_bledongle_app.bin

Where COM41 is the com port of BLE Dongle. nrf52840_bledongle_app.bin is the name of the bin file containing the dongle application.

```

C:\z7_test>fwupdateapp COM41 DONGLEFW nrf52840_bledongle_app.bin

Firmware Update Application ver: 1.3

Dongle Information:
Application Type= Bootloader
Serial Number = -1
Firmware Version = AbbottBLEDongle_1.6.0.1
Hardware Version = 255.255.255.255
BLE Chip Version = AAC0
Date = 255/255/255255
Updating dongle firmware: nrf52840_bledongle_app.bin
Started the firmware update.FWUpdate in progress.
----- B1eDongle.fwDownloadProgressUpdate(000)
----- B1eDongle.fwDownloadProgressUpdate(001)
----- B1eDongle.fwDownloadProgressUpdate(002)
----- B1eDongle.fwDownloadProgressUpdate(004)
----- B1eDongle.fwDownloadProgressUpdate(005)
----- B1eDongle.fwDownloadProgressUpdate(006)
----- B1eDongle.fwDownloadProgressUpdate(007)
----- B1eDongle.fwDownloadProgressUpdate(008)
----- B1eDongle.fwDownloadProgressUpdate(010)

```

...

```
----- B1eDongle.fwDownloadProgressUpdate(078)
----- B1eDongle.fwDownloadProgressUpdate(079)
----- B1eDongle.fwDownloadProgressUpdate(080)
----- B1eDongle.fwDownloadProgressUpdate(081)
----- B1eDongle.fwDownloadProgressUpdate(082)
----- B1eDongle.fwDownloadProgressUpdate(084)
----- B1eDongle.fwDownloadProgressUpdate(083)
----- B1eDongle.fwDownloadProgressUpdate(086)
----- B1eDongle.fwDownloadProgressUpdate(087)
----- B1eDongle.fwDownloadProgressUpdate(088)
----- B1eDongle.fwDownloadProgressUpdate(089)
----- B1eDongle.fwDownloadProgressUpdate(090)
----- B1eDongle.fwDownloadProgressUpdate(092)
----- B1eDongle.fwDownloadProgressUpdate(093)
----- B1eDongle.fwDownloadProgressUpdate(094)
----- B1eDongle.fwDownloadProgressUpdate(095)
----- B1eDongle.fwDownloadProgressUpdate(096)
----- B1eDongle.fwDownloadProgressUpdate(097)
----- B1eDongle.fwDownloadProgressUpdate(099)
----- B1eDongle.fwDownloadProgressUpdate(100)
'----- B1eDongle.updateFwAppComplete
Update complete
```