



Updating Bitpipe™ Internal Radio

Application Note AN0032

Rev. 1.0

21/07/2017

Table of Contents

1	Document revision history.....	3
2	Scope.....	3
3	Internal Radio update	3
3.1	Checking radio version number	3
3.2	Update instructions.....	4
4	Support.....	7

1 Document revision history

Revision	Date	Comments
1.0	2017-07-21	First release

2 Scope

This application note applies to all devices using a BitPipe™ Modem using the Gemalto radios. The devices for which the application note applies is listed below:

Product	Cellular radio
BC3G	EHS5-US
BP32G-W-UFL	EHS6
BP43G1-US-UFL	ELS61-US

3 Internal Radio update

The BitPipe™ devices use an internal radio for the wireless connectivity. The following instructions explain how to update the internal radio's firmware.

Note: The software provided by Gemalto works only on Windows. The internal radio update cannot be performed from a Linux machine.

Before proceeding, please make sure to install the Windows drivers for your BitPipe™ device. Please refer to Application Note AN0033 - Installing Bitpipe™ USB Drivers for instructions on how to install the drivers for the BitPipe™ Modem on Windows.

3.1 Checking radio version number

These steps explain how to retrieve the radio version from the BitPipe™ device.

1. Open the COM port corresponding to the modem device in the device manager (refer to Application Note AN0033 for more details) with the following settings :
 - Baudrate: 115200 bps
 - Parity: none
 - Data length: 8bits
 - Stop bit: 1 bit
 - Flow control: none
2. Send the following command:
ATI1
3. The radio should return its firmware version as shown below.

```

ATI1
Cinterion
EHS5-US
REVISION 02.000
A-REVISION 00.000.15

OK
    
```

3.2 Update instructions

This section describes how to update the BC3G (EHS5-US) device on Windows; however, the same instructions apply to all other BitPipe™ listed in the table in Section 2.

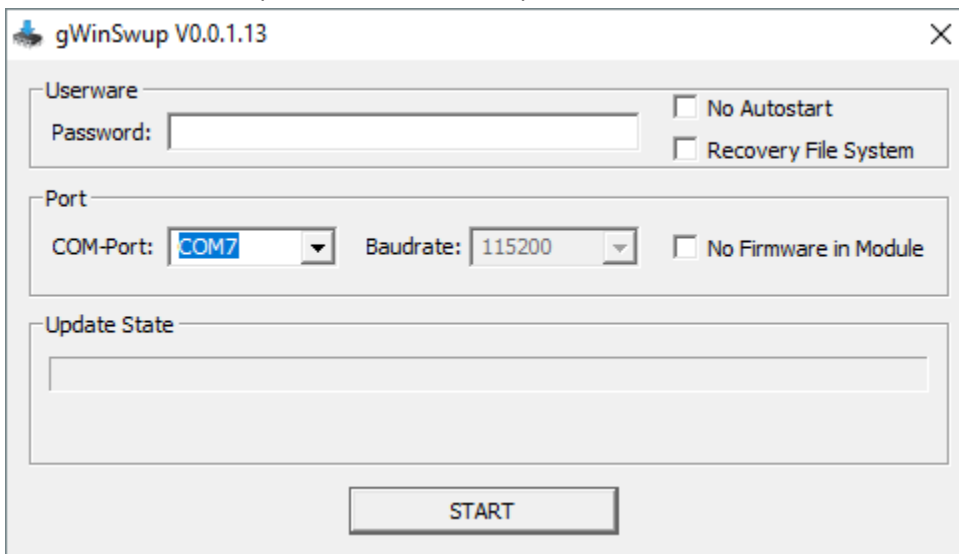
1. Download the radio update package from the Briowireless website in the Support section
2. Unzip the package in a directory on your computer;
3. The package should contain the following files:
 - An executable file: <device>_gwinSwup_rev<xx.xxx>_arn<yyyyyyy>.exe
 - A usf file: <device>_rev<xx.xxx>_arn<yyyyyyy>.usf

<device>: corresponds to the radio used in the BitPipe™ device (Refer to the table in Section 2, for the list of Bitpipe™ devices with their corresponding cellular radio)

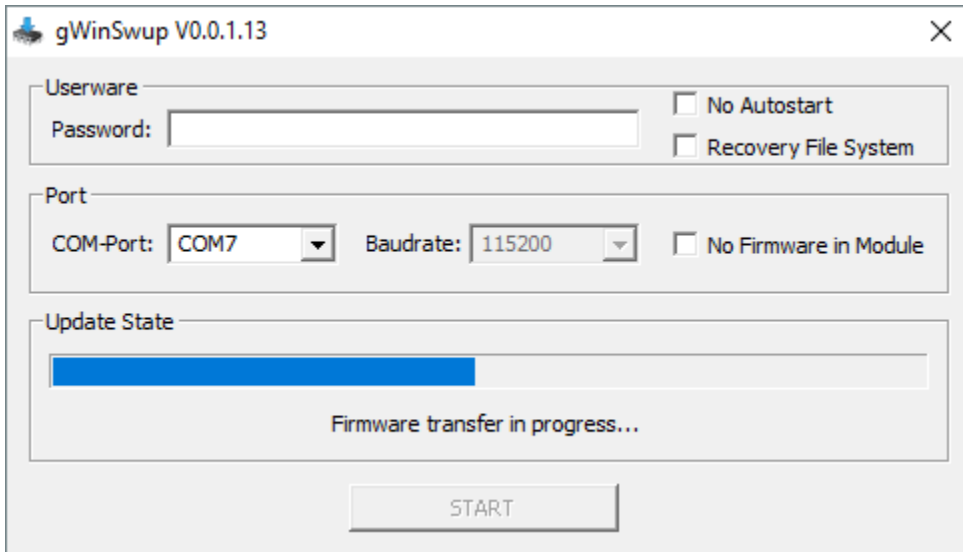
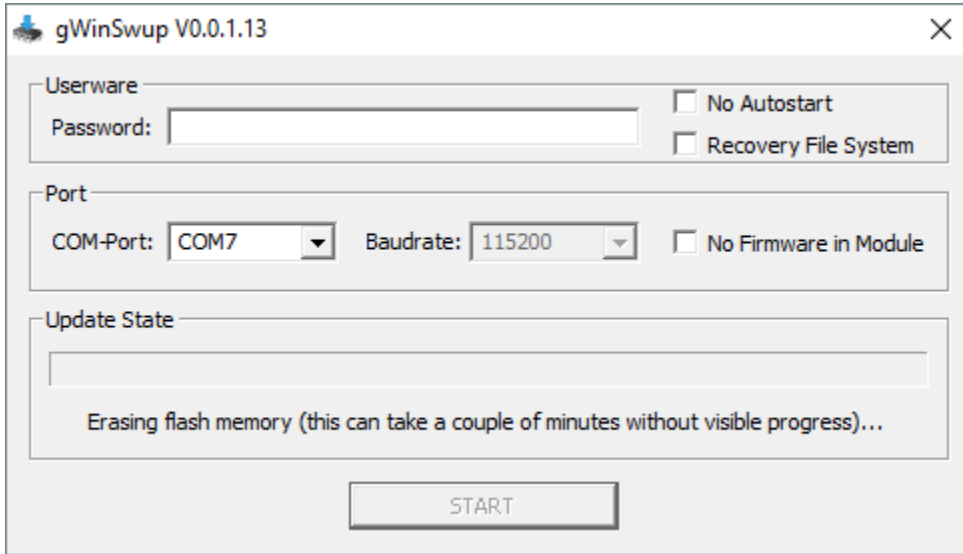
<xx.xxx>: corresponds to the firmware version

<yyyyyyy>: corresponds to the revision number of the update

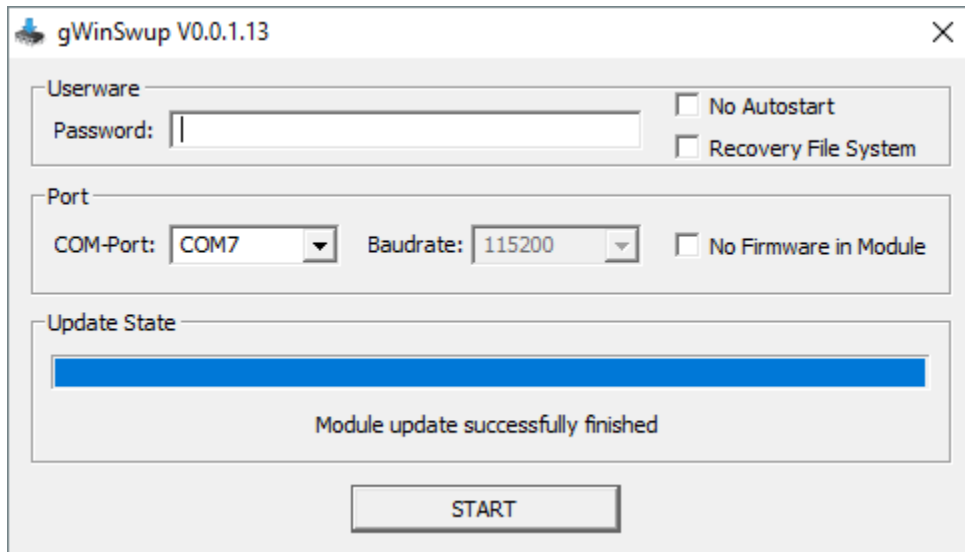
4. Run the executable file in the folder.
5. In the Window that opens, select the COM port as shown below:



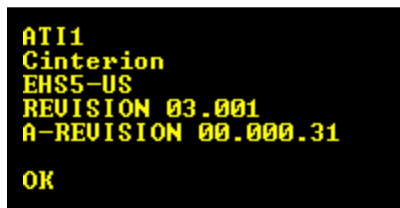
6. Leave all boxes unchecked and the password field blank.
7. Press START
8. Wait for the update to complete. The update process can take several minutes without any visible progress. Do not close the windows during the update as this may brick the device.



- Once the update is complete, the following message should be visible in the box below the progress bar:



- Close the window.
- To make sure the firmware update was completed successfully, you can verify the radio version number (Refer to Section 3.1) as shown below.



4 Support

support@briowireless.com

For online support and downloads please go to:

<https://www.briowireless.com/>