

### Hughes BGAN-X 9202 Upgrader User Guide (PC)

Rev 1.2 (14-Feb-13)

This document explains how to use the Hughes BGAN-X Upgrader program for the 9202 User Terminal using a PC.

# 1 Getting and Extracting the Upgrader

The BGAN-X Upgrader is a zip file (<u>PC Upgrader 5.8.1.1.zip</u>) that contains the BGAN-X binary software required for software upgrade of the BGAN-X 9202 User Terminal (UT). Only the software appropriate at time of release is provided with the upgrader (i.e., it may not include all the upgrade options detailed below).

Once you have the self-extracting exe file, you need to run it in order to unzip/extract the upgrader and all supporting files (example below is from 5.8.0.8)

WinZip Self-Extractor - 9202_Upgrader_5_8_0	_8_РС.ехе 🗙
To unzip all files in this self-extractor file to the specified folder press the Unzip button.	Unzip
Unzip to folder:	Run WinZip
c:\bgan-x\5.8.0.8 Browse	Close
Overwrite files without prompting	About
	Help

The destination directory contains the upgrader executable, as well as support files (including this instruction file). If you used the default destination, the directory should look something like this:

🗁 5.8.0.8					- D ×	
File Edit View Favorites T	File Edit View Favorites Tools Help 🧗					A
🕒 Back 👻 🕥 👻 🏂	🕞 Back 👻 🕥 🖌 🏂 Search 🔊 Folders 🔛 🔹					
Address 🛅 C:\bgan-x\5.8.0.8						
	-	Name 🔺	Size	Туре	Date Modified	
File and Folder Tasks 🛛 🛠		🖬 bganx_5_8_0_8.bin	3,820 KB	BIN File	03-May-12 11:29 AM	
🤭 Make a new folder		BganX_Upgrader.exe	280 KB	Application	21-Nov-11 6:31 PM	
		🔊 mscometl.oex	1,038 KB	ActiveX Control	25-Jul-02 4:18 PM	
Publish this folder to the Web	_	🔊 msinet.ocx	114 KB	ActiveX Control	22-May-00 12:00 AM	
Share this folder		🔊 msvbvm60.dll	1,376 KB	Application Extension	25-Jul-02 4:18 PM	
	🔊 mswinsck.ocx	106 KB	ActiveX Control	25-Jul-02 4:18 PM		
		📼 WININET.Bas	25 KB	BAS File	22-Oct-08 12:21 PM	
Other Places ¥	-					

# 2 Running the Upgrader

#### Before Running the Upgrader:

- Connect to the 9202 UT via Ethernet directly to the PC. Note: Do not connect the PC to the UT through a router.
- The SIM may or may not be inserted during the upgrade (optional).
- Your PC's network (Ethernet) interface to the UT should be set to "Obtain an IP Address Automatically" (i.e., DHCP should be used by the UT to assign your PC an IP address); if your UT is configured with its on-board DHCP server <u>disabled</u>, you will need to setup an appropriate static address for your PC instead.
- NOTE: Be aware that depending on your PC's operating system (Windows 7 and Vista), require you to run the Upgrader with Administrator rights. Right click on the Upgrader executable to "Run As" and select Administrator.
- NOTE: You may also need to turn OFF your PC's firewall settings in order to allow the Upgrader to operate correctly. Also be aware that various third-party programs may interfere with the Upgrader's functions because they act as a firewall.

🔰 BganX Satellite IP Modem Upgrader 🛛 🛛 🔀				
<u>File T</u> ools <u>H</u> elp				
IP Address:	192.168.128.100			
Software				
New Software version:	Modem SW version:	<u>R</u> estore		
5.8.0.6	5.8.0.5	✓ Upgrade SW		
	1			
PIC Info				
New PIC version:	Modem PIC version:			
UNAVAILABLE	1.1.1.2	🔲 Upgrade PIC		
-IB Info				
New IB version:	Modem IB version:			
UNKNOWN	UNKNOWN	Upgrade IB FW		
	,			
_Antenna Info				
New ATB version:	Modem ATB version:			
UNAVAILABLE	UNKNOWN	🔲 Upgrade Antenna		
New HPA version:	Modem HPA version:			
UNAVAILABLE	UNKNOWN			
Antenna Class:	Antenna Class:			
UNAVAILABLE	UNKNOWN			
Select the items above to Upgrade.		<u>U</u> pgrade		
Operation Successful. Release Info retrieved!				

Figure 1: Sample Upgrader Screen while in Normal Mode

• The Upgrader gives you the option to upgrade the BGAN-X Application Software, and when applicable, the PIC (Peripheral Interface Controller) Software. If any of these sections on the Upgrader screen are dim, that means an upgrade to that component is not available/possible at this time (*Note: the IB Info/Software and Antenna Software don't apply to the 9202, so these options will always be grayed out*).

#### **Upgrader Window Fields:**

- IP Address field shows the local IP address of the UT. This is the address the upgrader uses when communicating with the UT. A green circle indicates good Ethernet connectivity, and a red circle indicates no connectivity. If you are using a custom UT IP address, this value can be changed in the Tools menu explained below.
- Restore button will restore the UT to the prior installed software release, if available.
- Upgrade button is used to perform the upgrade in conjunction with the Upgrade selections (Software and/or PIC; note that the IB and Antenna Info sections are not applicable to the 9202 UT, and will always be grayed out).
- The status bar at the bottom of Upgrader window provides progress information during the upgrade process.

# **3 Performing Upgrade(s):**

#### NOTE: Do not disrupt any upgrade while it is in progress and ensure the power supply is stable.

- To perform an upgrade, select from the available upgrade selections and click the Upgrade button.
  - Upgrades may be selected and performed individually or altogether. The Upgrader will upgrade each selected component in sequence.
  - Unavailable selections are grayed out, dependent on the released software upgrade(s) provided with the Upgrader package.
- Once you click Upgrade, a Pop-up window appears, asking to confirm your choices (the selected items to upgrade are listed):



- Click Yes (No cancels the selection)
- Note that if this is the first time you have run the Upgrader (or if you have changed the PC's firewall settings), the following may appear:



Select Unblock to continue.

- The section being upgraded will be then highlighted in green and the upgrade process will begin.
  - $\circ$  The Status bar will show a series of progress messages as the upgrade proceeds.
  - Please wait for the upgrade(s) to complete. Note that any one Upgrade operation (Software, PIC, etc) can take up to 10 minutes to complete. *Do not interrupt any upgrade since this may leave the UT in an unknown state.*
  - Refer to the following figures for sample screens of an upgrade in progress.

<b>) BganX Satellite</b> jle <u>T</u> ools <u>H</u> elp	IP Modem Upgr	ader 🛛 🛛
IP Address:	192.168.128.100	0
Software		
New Software version:	Modem SW version:	<u>R</u> estore
5.8.0.6	5.8.0.5	🗖 Upgrade SW
PIC Info		
New PIC version:	Modem PIC version:	🔲 Upgrade PIC
-IB Info		
New IB version:	Modem IB version:	
UNKNOWN	UNKNOWN	🔲 Upgrade IB FW
-Antenna Info		
New ATB version:	Modem ATB version:	
UNAVAILABLE	UNKNOWN	🔲 Upgrade Antenna
New HPA version:	Modem HPA version:	
UNAVAILABLE	UNKNOWN	
Antenna Class:	Antenna Class:	
UNAVAILABLE	UNKNOWN	
Select the items abo	ove to Upgrade.	<u>U</u> pgrade
Preparing Terminal softw	are for Upgrade	

Figure 2: Sample Screen for Normal Mode Upgrade in Progress

• When the upgrade completes, the green highlight disappears. A few moments later, the *New Software version* field should show the updated version. The Status bar should show Operation Successful. Release Info retrieved.

	IP Modem Upgra	ader 🛛
<u>F</u> ile <u>T</u> ools <u>H</u> elp		_
IP Address:	192.168.128.100	
Software		
New Software version:	Modem SW version:	<u>R</u> estore
5.8.0.6	5.8.0.6	🔲 Upgrade SW
PIC Info		
New PIC version:	Modem PIC version: 1.1.1.2	
UNAVAILABLE	1.1.1.2	📕 Upgrade PIC
- IB Info		
New IB version:	Modem IB version:	
UNKNOWN	UNKNOWN	🔲 Upgrade IB FW
Antenna Info —		
New ATB version:	Modem ATB version:	
UNAVAILABLE	UNKNOWN	🔲 Upgrade Antenna
New HPA version:	Modem HPA version:	
UNAVAILABLE	UNKNOWN	
Antenna Class:	Antenna Class:	
UNAVAILABLE	UNKNOWN	
Salact the items abo	ave to Upgrade	Upgrade
Select the items above to Upgrade.		
Operation Successful, Re	elease Info retrieved!	

Figure 3: Sample screen for Successful Upgrade Example

- At this point, the upgrade has completed.
  - If multiple upgrade selections have been made, the Upgrader will continue with the next upgrade in the sequence.
- Check the Upgrader window and verify that the updated version matches the new version supplied with the Upgrader.

### Upgrader Menu Descriptions:

- File drop-down menu:
  - Upgrade Selections same as Upgrade button
  - Restore Software same as Restore button
  - Upgrade Antenna (Standalone) (not applicable to the 9202)
  - Upgrade IB (Standalone) (not applicable to the 9202)
  - Upgrade PIC (Standalone) same as Upgrade PIC checkbox
  - Exit exits the Upgrader
- Tools drop-down menu:
  - Configure Modem Interface allows you to enter the IP address of the UT. Default is 192.168.128.100
  - Get Software Version refreshes the Upgrader window and displays software versions currently installed and available for upgrade from the Upgrader
  - Reset Modem reboots the UT
- Help drop-down menu:
  - About Upgrader displays Upgrader version

# **4** Troubleshooting:

If the following dialog box appears, follow the instructions and re-attempt the upgrade.



#### **Contact Hughes:**

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