MicroRAE BLE Firmware Upgrade

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1. Introduction

This procedure is for MicroRAE instruments originally received with Firmware version lower than v1.14 (shipped before October 2019). It upgrades the instrument's Bluetooth protocol to BLE (Bluetooth Low Energy) for compatibility with Safety Communicator. Connect The MicroRAE To A PC

Note: The MicroRAE must be connected to a PC through the supplied Travel Charger and must be in the PC communications mode.

1. Attach the Travel Charger to the MicroRAE.
2. Use the supplied PC Communications Cable (USB to mini-USB cable) to connect the Travel Charger to a PC.
3. Turn on the MicroRAE. Make sure it is running (with the main measurement screen showing).
4. Activate the PC communications mode on the MicroRAE by pressing [MODE] repeatedly, starting from the main measurement screen until you reach the "Comm Mode" screen.
5. Press [Y/+]. Measurement and datalogging stop, and the instrument is now ready to communicate with the PC. The display now says "Ready To PC".

2. Download And Start BLE Programmer

1. Download a file called BLE Programmer V1.0.6.zip (available at www.raesystems.com) to a computer that is connected to your MicroRAE with a cable.
2. Unzip (uncompress) the file, which creates a folder.
3. Open the folder.
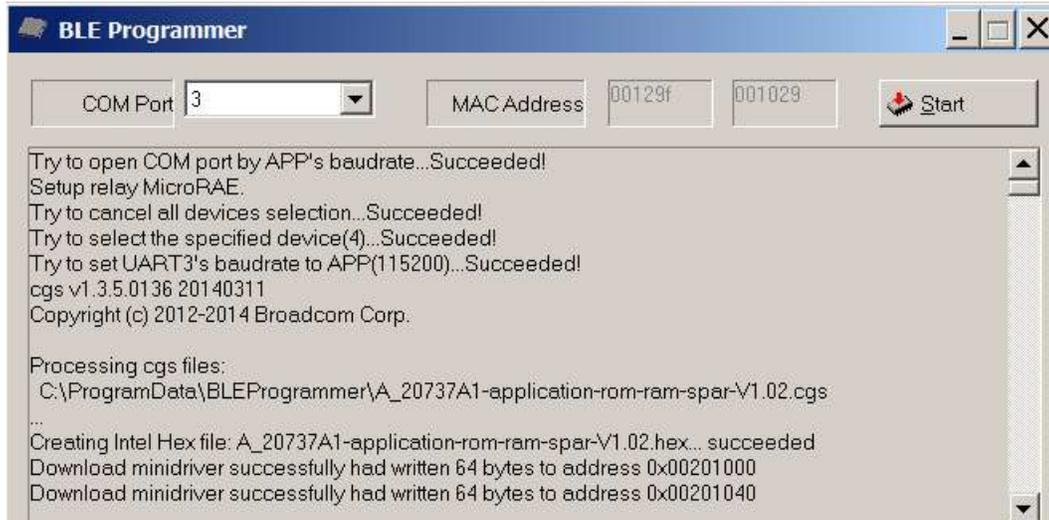4. Click on the file named "BLEProgrammer.exe".

Name ▲	Date modified	Type	Size
BLEProgrammer.exe	12/29/2016 8:21 AM	Application	6,178 KB
RCSParser.dll	12/29/2016 8:21 AM	Application extension	98 KB
relay.bin	12/24/2015 10:24 ...	BIN File	4 KB

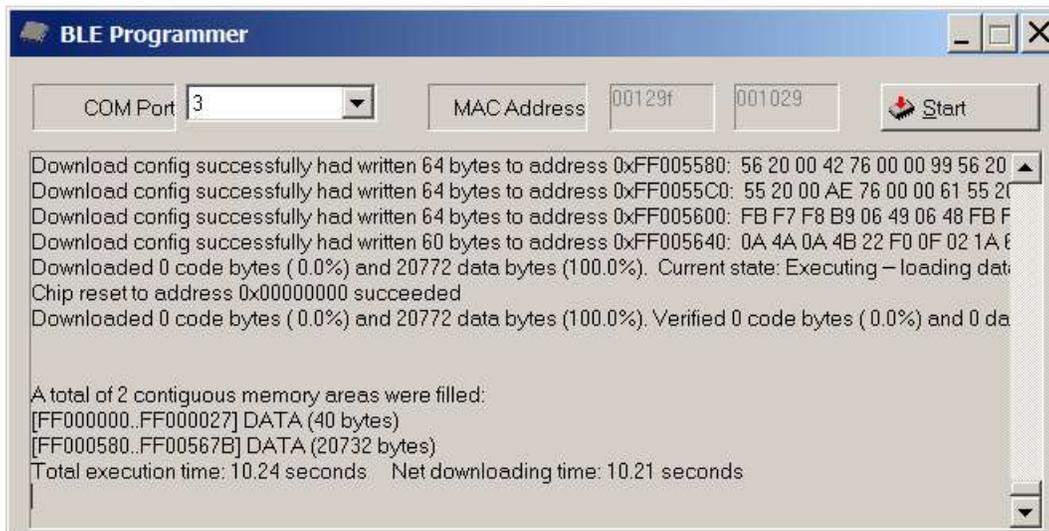5. Click "Start" to start the programming.

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Processing begins, and this screen is shown:

Note: Make sure the COM Port number is correct. If it is not, the procedure fails.

When the procedure is finished, the screen looks like this:

6. Click the "X" in the upper right corner to close the window.
7. When you are done, press [MODE] on the MicroRAE to exit the PC communications mode.

Shut off the MicroRAE, and then restart it.

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