

Firmware Over The Air Update Tutorial

This tutorial will assist you in performing an upgrade to the RF firmware for the embedded cellular phone module in your ProTalk Cv3. This firmware runs independently on the cellular module and can improve stability and performance of your device. You may also want to verify the ProTalk Cv3 firmware is up to date, and upgrade if required using the following:

http://barnettprotalk.com/Products/B1277/tutorials/ProTalk_Cv3_Firmware_Update_Tutorial.pdf

In order to achieve the over the air update, you must have a data plan added on to your cellular account and have the Access Point Name (APN) configured for the carrier your SIM card is activated on.

Configuring the APN using the Cv3 Database Editor

The following example illustrates configuring the APN to work with Telus Mobility. Please verify your SIM and contact your carrier if you are unsure of what APN to use.

BE ProTalk Cv3 Database Editor - C:\Sample Databases\APN.DAT

File In/Out Operation Program Help

Inputs

Outputs

Callout

Reports

General

Program

General Operation E-mail Settings Radio Interface Power Options Security Operation

Module has email capabilities

Cellular Carrier

Presets: Telus Mobility

APN Server: sp.telus. Preset cellular carrier selection

Use an alternate Email Server

Presets: Telus Mobility

Hostname: smtp.telus.net

Port: 25

This server requires a user account for verification

Username:

Password:

Sender's Account

Email address: Some.Location@BarnettProTalk.com

Specify a valid "Sender's Account" address to be used when sending e-mails

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Save the changes to the APN and write the database to the ProTalk Cv3. You will also need to reboot the ProTalk Cv3 for your changes to take effect.

Verifying the ProTalk Cv3 RF Version

From your mobile phone, send a text message to the ProTalk Cv3 with the word 'About'. It will respond with the following information:

Site Identifier

Model: B1277

HW ver: 03.xx

FW ver: 04.xx

RF VER: 20.00.XXX

(update available)

RSSI: XX

Channel: XXX

Status: Idle

Note: if you have configured your APN and it does not show (update available), your device is most likely already up to date.

Performing an Upgrade to the RF Firmware Version

Make sure the ProTalk Cv3 is idle to perform the upgrade (no active alarms). Send a text message containing the phrase '_#fota_upd'. The ProTalk Cv3 will respond with:

Model: B1277

HW ver: 03.xx

FW ver: 04.xx

RF VER: 20.00.XXX

Update in progress

This may take a few minutes

The upgrade will take the ProTalk Cv3 offline for a few minutes. Send another text with the word 'About', and you will receive a response once the upgrade has finished and the ProTalk Cv3 is online again. If the response contains the phrase (update available), please repeat the previous steps (send a '_#fota_upd', followed by 'About'). You may have to repeat these steps a few times in order to get to the latest update version. Each time this update is performed, you should observe a different RF VER, indicating that the upgrades are working.

