



Futurecom Systems Group, ULC

## PDR8000 Firmware Upgrade Instructions

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Date: 2018-08-01

## Document Revisions

Rev	Date	Notes & References
R1.0	31 Jul 2018	Instructions for Release 2.0 to 3.0 upgrade.

## Introduction

The PDR8000 Software Release 3.00 supports all PDR8000 up to Revision 3.0. This document describes how to upgrade the PDR8000 software from Release 2.0X to Release 3.00.

**NOTE: All programs mentioned in this document must be executed from a local storage on the PC attached to the PDR8000 via USB cable. DO NOT run programs from network storage or drives.**

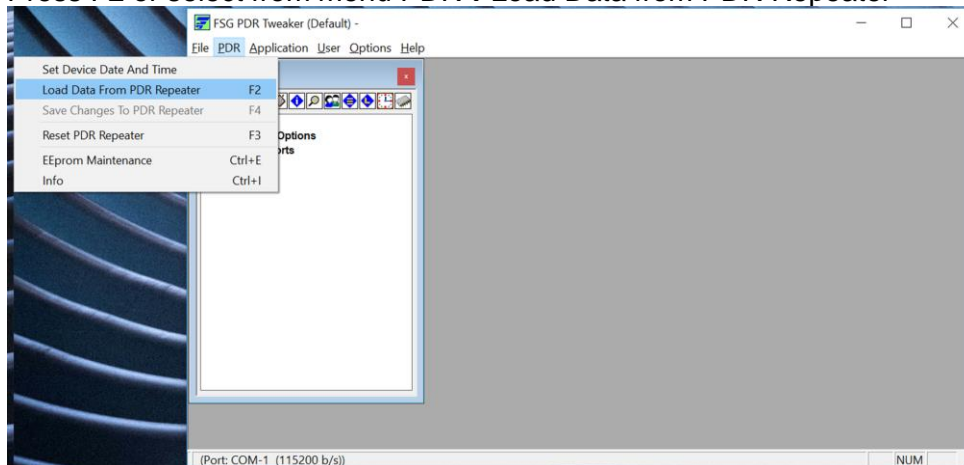
## Preparation

The PDR software suite contains two main components.

- Firmware (Embedded Software running on PDR8000)
- Tweaker (Programming application to configure the PDR8000)

Before upgrading the PDR8000 firmware, existing data files must be saved using the following steps.

1. Power up the PDR8000
2. Connect the PC to PDR8000 Rev 2.0 using the USB interface cable
3. Open Tweaker Rev 2.0x\*
4. Press F2 or select from menu PDR→Load Data from PDR Repeater



**Figure 1 - Load Data from PDR Repeater**

5. Make sure there are no errors in the configuration
6. Save DPD file by selecting from the menu File→DPD Files (Templates)->Save DPD file.  
Remember the folder location and name when saving the DPD file.

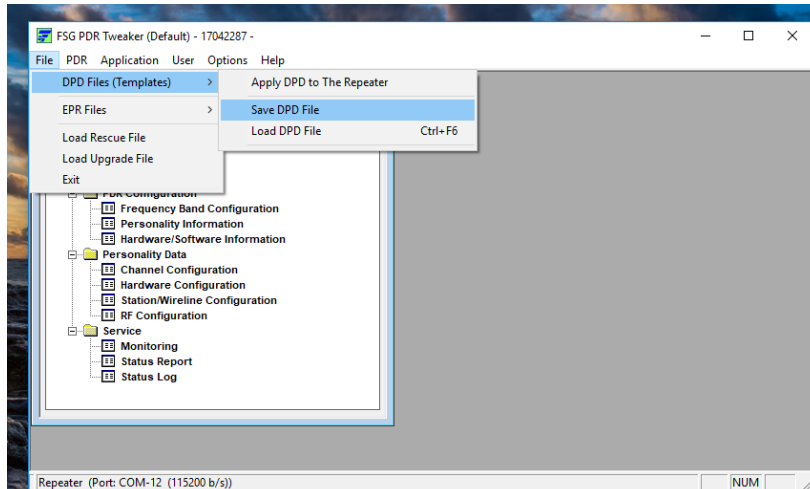


Figure 2 - Tweaker Save DPD File

7. Save EPR file by selecting from menu File→EPR Files→Save EPR File \*\*. Remember the location and name of the EPR file when saving.

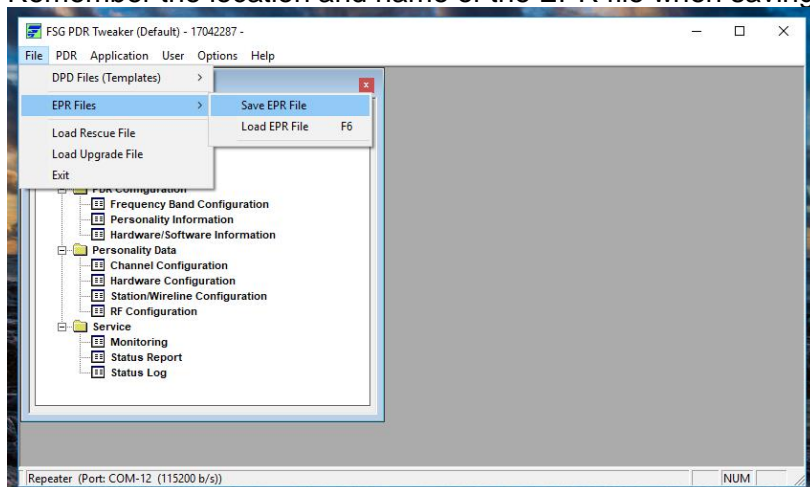


Figure 3 - Tweaker Save EPR File

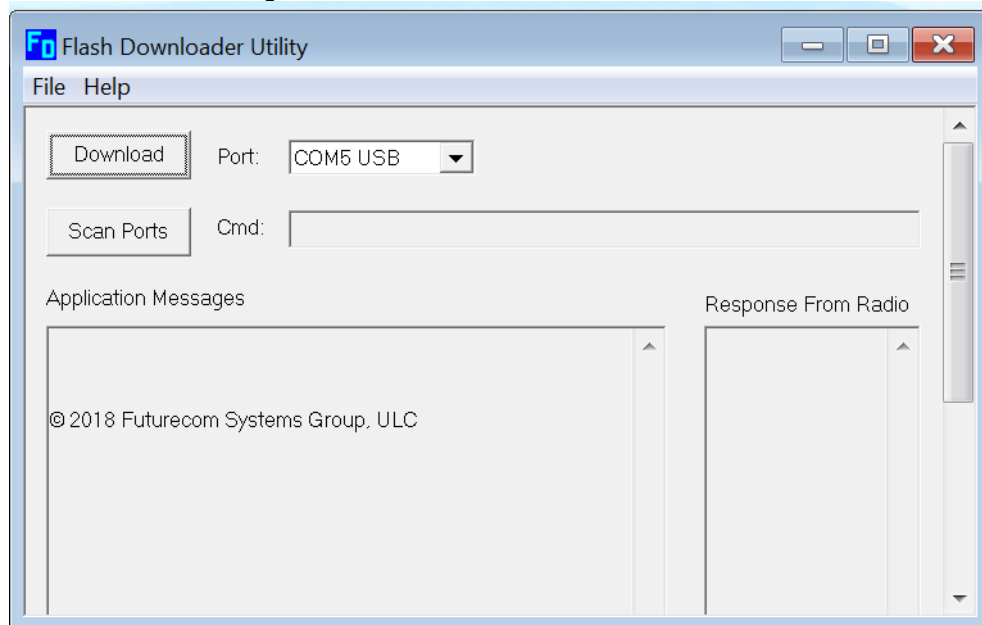
**NOTES:**

- \* Tweaker R2.0x is needed to read Release 2.0 PDR8000 firmware.
- \*\* It is very important that EPR file be saved before upgrading firmware.

## Upgrade Firmware to Release 3.00

Once the preparation is complete, the PDR8000 firmware can be upgraded with the following steps.

1. Close Tweaker application if it is running on the PC
2. Create a 'Firmware Upgrade' folder on the PC
3. Download the PDR8000 Firmware R3.00 file from the Futurecom website.  
<http://futurecom.com/support/documentation-software/pdr8000/>
4. Unzip the downloaded file and save the files in the folder created in step 1.
5. If PDR8000 is not powered up and connected to PC, power up and connect PDR8000 to an available USB port
6. If the Flash Downloader Utility tool is already installed, skip to step 8, otherwise please download it from the Futurecom website link.  
<http://futurecom.com/support/documentation-software/pdr8000/>
7. Unzip the Flash Downloader Utility and run the setup application. Follow the prompts to install the Flash Downloader utility on the computer.
8. Run the Flash Downloader from the shortcut icon created on the desktop or from the Start→All Programs→Futurecom Flash Downloader→FlashDownloader



**Figure 4 - Flash Downloader Utility Initial Screen**

9. Ensure no other program is trying to use the same USB port. Ensure that Tweaker application is closed as instructed in step 1.
10. From Flash Downloader Utility window menu select File→Open and specify the location of the [PDRFirmware.cfg](#) file in the 'Firmware Upgrade' folder

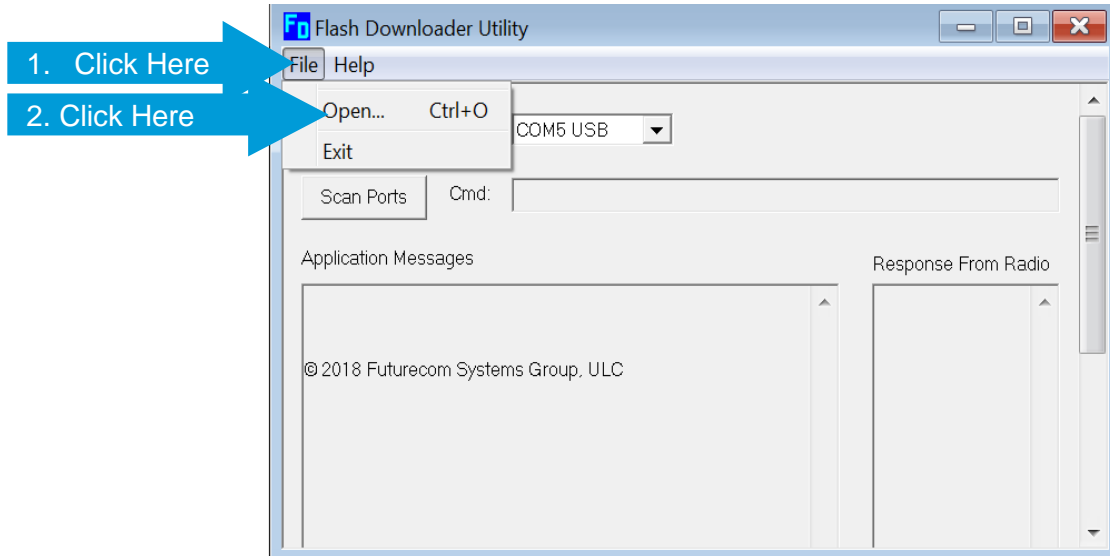
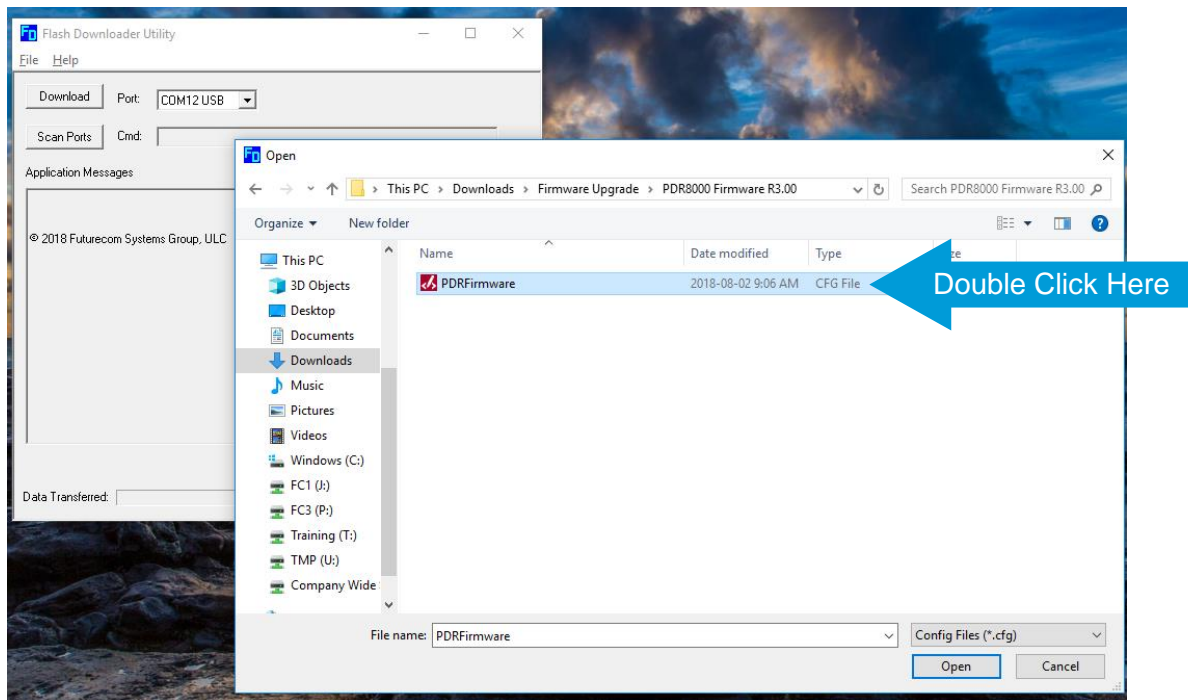
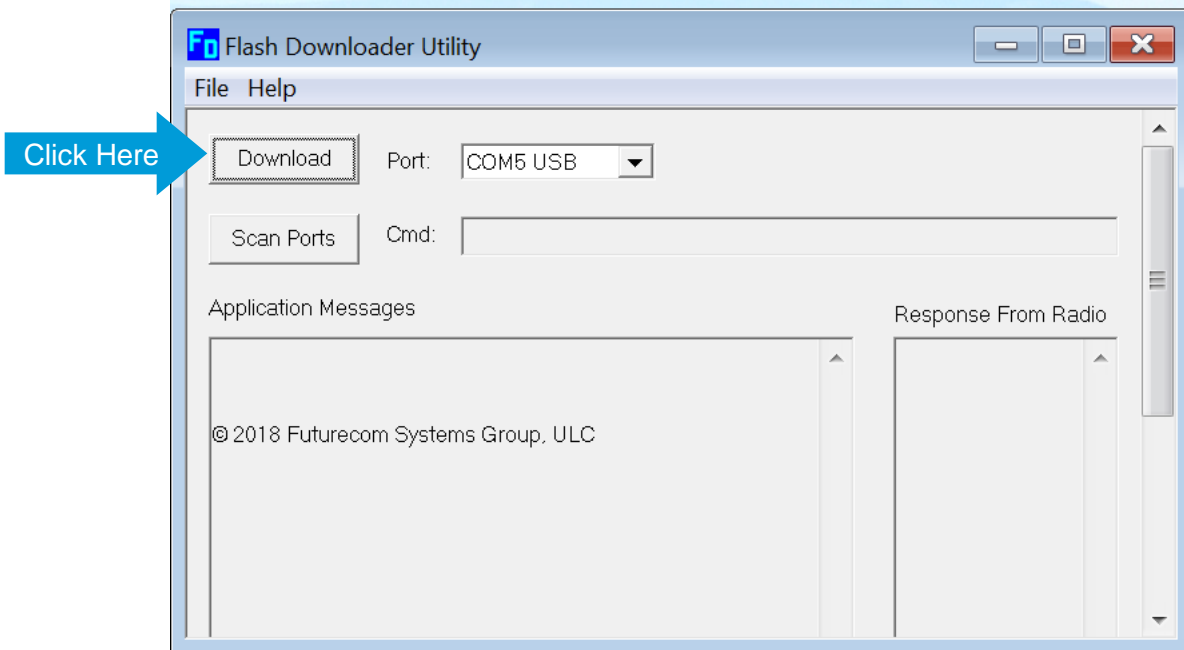


Figure 5 - Flash Downloader Open Firmware File

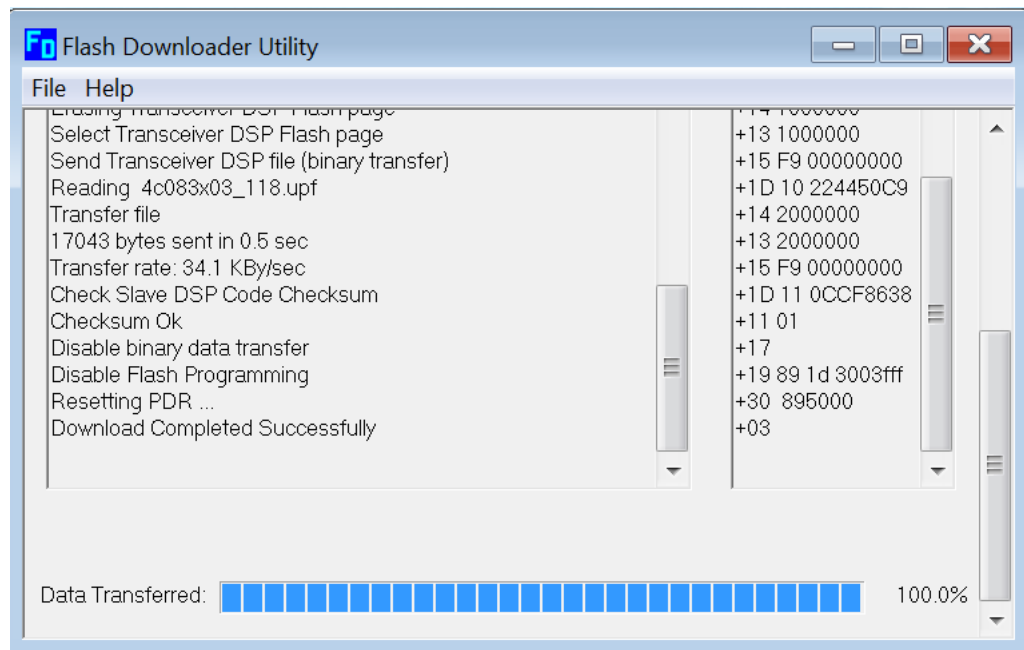


11. Click on the 'Download' button to start the downloading process.



**Figure 6 - Download Firmware to PDR8000**

12. Observe the Application messages and progress. Wait until the download is completed 100% successfully.



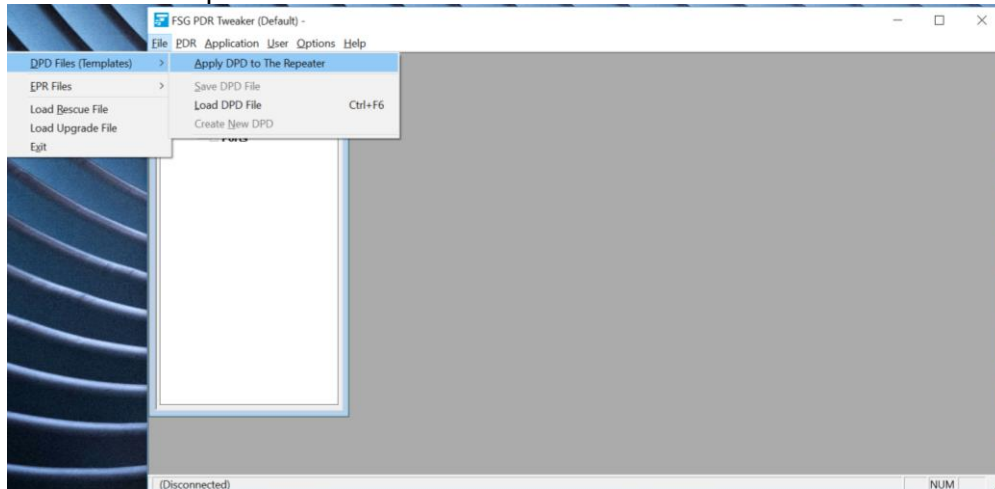
**Figure 7 - Firmware Update Progress**

13. After the Download Completed Successfully message appears, close the Flash Downloader application.

## Apply the DPD File

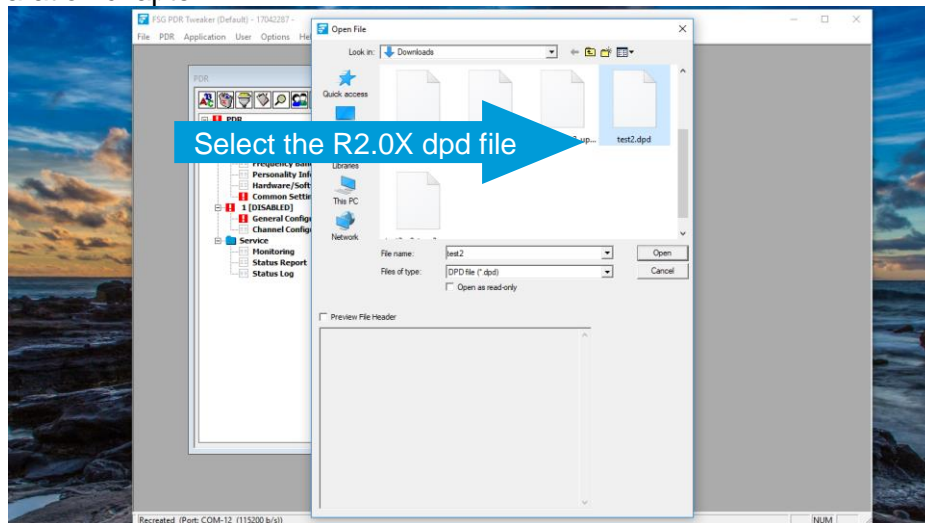
This is the last set of steps after firmware has been upgraded to Release 3.00.

1. Download and Tweaker release 3.00 from Futurecom website link.  
<http://futurecom.com/support/documentation-software/pdr8000/>
2. Install and run Tweaker downloaded in step 1
3. From the Tweaker window menu select File→DPD Files (Templates)→Apply DPD to The Repeater



**Figure 8 - Tweaker Apply DPD to The Repeater**

4. Click 'OK' on any Errors/Warning messages that appear
5. On the 'Open File' dialogue, select the R2.0X DPD file saved in step 6 of the Preparation chapter



**Figure 9 - Select R2.0X DPD file**



- Click Yes/Continue on any of the confirmation windows that appear
- When the 'Write...' dialogue appears, do not perform any actions on Tweaker and let the process finish. **NOTE: This step may take several minutes**

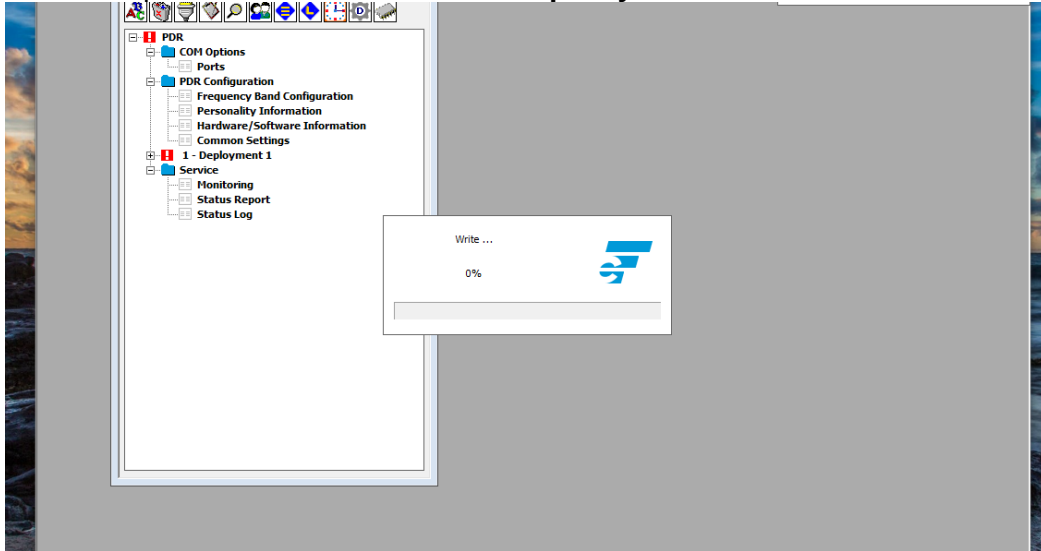


Figure 10 - PDR Data Writing screen

- When the process finishes, if there are any error indications on the main Tweaker menu, select the EEPROM MAINTENANCE icon in the toolbar → Fix Errors

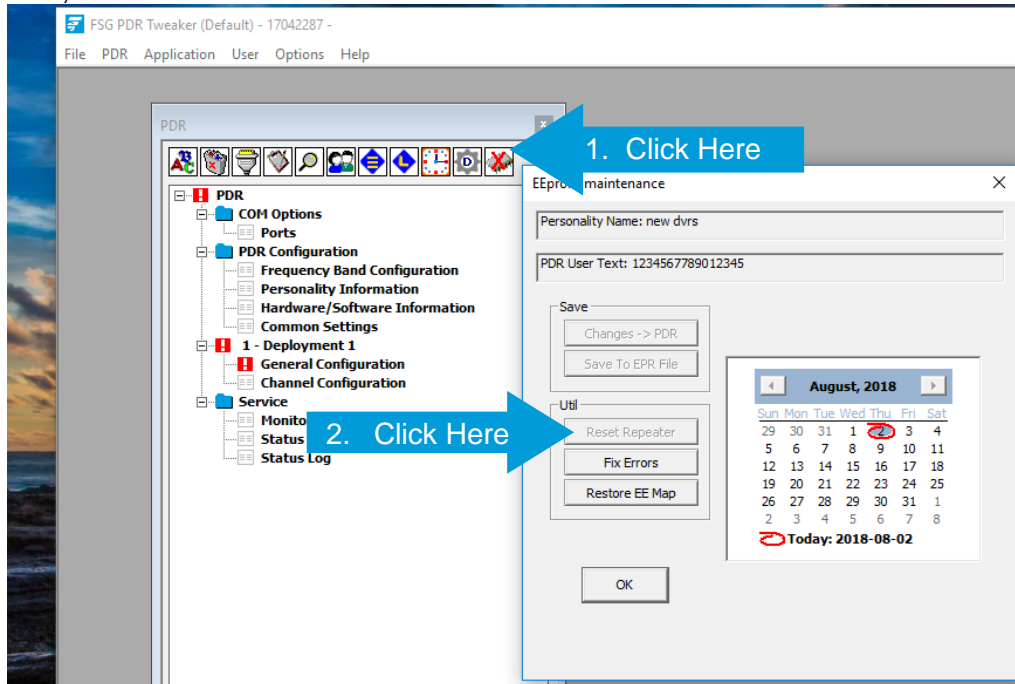


Figure 11 – Tweaker Fix Errors

- Press F4 or select from menu PDR→Save Changes to PDR Repeater to complete the upgrade

10. Save DPD file by selecting from the menu File→DPD Files (Templates)->Save DPD file.  
Give this file a different name to differentiate it from the file saved before the update. Remember the folder location and name when saving the DPD file.

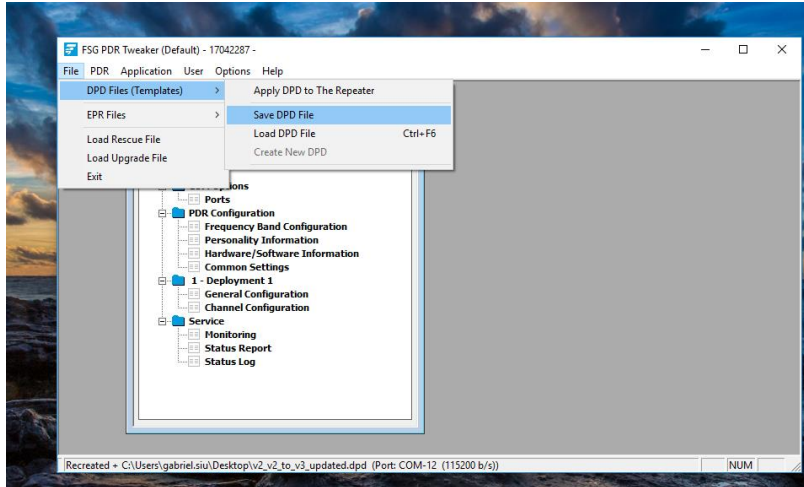


Figure 12 - Tweaker Save DPD File

11. Save EPR file by selecting from menu File→EPR Files→Save EPR File \*\*.  
Give this file a different name to differentiate it from the file saved before the update. Remember the location and name of the EPR file when saving.

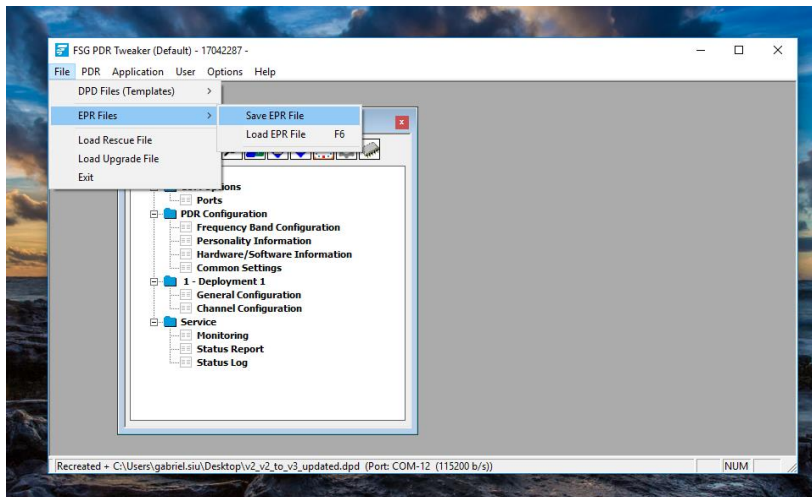


Figure 13 - Tweaker Save EPR File

**NOTE: \*\* It is very important that EPR file be saved after upgrading firmware.**