

DX FT8 Project Firmware Version 1.8 Release Notes: 17 January 2025

This version of the firmware was written to make six changes:

- 1) Automatic update of the Date Display and ADIF File Name occurs when the RTC Date changes.
- 2) When switching from QSO Mode to Beacon Mode or Beacon Mode to QSO the FT Transmit Frequency does not change.
- 3) The contents of the StationData.txt file is checked to make sure the entered data is valid. When the Station Data is valid the user's Call Sign and Maidenhead Locator are displayed on the boot up screen. If the data is not valid an error message is displayed instead of the User's Station Data.
- 4) The QSO and Beacon FT8 Traffic Handling routines have been extensively revised and tested **On The Air** to provide for repeat messages being transmitted when propagation conditions cause normal FT8 exchanges to be disrupted. Please see the Flow Chart Below for a detailed description of how both the QSO Mode and Beacon Mode now operate.
- 5) With the release of the Seven Band Board a major revision of the Band Switching routines has been made so that **Both Existing Five Band Boards and New Seven Bands are serviced by a single application**. The Version 1.8 firmware interrogates the attached DX FT8 board to determine board pedigree and then sets the Band Switching Parameters accordingly.

Please note that for Users with **Five Band Boards** or **Seven Band Boards** that it is highly recommended that you use a **Freshly Formatted SD Card** with a **Fresh StationData.txt file** before using DX FT8 V1.8 for the first time.

When formatting the SD Card use the FAT32 Option. Also, when preparing the StationData.txt file please use a simple text editor such as Notepad.

The SD Card use should be of the **Secure Digital High Capacity (SDHC) Format**.

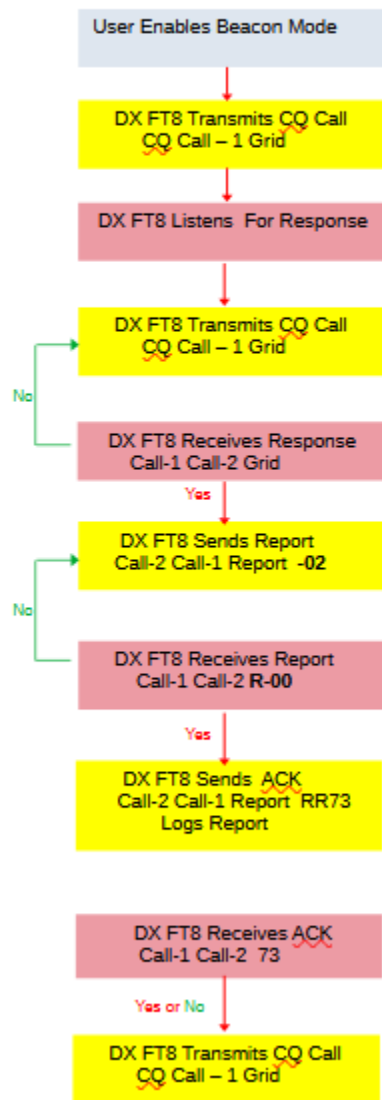
We recommend that you use this formatting tool: <https://www.sdcard.org/downloads/formatter/>

- 6) The DX FT8 User Guide has been revised to capture the changes made with the Firmware Version 1.8 Release.

Please note that Versions 1.5 thru 1.7 have not and will not be released.

DX FT8 Auto Sequence Process Operation

DX FT8 Beacon Mode



DX FT8 QSO Mode

