

Futurecom Repeater Configurator (FRC) Release Notes – December 2022

FRC Software (6A083X06): New Version:1.32 Old Version: 1.31

Note: FRC 1.32 software supports all hardware platforms: DVR-LX[®], DVR, VRX1000, PDR8000[®].

FRC 1.32 contains three main components to service all hardware programming needs

1. Configurator for VR (DVR-LX[®], DVR, VRX1000), ver. 1.32
2. Configurator for PDR8000[®], ver. 1.32
3. Flash Downloader Utility, ver. 2.00

This release of FRC is **backwards compatible with all APX repeater and PDR firmware versions**. It supports reading and writing to all previously configured devices.

VR Release Notes

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in Compatibility Chart located on the Futurecom Website in the Support Portal: Home → Support → Documentation and Software

FRC New Features / Enhancements:

- Modify FRC menus to help understand DCD/DPD templates^{DVR-1796}
- Added MSU RF Bypass Switch Extension field^{DVR-1714}
- RSSI Setup: Change a few Threshold-related fields to read-only^{DVR-1777}
- Socket fields from Menu Bar in FRC were removed^{DVR-1881}

VR Issues Fixed:

- Added Missing Channel Offset/Deviation choice for NPSPAC^{DVR-1665}
- NAC Linking should not be enabled on a Tier 2 VRX1000^{DVR-1935}
- DCD files do not propagate fields in the upper section of the Frequency Band Configuration screen^{DVR-1883}

FRC Field Names Updates

- Modify field labels in RSSI Setup window^{DVR-1745}

FRC Known Issues: N/A

PDR8000[®] Release 5.02

PDR8000[®] Product Tested:

Repeater Module Firmware:	4C088X01 R5.02
Repeater Module Boot Firmware:	4C088X02 R5.00
Transceiver DSP:	4C083X03 R1.18
Baseband DSP:	4C083X04 R1.54
IF Module Firmware:	4C088X05 R5.02
IF Module Boot Firmware:	4C088X06 R5.02

PDR8000[®] New Features / Enhancements:

- File handling enhancements - Change labels on menu entries ^{PDR-698}
- FRC field labels improved to indicate Configuration fields that are not propagated through template files ^{PDR-700}
- Remove access to fields not propagated via template files when doing offline editing of template ^{PDR-701}
- FRC field labels improved to indicate Configuration fields affecting FRC application, stored locally ^{PDR-702}
- Provide warning if user overlays a template file onto a repeater with different feature licenses ^{PDR-703}
- Improve management of IP-based configuration fields (e.g., DFSI-related fields) ^{PDR-708}
- User can access the Display Unit field ^{PDR-731}
- Add necessary protection for FM Dev. Limit & PL FM Deviation when reading DPD files ^{PDR-655}

PDR8000[®] Issues Fixed:

- Added Missing Channel Offset/Deviation choice for NPSPAC ^{PDR-705}
- Fan control got disabled when older DPD template file was loaded in PDR as default user ^{PDR-583}
- File History was not being updated in FRC ^{PDR-781}
- Default values not being set for Frequency Set 3 ^{PDR-754}
- Clarified meaning of Backlight Timeout field for PDR display ^{PDR-773}

PDR8000[®] Known Issues: N/A

HISTORICAL RELEASE NOTES FOR REFERENCE

Futurecom Repeater Configurator (FRC) Release Notes – August 2022

FRC Software (6A083X06): New Version:1.31 Old Version: 1.30

FRC 1.31 contains three main components to service all hardware programming needs

1. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.31
2. Configurator for PDR8000®, ver. 1.31
3. Flash Downloader Utility, ver. 2.00

This release of FRC is **backwards compatible with all APX and PDR repeater firmware versions**. It supports reading and writing to all previously configured devices.

VR Release

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in Compatibility Chart located on the Futurecom Website in the Support Portal: Home → Support → Documentation and Software

VR New Features / Enhancements:

- DCD Improvements: DCDs, Offline Template Editing^{DVR-1015}
- Update FRC pull down menu to reference Compatibility Chart^{DVR-1437}
- Add FRC support for Power Limit in Rackmount DVR w Power Booster^{DVR-1476}
- Added serial number restrictions to DCDs applied via FRC^{DVR-1437}
- Changed Temperature Alarm Default to 70 in FRC^{DVR-1794}
- Added warning when loading DCD created from different model repeater^{DVR-1855}
- Changed default VR ID value to 0 (zero)^{DVR-1579}
- Improve handling of template created from incompatible repeater^{DVR-1857}

VR Issues Fixed:

- When configuration with Speed in km/h & Distance in m, FRC may reports error in EEPROM maintenance icon when saving the configuration^{DVR-1443}
- Corrected Busy Lock. Thresh. min/default values in RSSI Setup window for 800MHz band DVR/DVR-LX^{DVR-1679, DVR-1485}
- Analog steering violates channel restrictions and rules of precedence^{DVR-401}
- Fixed truncation of text in the FRC Primary Secondary Setup window^{DVR-1609}
- Removed unexpected values in DPD file for RF/Analog Setup screen^{DVR-879}
- Applying wrong frequency band DCD file using FRC changes Hardware Part Number^{DVR-1848}
- FRC does not prevent writing incorrect GPS driven deactivation configuration to DVR^{DVR-1388}
- VR Ch. List and MSU TG Names not loaded properly when overwriting with DCD^{DVR-1621}
- User Info screen licenses are being changed after applying a DCD with no bundled licenses via RM-OTAP^{DVR-1614}

VR Field Names Updates

- "VRS-EP Compatible Mode Enabled" changed to "VRS-EP Compatible Mode" ^{DVR-1872}
- "Rep. Ch. Steering Enable" changed to "Rep. Ch. Steering" ^{DVR-1872}
- "Rep. Ch. Steering Revert Enable" changed to "Rep. Ch. Steering Revert" ^{DVR-1872}
- "Rep. Ch. UID Translation Enable" changed to "Rep. Ch. UID Translation" ^{DVR-1872}
- "Inband Calls Enable" changed to "Inband Calls" ^{DVR-1872}
- "Fallback in Analog Simplex Mode Enable" changed to "Fallback in Analog Simplex Mode" ^{DVR-1872}
- "Local to System Call Upgrade Enable" changed to "Local to System Call Upgrade" ^{DVR-1872}
- "VR Emergency Echo Ack Enable" changed to "VR Emergency Echo Ack" ^{DVR-1872}
- "TG1 Translation Enable" changed to "TG1 Translation" ^{DVR-1872}
- "Adaptive Power Control Enable" changed to "Adaptive Power Control" ^{DVR-1872}
- "Block TG Proxy" changed to "Enforce TG Matching" ^{DVR-1606}

VR Field Names Removed

- "MBX2 Compatibility" removed ^{DVR-1606}
- "ID" removed ^{DVR-1606}
- "Mstr Bit Clr Time" removed ^{DVR-1606}
- "Channel-0 Base Frequency" removed ^{DVR-1817}
- "Close Socket Connection" removed ^{DVR-1881}
- "Repair Socket Connection" removed ^{DVR-1881}
- "Rx Mobile Gain" removed ^{DVR-1569}
- "Mobile FM Deviation" removed ^{DVR-1569}
- "Mobile Microphone Gain" removed ^{DVR-1569}
- "Temp" removed ^{DVR-1458}
- "PA_t" removed ^{DVR-1458}

VR Known Issues/Limitations: N/A

PDR Release 5.01**Product Tested:**

Repeater Module Firmware:	4C088X01 R5.01
Repeater Module Boot Firmware:	4C088X02 R5.00
Transceiver DSP:	4C083X03 R1.18
Baseband DSP:	4C083X04 R1.54
IF Module Firmware:	4C088X05 R5.00
IF Module Boot Firmware:	4C088X06 R5.00

Futurecom Repeater Configurator (FRC) Release Notes – May 2022

FRC Software (6A083X06): New Version:1.30 Old Version: 1.29

FRC 1.30 contains three main components to service all hardware programming needs

1. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.30
2. Configurator for PDR8000®, ver. 1.30
3. Flash Downloader Utility, ver. 2.00

This release of FRC is **backwards compatible with all APX repeater and PDR firmware versions**. It supports reading and writing to all previously configured devices.

VR Release

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in Compatibility Chart located on the Futurecom Website in the Support Portal: Home → Support → Documentation and Software

VR New Features / Enhancements:

- NAC Linking Compatibility option shown when detecting firmware version 1.73 or later.^{DVR-1515}
- Eliminated incorrect warning message when loading DPD/DCDs created from a sibling DVR/DVR-LX, allowing user to move easily between DVR and DVR-LX units^{DVR-1398}

VR Issues Fixed

- FRC now warns user of mismatched licensing options^{DVR-1053, DVR-1298}
- PDR - Error shown when loading previously saved DPD file^{PDR-686}
- Offline editing DCD file does not allow creation of new Repeater Channel (issue since FRC 1.27)^{DVR-1372}

VR Field Names Updates

- FRC "Save DCD File" menu option changed from Attach to Bundle^{DVR-1489}
- Removed "Use MSU Emergency ID" on FRC Emergency Setup Window^{DVR-1460}
- "Morse Code" Sub-folder is called "Station ID Setup" in the window FRC^{DVR-1389}
- AVRA, Primary/Secondary Preference input name replaces AVRA/Primary/Secondary Preference^{DVR-1399}

VR Known Issues/Limitations: N/A

PDR8000® Release 5.00**Product Tested:**

Repeater Module Firmware:	4C088X01 R5.00
Repeater Module Boot Firmware:	4C088X02 R5.00
Transceiver DSP:	4C083X03 R1.18
Baseband DSP:	4C083X04 R1.54
IF Module Firmware:	4C088X07 R5.00
IF Module Boot Firmware:	4C088X08 R5.00

Tested With:

PSU Type: APX7000
PSU Firmware: D15.71.55
Modems: Motorola UDS V.3225, Raymar-Telenetics V3600
GCM 8000 Comparator: CvCM_R07.17.005
Digital Conventional Gateway: DCG 9000
MLC AGU: R060027

Futurecom Repeater Configurator (FRC) Release Notes – December 2021

FRC Software (6A083X06): New Version:1.29 Old Version: 1.28

FRC 1.29 contains three main components to service all hardware programming needs

1. Configurator for VR Repeaters ver. 1.29
2. Configurator for PDR8000®, ver. 1.29
3. Flash Downloader Utility, ver. 2.00

This release of FRC is **backwards compatible with all APX repeater and PDR firmware versions**. It supports reading and writing to all previously configured devices.

VR Release

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in Compatibility Chart located on the Futurecom Website in the Support Portal: Home → Support → Documentation and Software

VR New Features / Enhancements:

- The configuration field to support Primary/Secondary Preference feature is added to the Hardware setup window, also viewable under the Primary/Secondary Setup window. ^{DVR-1208}
- Monitoring Setup window: new field added for **AVRA/Motion Input**. ^{DVR-1326}
- New Business Rules:
 - VR Common Setup window: When **Rptr Independent Channel Change** is unchecked and **VR Activation vis MSU Mode Change** is checked, then all Power UP Options fields are grayed out. ^{DVR-971}
 - Repeater Channel Setup window: **UID TRNSL** can only be set to Yes when **Channel Type** is Digital. ^{DVR-415}
 - **VR AVRA Polarity** is only editable if **AVRA Uses VIP on CH** is unchecked. ^{DVR-1242}
 - Hardware Setup window: if **GPS Driven Deactivation** is enabled, a **Speed Threshold** and/or **Distance Threshold** must be configured. ^{DVR-1215}

VR Issues Fixed

- If DPD file read immediately after starting FRC, Repeater Channel Setup window is open. ^{DVR-1228}
- Default value for Rx and Tx NAC correctly set to 293 ^{DVR-1308}
- Offline DCD to DPD file creation will result in error ^{DVR-1051}

VR Field Name Updates

- VR Common Setup window: “Enable Bypass Algorithm for APX 8500” changed to “MSU RF Bypass Switch Extension (APX 8500 and All Band Antenna)” ^{DVR-1292}
- VR Common Setup window: “Fallback to Local Repeat Disabled” changed to “Block Fallback to Local Repeat” ^{DVR-272}
- Emergency Setup window: “Disable VR Emergency Call State” changed to “Block Emergency Call State” ^{DVR-272}
- Digital System Setup window: “PSU Proxy Disabled” changed to “Block TG Proxy” ^{DVR-272}
- Navigation Tree: “Maintenance (F5)” has been changed to “Maintenance” ^{DVR-1288}

VR Known Issues/Limitations

- Offline editing DCD file does not allow user to create new Repeater Channel ^{DVR-1372}
- When loading a template file after data loaded from repeater, feature licenses listed in the User Info screen show license status in the template instead of what’s in the repeater. This allows user to configure fields that require feature license; changes will not apply unless feature license applied first. ^{DVR-1298}
- Creating a DCD file from a DPD file offline is not recommended. Refer to VR Programming Guide for how to create a DCD file.
- GPS Driven Deactivation Feature: Hardware Setup window->Speed and Distance thresholds set with km/h and metres are saved incorrectly. Use mph and feet for speed and distance thresholds. ^{DVR-1443}

PDR8000® Release 4.00**Product Tested:**

Repeater Module Firmware:	4C088X01 R4.00
Repeater Module Boot Firmware:	4C088X02 R4.00
Transceiver DSP:	4C083X03 R1.18
Baseband DSP:	4C083X04 R1.51
IF Module Firmware:	4C088X05 R4.00
IF Module Boot Firmware:	4C088X06 R4.00
Tweaker Programming Software:	6V088X01 R4.00

Tested With:

PSU Type: APX7000
PSU Firmware: D15.71.55
Modems: Motorola UDS V.3225, Raymar-Telenetics V3600
GCM 8000 Comparator: CvCM_R07.17.005
MLC AGU: R060027