

## Futurecom Repeater Configurator (FRC) Release Notes – October 2023

**FRC Software (6A083X06):**                      New Version:1.36                      Old Version: 1.35

**Note:** FRC 1.36 software supports all hardware platforms: DVR-LX<sup>®</sup>, DVR, VRX1000, PDR8000<sup>®</sup>.

**FRC 1.36** contains three main components to service all hardware programming needs.

1. Configurator for VR (DVR-LX<sup>®</sup>, DVR, VRX1000), ver. 1.36
2. Configurator for PDR8000<sup>®</sup>, ver. 1.36
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.

### FRC Notes for VR release 1.85

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:** N/A

### **FRC Issues Fixed:**

- In **'VR Common Setup'** under **'Power Up Options'**, if **'Mode'** is selected as **'Fixed'** the field below **'Fixed Mode'** is greyed out <sup>DVR-2367</sup>
- When disabling the field **'VR Local Mode Allowed'** in the **'VR Common Setup'** menu, the configuration tool, FRC, shuts down unexpectedly <sup>DVR-2359</sup>
- The incorrect function call implementation was fixed in the **RSSI Setup screen**. The **Local Mode Allowed** and Operating Mode fields were enabled in the RSSI Setup screen <sup>DVR-2380</sup>

**FRC Field Names Updates:** N/A

**FRC Known Issues:** N/A

## **FRC Notes for PDR8000<sup>®</sup> release 5.04**

### **PDR8000<sup>®</sup> New Features / Enhancements:**

- N/A

### **PDR8000<sup>®</sup> Issues Fixed:**

- N/A

### **PDR8000<sup>®</sup> Field Names Updates: N/A**

### **PDR8000<sup>®</sup> Known Issues:**

- FRC may not allow editing of the "Personality Description" field in the "Personality Information" window. <sup>PDR-888</sup>  
Workaround: utilize keyboard <delete> key on this field first, then type the desired characters.

**HISTORICAL RELEASE NOTES FOR REFERENCE**

## Futurecom Repeater Configurator (FRC) Release Notes – August 2023

**FRC Software (6A083X06):**                      New Version:1.35                      Old Version: 1.34

**Note:** FRC 1.35 software supports all hardware platforms: DVR-LX®, DVR, VRX1000, PDR8000®.

FRC 1.35 contains three main components to service all hardware programming needs.

4. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.35
5. Configurator for PDR8000®, ver. 1.35
6. 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.

### FRC Notes for VR release 1.85

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:**

- Announcing Legacy Template DPD is nearing end of support, recommendation is switched to use DCD template. DVR-2241
- Legacy features, VRS-EP Options window & Tables window will no longer be accessible with firmware version 1.85 or later. DVR-2201

#### **FRC Issues Fixed:**

- Resume displaying Channel-0 Base Frequency & Channel No. Spacing in Frequency Band Window DVR-1914
- Copy button issue in Repeater Channel Setup window DVR-2214
- Primary/Secondary window Business rule not forced even when Pri/Sec Processing is disabled DVR-1984

**FRC Field Names Updates:** N/A

#### **FRC Known Issues:**

- When disabling the field '**VR Local Mode Allowed**' in the '**VR Common Setup**' menu, the configuration tool, FRC, shuts down unexpectedly DVR-2359
- The incorrect function call implementation was fixed in the '**RSSI Setup screen**'. The '**Local Mode Allowed**' and '**Operating Mode**' fields were enabled in '**RSSI setup screen**' DVR-2380

**Workaround for the above issues (DVR-2359 & DVR-2380):**

- Load data from repeater
- Open RSSI Setup window and ensure '**Operating Mode**' field is set to "OFF" or "SYSTEM"
- Close RSSI Setup window
- Load dcd/dpd file (overlays template onto current FRC displayed config) or change '**Local Mode Allowed**' field if not using a dcd/dpd file
- Save changes to repeater

## **FRC Notes for PDR8000<sup>®</sup> release 5.04**

### **PDR8000<sup>®</sup> New Features / Enhancements:**

- Improve Network Health status label in Monitoring window <sup>PDR-916</sup>
- Improve File handling when overlaying license file on template during offline editing <sup>PDR-699</sup>
- Improve the displayed labels around FM Deviation fields in Deployment General Configuration <sup>PDR-706</sup>
- Cosmetic improvement where we no longer generate errors or warnings against unused Deployment <sup>PDR-872</sup>

### **PDR8000<sup>®</sup> Issues Fixed:**

- Toggle Gate Status Button in Monitoring Window disabled by mistake under some conditions <sup>PDR-673</sup>
- Correct the status string displayed for Synthesizer field in Monitoring window <sup>PDR-818</sup>
- Analog or Mixed-mode channel should not be allowed on V.24 Deployment Profile <sup>PDR-857</sup>

### **PDR8000<sup>®</sup> Field Names Updates: N/A**

### **PDR8000<sup>®</sup> Known Issues:**

- FRC may not allow editing of the "Personality Description" field in the "Personality Information" window. <sup>PDR-888</sup>  
Workaround: utilize keyboard <delete> key on this field first, then type the desired characters.

## Futurecom Repeater Configurator (FRC) Release Notes – May 2023

**FRC Software (6A083X06):**                      New Version:1.34                      Old Version: 1.32

**Note:** FRC 1.34 software supports all hardware platforms: DVR-LX<sup>®</sup>, DVR, VRX1000, PDR8000<sup>®</sup>.

**FRC 1.34** contains three main components to service all hardware programming needs.

7. Configurator for VR (DVR-LX<sup>®</sup>, DVR, VRX1000), ver. 1.34
8. Configurator for PDR8000<sup>®</sup>, ver. 1.34
9. 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.

### FRC Notes for VR release 1.80

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:**

- FRC support to VR when factory calibration failure is detected <sup>DVR-1783</sup>
- More meaningful name for User Info window <sup>DVR-1447</sup>

### **FRC Issues Fixed:**

- Permanent Primary text box doesn't update <sup>DVR-2012</sup>
- Cosmetic FRC issue when creating channels in DVR <sup>DVR-2056</sup>
- When loading an OLD. dcd template file, Date of Programming fields are all zeroes <sup>DVR-2081</sup>
- Modify pop up message when loading newer DCD to repeater with f/w on older map <sup>DVR-2119</sup>
- Applying License file may cause FRC to no longer function <sup>DVR-1979</sup>

**FRC Field Names Updates:** N/A

### **FRC Known Issues:**

- ~~Transmission initiated from the Monitoring window may not work~~ <sup>DVR-2251</sup>
- When disabling the field '**VR Local Mode Allowed**' in the '**VR Common Setup**' menu, the configuration tool, FRC, shuts down unexpectedly <sup>DVR-2359</sup>
- The incorrect function call implementation was fixed in the '**RSSI Setup screen**'. The '**Local Mode Allowed**' and '**Operating Mode**' fields were enabled in '**RSSI setup screen**' <sup>DVR-2380</sup>

**Workaround for the above issues (DVR-2359 & DVR-2380):**

- Load data from repeater
- Open RSSI Setup window and ensure '**Operating Mode**' field is set to "OFF" or "SYSTEM"
- Close RSSI Setup window
- Load dcd/dpd file (overlays template onto current FRC displayed config) or change '**Local Mode Allowed**' field if not using a dcd/dpd file
- Save changes to repeater



## **FRC Notes for PDR8000<sup>®</sup> release 5.03**

### **PDR8000<sup>®</sup> New Features / Enhancements:**

- Update FRC with latest company Logo<sup>DVR-2023</sup>
- Extend the FRC support to PDR when factory calibration failure is detected <sup>PDR-809 and PDR-816</sup>
- FRC to block navigation to online monitoring/logging windows during offline editing session <sup>PDR-697</sup>

### **PDR8000<sup>®</sup> Issues Fixed:**

- FRC to add more fields to the DPD template <sup>PDR-704</sup>
- Update PDR Default Values in FRC <sup>PDR-757</sup>
- FRC to allow standard user access to Channel Number Spacing <sup>PDR-805</sup>
- FRC to restrict Rackmount Booster to specific channel/duplexer configurations <sup>PDR-810</sup>
- Update PDR Defaults for Reset Deployment <sup>PDR-759</sup>
- Clarify error message when creating channels in PDR <sup>PDR-828</sup>
- Certain Fields Marked with ⌘ Symbol are Propagated Through Template File <sup>PDR-860</sup>
- Improve error handling when invalid input is entered to certain fields <sup>PDR-679, PDR-680</sup>

### **PDR8000<sup>®</sup> Field Names Updates: N/A**

### **PDR8000<sup>®</sup> Known Issues:**

- FRC may not allow editing of the "Personality Description" field in the "Personality Information" window. <sup>PDR-888</sup>  
Workaround: utilize keyboard <delete> key on this field first, then type the desired characters.
- Customer sees warning message for unused Deployments <sup>PDR-872</sup>

# 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

10. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.32
11. Configurator for PDR8000®, ver. 1.32
12. 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<sup>DVR-1796</sup>
- Added MSU RF Bypass Switch Extension field<sup>DVR-1714</sup>
- RSSI Setup: Change a few Threshold-related fields to read-only<sup>DVR-1777</sup>
- Socket fields from Menu Bar in FRC were removed<sup>DVR-1881</sup>

### **VR Issues Fixed:**

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

### **FRC Field Names Updates**

- Modify field labels in RSSI Setup window<sup>DVR-1745</sup>

**FRC Known Issues:** N/A

## **PDR8000<sup>®</sup> Release 5.02**

### **PDR8000<sup>®</sup> 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<sup>®</sup> New Features / Enhancements:**

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

### **PDR8000<sup>®</sup> Issues Fixed:**

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

### **PDR8000<sup>®</sup> Known Issues: N/A**

## 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<sup>®</sup>, DVR, VRX1000), ver. 1.31
2. Configurator for PDR8000<sup>®</sup>, 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<sup>DVR-1015</sup>
- Update FRC pull down menu to reference Compatibility Chart<sup>DVR-1437</sup>
- Add FRC support for Power Limit in Rackmount DVR w Power Booster<sup>DVR-1476</sup>
- Added serial number restrictions to DCDs applied via FRC<sup>DVR-1437</sup>
- Changed Temperature Alarm Default to 70 in FRC<sup>DVR-1794</sup>
- Added warning when loading DCD created from different model repeater<sup>DVR-1855</sup>
- Changed default VR ID value to 0 (zero)<sup>DVR-1579</sup>
- Improve handling of template created from incompatible repeater<sup>DVR-1857</sup>

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

## VR Field Names Updates

- "VRS-EP Compatible Mode Enabled" changed to "VRS-EP Compatible Mode" <sup>DVR-1872</sup>
- "Rep. Ch. Steering Enable" changed to "Rep. Ch. Steering" <sup>DVR-1872</sup>
- "Rep. Ch. Steering Revert Enable" changed to "Rep. Ch. Steering Revert" <sup>DVR-1872</sup>
- "Rep. Ch. UID Translation Enable" changed to "Rep. Ch. UID Translation" <sup>DVR-1872</sup>
- "Inband Calls Enable" changed to "Inband Calls" <sup>DVR-1872</sup>
- "Fallback in Analog Simplex Mode Enable" changed to "Fallback in Analog Simplex Mode" <sup>DVR-1872</sup>
- "Local to System Call Upgrade Enable" changed to "Local to System Call Upgrade" <sup>DVR-1872</sup>
- "VR Emergency Echo Ack Enable" changed to "VR Emergency Echo Ack" <sup>DVR-1872</sup>
- "TG1 Translation Enable" changed to "TG1 Translation" <sup>DVR-1872</sup>
- "Adaptive Power Control Enable" changed to "Adaptive Power Control" <sup>DVR-1872</sup>
- "Block TG Proxy" changed to "Enforce TG Matching" <sup>DVR-1377</sup>

## VR Field Names Removed

- "MBX2 Compatibility" removed <sup>DVR-1377</sup>
- "ID" removed <sup>DVR-1377</sup>
- "Mstr Bit Clr Time" removed <sup>DVR-1377</sup>
- "Channel-0 Base Frequency" removed <sup>DVR-1817</sup>
- "Close Socket Connection" removed <sup>DVR-1881</sup>
- "Repair Socket Connection" removed <sup>DVR-1881</sup>
- "Rx Mobile Gain" removed <sup>DVR-1569</sup>
- "Mobile FM Deviation" removed <sup>DVR-1569</sup>
- "Mobile Microphone Gain" removed <sup>DVR-1569</sup>
- "Temp" removed <sup>DVR-1458</sup>
- "PA\_t" removed <sup>DVR-1458</sup>

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.<sup>DVR-1515</sup>
- 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<sup>DVR-1398</sup>

### **VR Issues Fixed**

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

### **VR Field Names Updates**

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

**VR Known Issues/Limitations:** N/A

**PDR8000<sup>®</sup> 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