

# Futurecom Repeater Configurator (FRC) Release Notes – January 2024

FRC Software (6A083X06):New Version: 1.40Old Version: 1.36

Note: FRC 1.40 software supports all hardware platforms: DVR-LX®, DVR, VRX1000, PDR8000®.

FRC 1.40 contains three main components to service all hardware programming needs.

- 1. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.40
- 2. Configurator for PDR8000<sup>®</sup>, ver. 1.40
- 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  $\rightarrow$  Support  $\rightarrow$  Documentation and Software

#### **FRC New Features / Enhancements:**

- FRC introduces a new menu entry to create a Support package, enabling user to save EPR, DCD, DPD templates & log files for debug purposes into a single ZIP file. DVR-495
- FRC no longer requires a password to access "PSU IDs Allowed" window. DVR-970

#### FRC Issues Fixed:

- In 'Digital Setup', the default value for 'Telephone Interconnect CCT' is now changed to 10min <sup>DVR-2172</sup>
- In 'Repeater Channel Setup', the default value for 'CCT' is now changed to 10min <sup>DVR-2172</sup>

FRC Field Names Updates: N/A

FRC Known Issues: N/A



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

- FRC now saves its version info in Repeater image & configuration templates. PDR-696
- FRC introduces a new menu entry to create a Support package enabling user to save EPR, DPD templates & log files for debug purposes into a single ZIP file. PDR-973
- FRC allows user to access "Rx Duplexer Losses" & "Tx Duplexer Losses" fields in each Deployment Profile's "General Configuration" window, to configure PDRs according to the duplexer being used. PDR-942

## PDR8000<sup>®</sup> Issues Fixed:

 FRC hides some Deployment Profiles when loading multiple DPD templates having conflicting license information. PDR-943

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

## PDR8000<sup>®</sup> Known Issues:

- FRC does not restore some changed parameters (Rx/Tx frequency, Tx power, RSSI Off Hyst. RSSI Speed, Squelch Speed, Temperature Alarm) when exiting the Monitoring screen window. <sup>PDR-968</sup> Workaround: manually restore any of those fields if changed, or restart PDR8000.
- FRC may not allow editing of the "Personality Description" field in the "Personality Information" window.
  PDR-888
  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 – October 2023

FRC Software (6A083X06):New Version: 1.36Old 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.

- 4. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.36
- 5. Configurator for PDR8000<sup>®</sup>, ver. 1.36
- 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  $\rightarrow$  Support  $\rightarrow$  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



## 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.
 PDR-888
 Workaround: utilize keyboard <delete> key on this field first, then type the desired characters.



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

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

Note: FRC 1.35 software supports all hardware platforms: DVR-LX<sup>®</sup>, DVR, VRX1000, PDR8000<sup>®</sup>.

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

- 7. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.35
- 8. Configurator for PDR8000<sup>®</sup>, ver. 1.35
- 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 1.85

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  $\rightarrow$  Support  $\rightarrow$  Documentation and Software

#### FRC New Features / Enhancements:

- Announcing Legacy Template DPD is nearing end of support, recommendation is switched to use DCD template. <sup>DVR-2241</sup>
- 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 <sup>DVR-1914</sup>
- Copy button issue in Repeater Channel Setup window DVR-2214
- Primary/Secondary window Business rule not forced even when Pri/Sec Processing is disabled <sup>DVR-1984</sup>

#### 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



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

- Improve Network Health status label in Monitoring window PDR-916
- Improve File handling when overlaying license file on template during offline editing PDR-699
- Improve the displayed labels around FM Deviation fields in Deployment General Configuration PDR-706
- 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 PDR-673
- Correct the status string displayed for Synthesizer field in Monitoring window PDR-818
- Analog or Mixed-mode channel should not be allowed on V.24 Deployment Profile PDR-857

#### 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.
 PDR-888
 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: 1.34Old 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.

- 10. Configurator for VR (DVR-LX®, DVR, VRX1000), ver. 1.34
- 11. Configurator for PDR8000®, ver. 1.34
- 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.

## 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  $\rightarrow$  Support  $\rightarrow$  Documentation and Software

### FRC New Features / Enhancements:

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

## FRC Issues Fixed:

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

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

#### FRC Known Issues:

- Transmission initiated from the Monitoring window may not work DVR-2251
- 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



## 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 PDR-809 and PDR-816
- FRC to block navigation to online monitoring/logging windows during offline editing session PDR-697

## PDR8000<sup>®</sup> Issues Fixed:

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

### 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.
  PDR-888
  Workaround: utilize keyboard <delete> key on this field first, then type the desired characters.
- Customer sees warning message for unused Deployments PDR-872



# Futurecom Repeater Configurator (FRC) Release Notes – December 2022

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

- 13. Configurator for VR (DVR-LX<sup>®</sup>, DVR, VRX1000), ver. 1.32
- 14. Configurator for PDR8000<sup>®</sup>, ver. 1.32
- 15. 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  $\rightarrow$  Support  $\rightarrow$  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 PDR-698
- 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 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<sup>®</sup> 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<sup>®</sup> Known Issues: N/A



# Futurecom Repeater Configurator (FRC) Release Notes – August 2022

FRC Software (6A083X06):New Version: 1.31Old 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  $\rightarrow$  Support  $\rightarrow$  Documentation and Software

## VR New Features / Enhancements:

- DCD Improvements: DCDs, Offline Template Editing DVR-1015
- 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 DVR-1476
- Added serial number restrictions to DCDs applied via FRC <sup>DVR-1437</sup>
- 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<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 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 <sup>DVR-1614</sup>



## **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" <sup>DVR-1872</sup>
- "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-1377

## **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 DVR-1817
- "Close Socket Connection" removed <sup>DVR-1881</sup>
- "Repair Socket Connection" removed DVR-1881
- "Rx Mobile Gain" removed <sup>DVR-1569</sup>
- "Mobile FM Deviation" removed <sup>DVR-1569</sup>
- "Mobile Microphone Gain" removed DVR-1569
- "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:1.30Old Version: 1.29

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

- 1. Configurator for VR (DVR-LX<sup>®</sup>, DVR, VRX1000), ver. 1.30
- 2. Configurator for PDR8000<sup>®</sup>, 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  $\rightarrow$  Support  $\rightarrow$  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 <sup>DVR-1398</sup>

## **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) <sup>DVR-1372</sup>

## 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 <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