

Futurecom Repeater Configurator (FRC)

Release 1.31 – Release Notes – August 2022

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

Note: FRC 1.31 software supports all hardware platforms: DVR-LX®, DVR, VRX1000, PDR8000®.

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

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

FRC is compatible with following Futurecom Firmware Versions:

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

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in compatibility chart.

Firmware Compatibility Chart is located on the Futurecom Website in the Support Portal:
Home → Support → Documentation and Software →DVR-LX/DVR/VRX1000

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}

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

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

Field Names Updates

- "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

Known Issues

- N/A

HISTORICAL RELEASE NOTES FOR REFERENCE

Futurecom Repeater Configurator (FRC)

Release 1.30 – Release Notes – May 2022

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

Note: FRC 1.30 software supports all hardware platforms: **DVR-LX[®], DVR, VRX1000, PDR8000[®].**

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

4. **Configurator for VR Repeaters (DVR-LX[®], DVR, VRX1000, PDR8000[®]), ver. 1.30**
5. **Configurator for PDR8000[®], ver. 1.30**
6. **Flash Downloader Utility, ver. 2.00**

FRC is compatible with following Futurecom Firmware Versions:

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

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in compatibility chart.

Firmware Compatibility Chart is located on the Futurecom Website in the Support Portal:
Home > Support > Documentation and Software > DVR-LX/DVR/VRX1000

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}

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}

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}

Known Issues

- N/A

Release 1.29 – Release Notes – December 2021

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

Note: FRC 1.29 software supports all hardware platforms: **DVR-LX®, DVR, VRX1000, PDR8000®**.

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

7. **Configurator for VR Repeaters (DVR-LX®, DVR, VRX1000, PDR8000®), ver. 1.29**
8. **Configurator for PDR8000®, ver. 1.29**
9. **Flash Downloader Utility, ver. 2.00**

FRC is compatible with following Futurecom Firmware Versions:

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

To access new features/enhancements/improvements listed below, the repeater must be using applicable firmware version as identified in compatibility chart.

Firmware Compatibility Chart is located on the Futurecom Website in the Support Portal:
Home > Support > Documentation and Software > DVR-LX/DVR/VRX1000

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}

Issues Fixed

- If DPD file read immediately after starting FRC, Repeater Channel Setup window is opened. ^{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}

Field Names 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}

Known Issues

- Offline editing DCD file does not allow to create new Repeater Channel ^{DVR-1372}
- When loading a template file after data was loaded from repeater, Feature Licenses listed into the User Info screen will show the licenses status in the template instead of what’s in the repeater. This may allow user to configure fields that require feature license. This allows configuration of licensed feature fields that will not apply to a VR unless the feature license has been applied first. ^{DVR-1298}
- Creating a DCD file from a DPD file offline is not recommended at this time. Please refer to the instructions in the 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}

FRC Release 1.28 –September 1, 2021

Compatible with following VR Firmware Versions: 1.71 or earlier

New Features / Enhancements in Release 1.28:

- Allow feature licenses to be applied to a template file (DCD/DPD) offline. ^{DVR-853}
- Added ability to “Inspect DCD file”: provides visibility to serial number and feature license information. ^{DVR-857}

Issues Fixed in Release 1.28

- Downgrade from Tier3 to Tier1 does not use autocorrection for digital channel types. When a template is applied to a Tier1 VRX1000 with unsupported channel types, FRC automatically changes the channel type to Analog but user is then prevented from saving the file. FRC now leaves the channel type as per the template file but highlights the field in red for user correction. Saving of the file is then allowed. ^{DVR-508}
- Monitoring Window→PL field displays empty green box for FW 1.63 and older. ^{DVR-1027}

Field Name Updates in Release 1.28

- Changed File→"Apply License File to Repeater" to "Apply License File". ^{DVR-853}

Known Issues in Release 1.28

- Minimize button on configuration windows does not work after maximizing window size. Workaround: Restore Down button may be used instead. ^{DVR-896}
- When MSU is set to a display language other than English, MSU Data→Radio Display Language is incorrectly flagged as an error. Workaround: Set MSU display language to English. ^{DVR-904}
- When a single negative number is entered (e.g. -7) into either VR Remote Activation IDs or PSU IDs Allowed table, it will automatically be treated as range 0 to 7. ^{DVR-1055}
- Offline DCD to DPD file creation will result in error. ^{DVR-1051}

Field Name Updates in Release 1.28

- Changed File→"Apply License File to Repeater" to "Apply License File". ^{DVR-853}

FRC Release 1.27 – Release Notes July 2021

Compatible with following VR Firmware Versions: 1.70 or earlier

New Features / Enhancements in Release 1.27:

- GPS Driven Deactivation—new licensed feature that requires new firmware and GPS enabled radio.
- NAC Linking feature
- Allow saving DCD files with errors to save progress for future editing. ^{DVR-851}
- Added capability to create a backup EPR file for Futurecom Support during firmware upgrade/downgrade. ^{DVR-701/702}
- Added default filename (based on serial number) for DCD files when saving. ^{DVR-873}
- When Hardware Setup → AVRA → Automatic VR Activation is disabled (unchecked), all other AVRA fields are greyed out. ^{DVR-739}
- Added license file to command line (use -d1 -u<filename>) ^{DVR-374}
- Added file history for DCD files for easier access to recently used files ^{DVR-872}

Issues Fixed in Release 1.27

- EEPROM Maintenance icon flashing yellow incorrectly identifying configuration changes to be saved after loading DPD/DCD file. ^{DVR-484}
- Configuration changes to Mobile Radio Channel Setup → VR Ch. List for MSU Zone/Channel entry 1364 and over not saved. ^{DVR-263}
- Unintentionally changing the configured values for PSU Scan in the Repeater Channel Setup window when loading a DPD template file. ^{DVR-832}
- Fixed DPD loading not applying user license options. ^{DVR-837}
- Added warning message upon loading of DPD files saved with older versions of FRC/Tweaker:
"Warning—VR Activation via MSU Mode Change field value may not have been retained. Please go to the VR Common Setup window and verify the value set will provide expected operation."
^{DVR-878}

Field Name Updates in Release 1.27

- Main Menu: File menu entries updated. ^{DVR-852}
 - "Load Rescue File" updated to "Apply Rescue File to Repeater"
 - "Load License File" updated to "Apply License File to Repeater"
 - DPD Files → "Apply DPD to APX Repeater" updated to DPD Files → "Apply DPD to Repeater"
 - DCD Files → "Apply DCD to APX Repeater" updated to DCD Files → "Apply DCD to Repeater"
- VR Common Setup window: "No Activity Timer" updated to "Inactivity Timer" ^{DVR-836}
- Reorganize controls for saving DCD with license ^{DVR-855}
 - removed File → DCD Files → "Save DCD File with License"
 - updated File → DCD Files → "Save DCD File" dialog box with license selection option

Known Issues in Release 1.27

- Minimize button on configuration windows does not work after maximizing window size.
Workaround: Restore Down button may be used instead. ^{DVR-896}
- When MSU is set to a display language other than English, MSU Data→Radio Display Language is incorrectly flagged as an error. Workaround: Set MSU display language to English. ^{DVR-904}
- When a single negative number is entered (e.g. -7) into either VR Remote Activation IDs or PSU IDs Allowed table, it will automatically be treated as range 0 to 7. ^{DVR-1055}
- Offline DCD to DPD file creation will result in error. ^{DVR-1051}

FRC Release 1.24 –February 11, 2021

Compatible with following VR Firmware Versions: 1.64 or earlier

New Features / Enhancements:

- Improve clarity of error messages when loading license file that has already been applied. ^{DVR-513}
- Aligned Feature License name with our official names in Ordering Guide. ^{DVR-545}
- Added warnings when reading/writing live data, DPD or DCD files if FM deviation values are low. ^{DVR-552}
- Changed "EPR Files" in menu to "EPR Files (Futurecom Support)". ^{DVR-550}
- Added Copy Data feature for Repeater Channel screen.
- Renamed "Legacy PSU Compatibility Mode Enabled" to "Legacy PSU Compatibility Mode"
- DCD file can be upgraded with license option file.
- Renamed OTAP Setup screen to Update Info and display the screen at all times

Issues Fixed in This Release

- Fixed issue where single band FM deviation value was incorrectly halved when loading old DPD files. ^{DVR-552}
- Fixed Talkgroup ID out of range error message being off by 1 for the start of the range.
- Fixed loaded DCDs displaying incorrect serial numbers when re-saving.
- RSSI for monitoring window may not be displayed properly – fixed.
- Fixed VR Common setup window causing invisible error. ^{DVR-537}

Reminder

Creation or modification of DCD should be done after a repeater is read.

FRC Release 1.22 – November 24, 2020

Compatible with following VR Firmware Versions: 1.63 or earlier

New Features / Enhancements:

- Added info in popup when user attempts to add entry to maxed out table screen (PSU IDs, VR Activation IDs, TG Translation table, and channel screens) (DVR-261)

Issues Fixed in This Release

- Power Up Mode programming not transferred properly via DCD file (DVR-482)
- Invalid DCD / DPD created if USB cable switched and VR Info requested (DVR-488)
- Fixed Steering ID searching for duplicate IDs in zones, causing unnecessary errors to appear (DVR-503)
- Fixed MSU sync hash not updating when saving a DCD from a loaded DCD (DVR-509)

Reminder

Creation or modification of DCD should be done after a repeater is read. Create a new DCD template or apply old one and make the necessary modification.