

APX P25 Interfaced VR Firmware Release 1.64 – Release Notes

	New Version	Old Version
VR Application Software (4C083X11):	1.64	1.63
VR Boot Firmware (4C083X02):	1.60	1.60
VR BB DSP (4C083x04):	1.70	1.70
DVR/DVR-LX® TR DSP (4C083x03):	1.18	1.18
VRX1000 TR DSP (4C087x05):	1.07	1.07
Futurecom Repeater Configurator Software (6A083X06):	1.25	1.22

Note: New firmware and FRC software support all hardware platforms - VRX1000, DVR and DVR-LX®.

Compatible with following Motorola Radio Firmware Versions:

DVR	APX4000/6000/6500/7000/7500/8000/8500	R23.00.00 or later
DVR-LX®	APX4000/6000/6500/7000/7500/8000/8500	R23.00.00 or later
VRX1000	APX2500/4000/4500/5500/6000/6500/7000/7500/8000/8500	R23.00.00 or later

NOTE: Older MSU firmware is not compatibility with this release- **MISMATCH ERROR** message will display on control head. Please check Futurecom website for Compatibility Chart.

New Features / Enhancements:

- SmartConnect In Vehicle Range Extension: Supports MSI SmartConnect to allow In-Vehicle Range Extension through VR. Refer to Futurecom VR Functional Description for full feature description and limitations.
- Improved OTAP license processing: allow RM OTAP license to be applied on DVR via RM/MSU
- Prevent multiple portables from context activating at the same time: hide data capabilities for 60 sec when more than two PSUs are activating (attaching) within 30 seconds
- Improved Local to System call upgrade capability on TDMA systems (use the last granted FR/HR for local fallback repeat from LPSU)
- Improved PSU Authentication handling on simplex digital VR channels
- Improved Hot Mic Emergency alarm and call handling on simplex analog channels

Issues fixed in this release:

- On a simplex analog channel, VR may inadvertently repeat back to the system a short burst of outbound call audio. User will notice a loopback effect.
- DVR in Simplex Analog mode does not follow the Reverse Power setting in FRC and always sends out a Primary Heat Beat at 40dBm (Max Power) ^{DVR-392}
- If programmed for Unconditional VR Emergency Ack, DVR fails to send Ack to PSU when MSU is unable to proxy emergency request to the system (for example MSU is OOR). PSU would continue to send Emergency Alarm request until all retries exhausted.
- When the DVR is on a Mixed Mode channel and the Mixed mode timer is running, PTT from DVRS Enabled PSU was initiating Digital Call instead of Analog ^{DVR-500}
- While MSU is operating on Foreign Systems, DVRS was incorrectly displaying “VR Limited” ^{ASTRO_SUB-31601}

- First press of PM (Permanent Primary) button in DVRS Menu may get rejected for no apparent reason ^{DVR-521}
- Inconsistent mode change via Control Head Keypad – fix allows user selection of any VR mode (Off/Local/System) when an MSU channel is configured as "User" ^{DVR-400}
- If MSU is OOR or NO COMMS and unable to attach PSU, local only call is initiated on TG 0 and dropped immediately due to TG mismatch (affected configuration: Fallback to Local Repeat - enabled, Local to System Call Upgrade – enabled).
- If sequence of pre-programmed analog tones is exceeding 3 seconds, tone transmission is truncated ^{DVR-501}
- Some APX 8500 radios may fail to power up in correct mode when Fixed Power-up mode is programmed ^{DVR-497}
- When PL/DPL steering requires DVR mode change only (no MSU zone/channel change), DVR fails to change mode ^{DVR-402}
- If Flexible Mode Change is enabled, remote activation via DTMF sequence cycles the DVR through SYS>LOC>OFF modes instead of always changing mode to SYS. ^{DVR-410}

Known issues in Firmware Release 1.64:

- When the MSU is programmed for Emergency Call only, the DVR does not revert from Local to System Mode ^{DVR-549}