

APX P25 Interfaced DVR/VRX1000 Firmware Release 1.40 – Release Notes

DVR/VRX Application Software (4C083X11): New Version: **1.40**; Old Version: 1.30

DVR/VRX BB DSP (4C083x04): New Version: **1.40**; Old Version: 1.38

DVR TR DSP (4C083x03): New Version: **1.18**; Old Version: 1.17

VRX TR DSP (4C087x05): New Version: **1.07**; Old Version: 1.06

Tweaker Software (6A083X05): New Version: **1.14**; Old Version: 1.12

Note: New firmware and Tweaker software is supporting both hardware platforms - VRX1000 and DVR.

Compatible with following Mobile Radio Firmware Versions:

APX2500/4500/5500/6500/7500: R16.00.00

APX8500: R16.10.00

New Features / Enhancements:

- **APX8500 DVRS MSU Support** – DVRS now supports APX8500 mobile radios.
- **Extended ISSI Roaming Support** – prior to this release DVRS ISSI functionality on Inter-WACN Roaming enabled networks was limited to Emergency Alarms only. This release adds support of inbound and outbound calls from/to local PSUs on Inter-WACN Roaming networks. Supported call types includes clear, encrypted, emergency and patched calls.
- **PSU Unit ID Translation** - Unit ID Translation feature is a new DVR digital channel feature. When it is enabled, DVR will proxy inbound group call, emergency alarm and emergency cancel to the system using MSU Unit ID and Talkgroup ID.
- **MDC ID Translation** – this feature allows DVRS user to program an offset for PSU MDC IDs. MDC ID Offset is used for all inbound and outbound calls, effectively allowing user to shift PSU IDs into desired P25 trunking ID range.

Issues fixed in this release:

- If PSU emergency alarm proxy fails due to FNE DENY (PSU ID is illegal on the system), DVR repeat of an emergency call from the same PSU is delayed for couple of seconds.
- If there was a source-ID based call takeover on the inbound channel, MSU may transmit over the air on behalf of non-enhanced PSU with invalid trunking ID.
- On TDMA channel, MSU may stop unmuting and proxying PSU audio after DVR mode is changed from Local to System.
- If MSU mode is changed from Conventional to P25 Trunking while local PSU repeat is in progress, PSU ICM stops and fails to unmute for the remaining part of the PSU call.
- On Single Channel Trunking (VDOC) systems, if local PSU makes signaling request while MSU is receiving voice call, DVR prematurely sends Deny response to PSU causing PSU to stop retries.
- If DVR is on Forced Analog All channel and Secure is enabled on MSU, PSU inbound call fails.
- If DVR is on Forced Analog All channel and Analog Encrypted Call is programmed for Warning Tones, no warning tones are issued for encrypted Mic calls or encrypted outbound calls.
- If PSU initiated individual call is denied due to MSU roaming to the Foreign System PSU does not display DENY message

Known issues in Firmware Release 1.40:

- None.