MOTOROLA SOLUTIONS

Motorola Solutions

MOTOTRBO® Connect Plus System Release Notes

Professional Commercial Radios (PCR) & Accessories

Version: R1.7.5 (R2.6.5)

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MOTOTRBO August 2016 Software Release

Contents

Overview

This section details the known MOTOTRBO product issues which remain outstanding at the time of this release of software to the field.

Known product issues are divided into two categories:

- Known issues contained within the current release

- Resolved Issues that have now been fixed within the current release

Definitions

A known issue is a problem that is currently unresolved (open).

A closed or resolved issue is one that has been repaired and no longer should occur in the product after upgrading to the new product version.

The risk and workaround aspects are included in the release note description (Known Issues) for overall assessment of the problem.

What's new in the 1.7.5 (2.6.5) Release

There are no new features in the 1.7.5 Release. See the Resolved issues section for issues that have now been corrected with this release. Please note the features reflected below were part of the original R1.7 (2.6) release and shown for reference.

Digital SIP Telephony

The XRI 9100 Telephone Interconnect Gateway will introduce an expanded IP-based support by interfacing to a Cisco Unified Communications Manager (CUCM) - to allow a customer to manage their enterprise telephony endpoints, such as IP phones, IP softphones, VoIP gateways, desktop communication apps, etc. Call setup and routing between XRI and XRC shall operate the same way in prior releases – including Phone to LMR radio, Phone to LMR talkgroup, LMR radio to phone (Note: "Phone" signifies any external device communicating through CUCM). The XRI 9100 shall support tiered licensing with the following capacities and features:
- Ten (10) SIP simultaneous telephony sessions
- Twenty (20) SIP simultaneous telephony sessions
- Feature license shall be applied and enforced for any SIP host that XRI communicates with; this includes the legacy interface with the Cisco SPA-8800.

Emergency Call Enhancement

The Emergency Call Enhancement feature scope provides an optional configuration in CP CPS to ignore an Emergency call - when the radio is utilizing the Default Emergency Revert Group ID (DERGID) setting. Upon configuring this option, the radio will ignore the control channel call grant and will not join the emergency call. Feature scope supported on both - Matrix and Paradise radio platforms.

SLR 8000 Repeater Support
The SLR 8000 Base Station Repeater will be fully supported in the Connect Plus system topology. All features supported on XPR and MTR3000 series Repeaters will also be supported on the SLR 8000. The SLR 8000 will offer additional features, alarming and diagnostic capabilities, and higher specifications compared to the recently announced SLR 5000.

Permanent Talk-group Registration
The Permanent Talk-group Registration feature scope provides the ability for radio users to permanently register a talk group to a site. The use case ensures audio for the talk group will be delivered to the site even when no radios directly register for that talk group. This enhances the Connect Plus Group Scan feature; ensuring groups of interest can always be scanned.

Site Talk Group Restrict
The Site Talk Group Restrict feature scope provides the ability for the system to deny a new user registration on the Restricted Group at a particular site. The use case ensures flexibility for a site topology (with fewer channels) to limited a heavy radio user on certain talkgroup.

Digital Base Site Identification
The Digital Base Site Identifier (BSI) feature scope provides for an alternate method to the Continuous Wave Identifier (CWID), transmission in Morse Code on the repeater channel in analog mode for the digital control channel frequency of the repeater. The Digital BSI method is used to schedule and transmit DMR compliant text message on the repeater time slot that is not being used for outbound Control Channel signaling. Digital Test Set vendors that support the DMR protocol (Aeroflex, Anritsu and General Dynamics) will support decoding and displaying the MOTOTRBO Digital BSI.

Single Firmware File Upgrade Improvement
The Single Firmware File Upgrade Improvement feature scope provides the ability for a single software firmware to be ordered or downloaded from Motorola On-Line; thereafter uploaded to the XRC, XRT and XRI. This is an improvement from the current pre-R1.7 method where the customer would need to order a special serial number based software for each site, gateway or telephone gateway. Customer require a base R1.6 upgrade before this new more cleaner upgrade method can be utilized.

Indoor Location Tracking
The Indoor Location Tracking feature scope provides the ability for tracking a radio user inside of a building or indoor conditions. The use case is supported with the Beacon technology and Application Developer Partner tools – which accurately tracks the indoor location data points and applies it to mapping application software.

280 Text Message Character
The Text Message Character feature scope provides the ability for a radio user to send and receive text messages of up to 280 characters (in case of Subject Line Retention use case, limited to 278 character). The quick messages will follow the configuration as the composed message wherein the length of the text shall be determined based on the value configured in CPS.

Selectable Application Display Language at Runtime

The Selectable application display language at runtime feature allows the user to change the language after launching the Connect Plus applications. In prior releases, the application was restricted to using the computer's operating system language in use.

Option to Defer Device Reboot

The Option to Defer Device Reboot feature allows the user to select to reboot at a later time. In prior releases, the application would require a reboot for every critical setting change(s) made to the XRC or XRT. In this release, upon a user updating a Critical Setting for a XRC Controller or XRT Gateway, the application user is presented with a screen offering two choices:

- Reboot Now: The device reboots and updates to the new setting(s).
- Reboot Later: The device enters "Pending Reboot" state. It remembers the new value, but will not operate with the new setting until after the next reboot. This allows the application user to change multiple Critical Settings on multiple screens prior to the reboot. Only the application session that placed the device in Pending Reboot state can make further changes. The reboot occurs when commanded by the application user, or when the connection between the application session and the device ends for any reason

Raise Access Level on Boot

The Raise Access Level on Boot feature may help mitigate collisions on Control Channel (CC) input frequency due to a large number of radios attempting to register at same time following device reboot. The Raise Access Level on Boot will have a new setting (checkbox) for XRC Controllers. It is located on the Network Manager Configuration screen (under Non-Critical Settings). The setting defaults to OFF (unchecked).

SLR 5000/8000 Real Time Clock and Time Stamp

The SLR 5000 will support configuration and maintain a clock and provide time stamp information for applicable alarms and events. The Real Time Clock will be supported on all MOTOTRBO systems.

SLR 8000 Digital Local Audio

The SLR 8000 will support the capabilities of allowing a user to playback a voice audio stream on a select channel. Digital Local Audio will be supported on all MOTOTRBO systems for playback and on Conventional mode only for transmit. Software License Required.

Domain Name Service Usage for Master Repeater

The MOTOTRBO Repeater platforms will support the user configuration capabilities using a Domain Name Service. This will be an alternative method to the configuring an IP address.

Radio Audio Improvements

This feature enhancement allows the following audio improvements:

1. Radio improvements to the audio processing found in the Paradise radio product line. As a result the audio will sound a little brighter and a little clearer to some users with this release.
2. A new language specific setting under the Audio Profile heading in CPS. This option applies specific audio processing for Dutch, Indonesian, Italian and Spanish.

Product Versions

Listed below are all MOTOTRBO Product types with a reference to the released version of software:

MOTOTRBO Product	Version Supported in Release
Subscriber – MOTOTRBO 2.0, 2.5 (including SL Series) - Paradise Subscriber – MOTOTRBO - Paradise-Light Subscriber – MOTOTRBO - Matrix	R02.06.05.0002 R01.01.05.0001 R01.12.17
Option Board – MOTOTRBO 2.0 (including SL Series) - Paradise Option Board – MOTOTRBO - Matrix	R02.06.05 R01.07.45
Repeater – XPR 8300/8400 Series Repeater – MTR 3000 Repeater – SLR 5000 Series Repeater – SLR 8000 (UHF) Repeater – SLR 8000 (VHF)	R02.06.00.07 (CP R17.00.16) R02.06.00.08 (CP R17.00.16) R02.06.00.08 (CP R03.00.24) R02.06.00.53 (CP R03.00.55) R02.06.00.72 (CP R03.00.55)
Radio Management CPS CP-CPS	V2.1.17 CPS V13.5 Build 679 R02.06.05
XRC 9000/9100 firmware	R02.60.05.0424_898
XRT 9000/9100 firmware	R02.60.05.0424_898
XRI 9100 firmware	R02.60.05.0424_706
Network Manager Connection Tool	R02.60.05.0424_706
Network Manager	R02.60.05.0424_706
XRT 9000/9100 Configuration Tool	R02.60.05.0424_706
Tuner	V13.5 Build 221
RDAC	V7.5 Build 99
Application Development Partner Documentation: • MOTOTRBO Location Request & Response Protocol (LRRP) ADK Specification for Connect Plus v0104 • MOTOTRBO Location Data ADK Guide for Connect Plus v0105 • MOTOTRBO Data Services Overview for Connect Plus v0103 • MOTOTRBO Text Messaging ADK Guide for Connect Plus v0104	

HIGHLIGHTED LINES INDICATE NEW SOFTWARE OR PRODUCT

3rd Party Applications	Version Supported in Release
GW-3	3.2.12.27.0
VP Gate	4.1.8.2
Avtec Scout	4.1.7.14
VPGate Advanced Radio Support w/Encryption	4.1.7.5
Smart PTT	SmartPTT PLUS - 9.0.0.23016
TRBOnet	TRBOnet PLUS - 5.0.0.1018

1. ****** All 3rd party Applications support listed above requires an XRT 9000/9100 Gateway**

2. *****If you are currently using Radio Management version 1.3 or earlier (the one released with CPS version 9.0), please make sure to uninstall RM Server before upgrading to this new version. Please note that the database will be upgraded automatically by this new version.**

   ▪ **Important Note:** If you would like to use radios with firmware version R02.50.00 or later in Radio Management, you must also upgrade RM Device Programmer to the latest version 1.8 (included with CPS version 12.0).

IMPORTANT NOTE:
Effective NOV-2016, MSI will be making changes to the Entitlement Identification (EID) license certification. As a result, all new feature EID license registration and activation **WILL** require system release MOTOTRBO R2.6.5 Radio Management (and/or CPS) and Connect Plus Network Manager.

· For customer upgrading CPS, Radio Management or Connect Plus Network Manager to R2.6.5 release, the new license certification update will allow you to register any non-registered licenses pending from software versions.

· For customer wanting to remain on pre-R2.6.5 CPS, Radio Management or Network Manager versions, this will not be an issue if you do not have any outstanding EID license registration pending.

· For customer wanting to remain on pre-R2.6.5 CPS, Radio Management or Network Manager versions, it's recommended that you register and activate any outstanding EID license before this NOV-2016 deadline.

· For customer using an earlier CPS, Radio Management or Network Manager System release version (pre-R2.6.5), any attempts to register or active an EID feature license will fail. This is due to older certification exchanges error.

Known issues in product release

Network Manager Impact

Issue Number:	**CCMPD02002282**
Product Version:	Network Manager
Description:	Network Manager did not clear the "Package Data Call" from Real Time Display - after control channels disabled.

> *Steps:*
> *1. Setup package data call*
> *2. Disable controller channels from the RDAC while subscriber sending package data call*
> *3. NM did not clear "Subscriber is target of package Data Call 65535" from TRD. Three in Call stuck on RTD.*

Observed Failure:	NM did not clear the "Subscriber is target of package Data Call 65535" from RTD after control channels disabled
Expected Result:	Network Manager should clear the "Subscriber is target of package Data Call 65535" from Real Time Display after control channels disabled.
Workarounds:	None.

Issue Number:	**CCMPD02054710**
Product Version:	XRI Network Manager
Description:	XRI configuration windows Close button does not work without all fields being complete.
Observed Failure:	The "Close" button in the configuration window does not operate/respond normally. The red button with the "X" in the upper right corner of the window does allow the window to be closed but first asks the user if the changes should be discarded or not.
Expected Result:	The "Close" button in the lower right corner of the configuration window allows the window to be closed but first displays a pop up message to confirm whether the user wants to discard the changes or not.
Workarounds:	None.

XRI 9100 Impact

Issue Number: **CCMPD02058542**

Product Version: XRI

Description: XRI failure for allowing the monitor user role to change network settings.

> *Steps:*
> 1. *Open the XRI Configuration*
> 2. *Switch the selected tab to either MultiSites or SIP Gateway Config*
> 3. *Network menu option becomes enabled.*
> 4. *Make changes to network and save changes*

Observed Failure: Monitor user role is allowed to change network settings on an XRI

Expected Result: Monitor user role should not allow to change network settings on an XRI.

Workarounds: None.

Subscriber/Option Board Impact

Issue Number: **CCMPD02072873**

System/Product: Connect Plus/All Radio Models

Description: Persistent LRRP Requests message data (use for Location Update) will be cleared when upgrading to release 2.6.0. The LRRP Location application must resend the LRRP Request message to the Radio to restore Persistent LRRP update service. Since, the LRRP application relies on Radio registration and subsequent LRRP update to determine whether it needs to resend the LRRP Request message to the Radio, the Radio LRRP update service may be delayed, worse case could be up to the max CPS configurable ARS Initialization Delay(i.e. 240 minutes). By default Persistent LRRP Requests is not enabled on the radio

Workarounds: After upgrade to 2.6.0, resend location request from Location application to upgraded radios.

Issue Number: **CCMPD02038621**

Product Version: Paradise Radio Model

Description: Horn & Lights Programmable Button and Menu do not Sync.

> *Steps:*
> *1. Go to Radio Settings Menu enable Horns & Lights*
> *2. Press PB for Horns & Lights, notice that it will say "Horns & Lights On"*
> *3. Press PB for Horns & Lights, notice that it will say "Horns & Lights Off"*
> *4. Go to Radio Settings Menu notice that Horns & Lights is still enabled*

Observed Failure: Failure observation based on following user configuration:

- When Horns & Lights is enabled from the menu the radio will use the alarm settings that were set in CPS even while in connect plus mode.
- When Horns & Lights is enabled using Programmable Button the radio will use the alarm settings that were set using CPCPS.
- If CPS and CPCPS programmed the same Horns & Lights "alarm" setting the user will not notice any issue. Using the wrong "alarm" setting is only seen when there is a mismatch between CPS and CPCPS Horns & Lights "alarm" setting.

Expected Result: Horn and Lights button and menu should match.

Workarounds: None.

Issue Number: **CCMPD02046620**

Product Version: Paradise Radio Model

Description: Assigning Wi-Fi to action list in legacy Malta does not allow selecting other features.

Steps:
1) *Assign Wi-Fi in action list for legacy Malta radio*
2) *Select the action programmable button and press on the Wi-Fi option.*

Observed Failure: Once Wi-fi is assigned to an Action list for Legacy radios and if user presses the Wi-Fi menu from the Action list, a bad bonk is played to indicate Wi-Fi is not supported. However the Action list cannot be scrolled up and down to select other features assigned to the Action list.

Expected Result: Wi-Fi is only supported on Refresh radios, so Wi-Fi should not be allowed to be configured in Legacy Malta Action list. If allowed to be configured then the user should be allowed to scroll up and down in the action list to select other features.

Workarounds: None.

CP-CPS Impact

Issue Number: **CCMPD02065956**

Product Version: CP-CPS

Description: CP-CPS Online Help does not include Emergency Enhancement

Observed Failure: CP-CPS doesn't include the Online Help description of the configuration details and options related to the Emergency Enhancement feature support. User is still allowed to configure the feature.

Expected Result: CP-CPS Online Help should include the Emergency Enhancement feature support details and user options.

Workarounds: Reference the system planner for all Emergency Enhancement feature options and description.

Resolved issues in product release

Resolved issues are the known product problems that were reported in products releases, but have now been fixed or closed.

Issue Number	Version Found	Product Found	Impact Description
CCMPD02018478	R1.5	Repeater	Repeater Locks RX after BSI Transmitted on Control Channel (C3: 24482088)
CCMPD02038611	R1.6	Option Board	Sending a Text Message to a Group shows ID instead of Alias
CCMPD02038614	R1.6	Option Board	After Triggering Emergency Alert the display does not go back to home screen
CCMPD02040517	R1.6	Option Board	Wifi On/Off string is too long for PB display when set to Front Button 1
CCMPD02041616	R1.6	Option Board	Text to speech does not play for Wifi On/Off Programmable Button
CCMPD02047111	R1.6	Option Board	WiFi Update file transfer is failing on radio power up
CCMPD02016905	R1.6	Option Board	Site Lock PB should not be allowed while searching
CCMPD02017759	R1.6	Option Board	Matrix subscriber's red LED remains on after receiving text message and data call.
CCMPD02043147	R1.6	XRT	Heartbeat messaging does not work with some 3rd party applications
CCMPD02042832	R1.6	XRC	Fast GPS feature label blank and burns valid licenses
CCMPD02042766	R1.6	XRI	Improper software behavior when accessing XRI Settings
CCMPD02039936	R1.6	Network Manager	Network Manager crash when reading larger data (i.e. logs)
CCMPD02037961	R1.6	XRC	Redundant sync and AUHU can become broken intermittingly
CCMPD02037408	R1.6	XRC	XRC configuration file indicate corruption
CCMPD02029139	R1.6	XRC	Text Messages is stuck in Message Store
CCMPD02023387	R1.6	XRI	XRI crashes with second phone call same group intermittingly
CCMPD02022020	R1.6	XRI	XRI firmware upgrade fails and causing improper boot-up
CCMPD02020170	R1.6	XRC	After OS upgrade, XRC boot up is slower than expected
CCMPD02019502	R1.6	XRC	XRC cannot restore Users from backup due to corruption
CCMPD02019169	R1.6	Network Manager	XRI TCP Listen Port change does not save in Network Manager
CCMPD02017797	R1.6	Avtec	3rc party Avtec unable to make calls
CCMPD02017780	R1.6	XRT	XRT doesn't accept the network management setting changes
CCMPD02017756	R1.6	XRT	XRT gets stuck in a Standalone or Primary/Inactive
CCMPD02016891	R1.6	Network Manager	Critical and non-critical configuration save to 1.6 XRC triggers Network Manager error and goes through unexpected power cycle
CCMPD02016557	R1.6	Network Manager	Cancelling a save does not cancel the save
CCMPD02016541	R1.6	XRC	Intermittent loss of Site connection
CCMPD02016438	R1.6	XRT	XRT Config Tool Connects but all tabs are grayed out
CCMPD02015954	R1.6	XRC	Using Network Manager to failover controller does not work
CCMPD02076651	R1.6	XRC	C3: 24871835 - Mitigation to resolve LRRP reports to not report on incorrect repeater slot.
CCMPD02080882	R1.7	XRC	C3: 24893867 - Resolves alert notification and use of encrypted email.
CCMPD02082807	R1.6	XRC	C3: 24917702 - Resolves upgrade issue due to OS issue propagated from 1.4B units. Allows upgrade / conversion to single FW file format from 1.6 to 1.7 and beyond.