



# **MOTOTRBO® System Release Notes Professional Commercial Radios (PCR) & Accessories**

## **North America Region**

**Version: R2.9.0  
Date: June 28, 2018**

## **MOTOTRBO June 2018 Software Release**

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## 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 Release

### Infrastructure features\* **NOW AVAILABLE!!**

~~\*Note: All the below infrastructure features and associated firmware files will be available at a later date. We apologize for any inconvenience this may cause.~~

#### Shared Frequency Control Channel

Modes: Capacity Max

Provides customers the ability to deploy a Capacity Max system with a dedicated control channel or a shared channel. This flexibility now provides additional choices to customers who don't have dedicated channels (FB8) available to them; including the benefits and advantages of moving into a Capacity Max system.

#### MOTOTRBO™ Link

Modes: IP Site Connect

The MOTOTRBO Link feature enables over-the-air backhaul via SLR repeaters in a multi-site IP Site Connect system. This functionality is useful in areas where no site link connectivity exists. To use MOTOTRBO Link, only SLR repeaters can be used in the IP Site Connect network and the backhaul chain.

#### Enhanced Telephony

Modes: Capacity Max

Increases interoperability by utilizing a DMR industry-standard signaling method for telephone patch calls. This allows customers on Capacity Max systems to make DMR industry-standard compliant radio to landline phone calls, in addition to receiving individual/group calls from a landline phone.

#### Priority Call

Modes: Capacity Max

Allows a Capacity Max user to escalate the priority of the initiating call. If an idle channel is not available at one or more associated sites, the high priority call can preempt and take over the trunk channels occupied by a Normal priority call. This feature supports the escalation of voice call, telephony call, remote monitor as well as data calls.

#### Talkgroup Subscription Option

Modes: Capacity Max

Provides an option to enable or disable Talkgroup Subscription in Capacity Max Open mode. This allows a dealer to turn off this feature on 3rd party systems that does not support this feature.

### **Enhanced Channel Change**

Modes: Single Site Conventional or IP Site Connect

Enables the ability to rapidly change from one channel to another (analog to analog only or digital to digital only) on a SLR repeater in a single site conventional or IP Site Connect system.

### **SLR 8000 Repeater- New Frequency Band – Available Q3, 2018\***

Modes: All

The SLR 8000 Repeater now supports the 800/900 MHz frequency band.

800 MHz: RX: 806–825 MHz and TX: 851–870 MHz (Option: CA03385AA - orderable now)

900 MHz: RX: 896–902 MHz and TX: 935–941 MHz (Option: CA03414AA - orderable now)

\*Shipments anticipated to start in mid-August.

## **Radio Features**

### **Certificate Based Wi-Fi Access**

Add WPA/WPA2 Enterprise Wi-Fi support for XPR 7000e, XPR 3000e, XPR 5000e and SL 7000e series. Using certificate managed access for Wi-Fi networks increases security and deployment of devices for Enterprise networks.

### **IP68 Remote Speaker Microphone**

A highly durable and water submersible RSM (Part # PMMN4099B) is now available for XPR 7000e series portables.

## 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 (incl SL Series) – XPR 7000/7000e, XPR 5000/5000e, XPR 3000/3000e, SL 7000/7000e, SL 3500e Subscriber – MOTOTRBO – SL300/CP200d/CM200d/CM300d, XPR 2500	<i>R02.09.00.0001 (CP R14.00.13)</i> <i>R02.09.01.0001 (CP R14.00.13) See note 1</i>  <i>R01.01.30.0000 (CP R11.00.46)</i>
Subscriber – MOTOTRBO - XPR 4000/6000	<i>R01.12.17</i>
Option Board – MOTOTRBO 2.0 (incl SL Series) – XPR 7000/7000e, XPR 5000/5000e, SL 7000/7000e	<i>R02.07.41 (CP 1.1.19)</i>
Option Board – MOTOTRBO – XPR 4000/6000	<i>R01.07.45 (CP 1.0.16)</i>
Repeater – XPR 8300/8400 Repeater – MTR 3000 Repeater – SLR 5700, SLR 8000, SLR 1000	<i>R02.09.003 (XPR/MTR)</i>  <i>R02.09.00.07 (SLR)</i>
XRC 9000 / 9100 Controller	<i>R02.90.00.0594_1556</i>
XRT 9000 / 9100 Gateway	<i>R02.90.00.0594_1556</i>
XRI 9100 Interconnect	<i>R02.90.00.0594</i>
Network Manager (merged with XRC / XRI packages)	<i>R02.90.00.0594</i>
Network Manager Connection Tool	<i>R02.90.00.0594</i>
XRT Configuration Tool	<i>R02.90.00.0594</i>
Capacity Max Bridge (CMB)	<i>R02.90.00.0594_936</i>
CPCPS	<i>R02.07.41</i>
Radio Management / CPS	<i>RM 2.11.44.0 / CPS V16.0 Build 823</i>
Tuner	<i>V161 Build 239</i>
RDAC	<i>V9.0 Build 106</i>
AirTracer	<i>V10.0 Build 32</i>
Device Discovery Mobility Service (DDMS)	<i>R03.80.5001</i>
Multi Channel Device Driver (MCDD)	<i>R2.1.3 (not changed in 2.8.5)</i>
MNIS Data Gateway	<i>R02.90.5002</i>
MNIS Voice and Radio Command (VRC) Gateway	<i>R02.90.5002</i>
MNIS Status Agent	<i>R02.90.5000</i>
Capacity Max ESU	<i>DESU-D14.03.77.01</i> <i>(DESU-PCR-02.09.03.77-01.iso)</i> <i>(Orderable via T8486A)</i>
Capacity Max Trunk Controller	<i>TC_R02.90.00.03</i> <i>(cmxtc-pcr-02.90.50.02-01.iso)</i>
Capacity Max System Advisor	<i>EUEM-02.09.00.71</i> <i>(UEM-PCR-02.09.00.71-00.iso)</i>
Capacity Max Software Upgrade Bundle	<i>CVN7210A.iso</i> <i>(This is required for 2.8 to 2.9 upgrade)</i> <i>(Orderable via T8480A)</i>
System Design Tools	<i>Version 06.08</i>

Note 1: Customers may receive after Aug. 02 2018 XPR 7000e series, XPR 5000e series, XPR 3000e series, SL 7000e series and SL 3500e units with software version **R02.09.01.0001** which has no impact to field radios vs software version **R02.09.00.0001**. The software version **R02.09.01.0001** was done to correct a factory automation issue.

3rd Party Applications	Version Supported in Release
GW3-TRBO	GW3-TRBO 3.2.15.4.72
Avtec VP Gate	4.6.11.11
Avtec Scout Console/Scout Manager	4.6.11.11
Avtec VPGate Advanced Radio Support w/Encryption	4.6.11.11
Avtec Data Management Services - Scout Central Distributor	4.6.11.11
SmartPTT PLUS	SmartPTT_PLUS - 9.3.24
TRBOnet PLUS	TRBOnet_Plus_5.3.0.1651

1. For Capacity Max, the ESU Launchpad Application shall be ordered via Model# T8486A in the order system.
2. The Capacity Max System Server One Click Upgrade which contains Trunk Controller, VRC Gateway and System Advisor shall be ordered via Model# T8480A in the order system.
  - a. Please refer to the section “Upgrading a *Capacity Max System from R2.8 to R2.9.0*” of Capacity Max System Release Upgrade Guide for additional details. It is available on MOL and the Upgrade Guide applies for the patch upgrade as well.
  - b. Both the ESU Launchpad application (T8486A) and Capacity Max System Server One Click Upgrade files (T8480A) are required to upgrade to R2.9 and are only available by order as they ship on physical media. As delivery can take up to a week from the time of order submission, it is highly recommended to plan ahead for your upgrade.
3. USB 3.0 port is not supported for the repeater upgrade. With R2.8.0 and newer repeater release, the recommendation is to use USB 2.0 port on the PC or connect repeater via USB 2.0 hub when upgrading via USB.

## Known Issues in Product Release

### Infrastructure Impact

<b>Issue Number:</b>	<b>MOTOTRBO_INFRA_FW-3472</b>
<b>System/Product:</b>	SLR Repeaters
<b>Description:</b>	In MOTOTRBO Link, some repeaters may incorrectly show as being offline in the SmartPTT and RDAC user interface intermittently. The status will correct itself within 1 to 10 minutes.
<b>Workarounds:</b>	None.
<b>Issue Number:</b>	<b>MOTOTRBO_INFRA_FW-3356</b>
<b>System/Product:</b>	SLR Repeaters
<b>Description:</b>	When a user has forgotten the password to authenticate with the repeater web server using a Firefox browser then the user needs to reset and create a new credential certificate by running a specific command. When the new credential certificate is generated, it is possible that the credential may be a duplicate to one that is stored on the repeater, this duplicate credential will cause a rejection in the web server connection to the repeater.
<b>Workarounds:</b>	Use Internet Explorer or Google Chrome.

### Radio, CPS/RM Impact

<b>Issue Number:</b>	<b>RMGMT-1975</b>
<b>System/Product:</b>	Repeater Diagnostics and Control (RDAC)
<b>Description:</b>	When clicking on the help button on the wizard of view features or register features, Error #1722 prompts that %1 does not exist. Please check the file name
<b>Workarounds:</b>	Open RDAC Online Help by pressing F1 or click on "Contents and Index"
<b>Issue Number:</b>	<b>DMGMT-1404</b>
<b>System/Product:</b>	Capacity Max and Radio Management
<b>Description:</b>	When the radio ID in the radio view is changed, you need to go to Actions > Manage > Capacity Max Server Data > SAC for SAC table to get the updated radio ID. Then CMSS needs to be programmed for the updated Radio ID in the SAC.
<b>Workarounds:</b>	None
<b>Issue Number:</b>	<b>CCMPD02140203</b>
<b>System/Product:</b>	MOTOTRBO XPR 7000/7000e, XPR 5000/5000e, SL 7000/7000e in Connect Plus mode
<b>Description:</b>	Registration popup frozen on Home screen when Silent or Silent with Voice Emergency Call or Emergency Voice is initiated right after switching to new channel. Display shows registration screen instead of TG screen. This will remain until PTT is pressed or Emergency call is complete. This only happens when a configured registration delay is present, or fringe area where registration is delayed upon channel change due to weak signal. This issue does not happen in Silent Emergency Alert.
<b>Workarounds:</b>	None
<b>Issue Number:</b>	<b>CCMPD02140295</b>
<b>System/Product:</b>	Radio Management - Configuration Mode
<b>Description:</b>	RM shows out-of-range error in the analyze window when running the analyze

with the newly added analog channel(s) on MTR3000 VHF repeater in RM config mode. It requires to update Tx and Rx frequency settings on the newly added analog channel(s) to the values within VHF range.

Workarounds: None.

**Issue Number:** PCR\_SUB 1518

System/Product: Capacity Max with Enhanced Telephony

Description: Cannot initiate a telephone call while in a group call.

Workarounds: None

**Issue Number:** PCR\_SUB-1007

System/Product: Bluetooth Enabled XPR 3000/7000, SL7000 series radios

Description: Radio prompt "Purchase Required" notice after pairing with a second Bluetooth device. The second device is of a type that initiates the pairing automatically.

Workarounds: Disconnect from existing Bluetooth accessories before trying to pair a second device. Once the pairing is completed you can switch between accessories with no issues.

**Issue Number:** CCMPD02038621

System/Product: Connect Plus/XPR 5000/5000e mobile

Description: Toggling the Horn and Lights setting via both Menu and Programmable Button will result in a mismatch of the status.

Workarounds: Use only a Programmable Button to toggle the Horn and Lights setting in Connect Plus mode.



## Resolved Issues in Product Release

Resolved issues are the known product problems that were reported in prior products releases.

Defect ID	Release Introduced	Product	Headline
MOTOTRBO_INFRA-1399	MOTOTRBO 2.7	MNIS Gateway	MNIS ignores voice client version check
CCMPD02138274	MOTOTRBO 2.7	MNIS Gateway	Capacity Plus - System Issue
CCMPD02127314	MOTOTRBO 2.8	MNIS Date GW	MNIS/tunnel installation issue.
CCMPD02128904 (MOTOTRBO_INFRA_FW-1808)	MOTOTRBO 2.7	Repeater	Single Site All Call in LCP mode for a certain site, all radios of the system receive that call
CCMPD02130310 (MOTOTRBO_INFRA_FW-1702)	MOTOTRBO 2.7	Repeater	TRBO 2.8.0 DPP Phone Call fail to end call in 1st attempt but success to end call in 2nd attempt
CCMPD02133221 (MOTOTRBO_INFRA_FW-1756)	MOTOTRBO 2.7	Repeater	Disconnecting USB cable from Abaco repeater while it is in site trunking causes reset
PCR_SUB-228	MOTOTRBO 2.5	XPR 7000e series XPR 7000 series	Faint 'white noise' is heard on the RLN6562A wireless RSM when used with XPR7000e series radios (propagated)
PCR_SUB-889	MOTOTRBO 2.3A	XPR 5550	XPR 5550 will not key during repeater hang time.
PCR_SUB-913	MOTOTRBO 2.9.0	XPR 7000e series XPR 5000e series	Fixed Privacy Key Decryption doesn't work with KMF
PCR_SUB-1849	MOTOTRBO 2.6.0	XPR 7000e series XPR 5000e series	Cap Max SU Forgets The Announced Sites After Power Cycle
PCR_SUB-2111	MOTOTRBO 2.8.0	XPR 7000e series XPR 5000e series	OTAP and "Ignore Rx Clear Voice/Package Data"
CCMPD02137114	MOTOTRBO 2.8.5	CP200d CM200d CM300d	Call ID screen will appear when PTT is pressed but before the radio has finished sending the PreTime
CCMPD02139650	MOTOTRBO 2.5	XPR 7000e series XPR 5000e series XPR 3000e series SL 7000e series SL3500e	When user performs a full codeplug OTAP upgrade via RM and request for commit and switchover together, then if the radio is power off within 10 minutes, the radio will not switchover to new software but RM will report the switchover is successful
CCMPD02105864	MOTOTRBO 2.0	XPR 7000e series XPR 5000e series XPR 3000e series SL 7000e series SL3500e	Pressing Cancel in the middle of switching Bluetooth headset may cause the Bluetooth menu display to lock up in rare occasion. Press PTT or change channel to recover.
CCMPD02131510	MOTOTRBO 2.8	XPR 7550e/7580e SL 7550e/7580e 7590e	Radio allows user to enter FPP Dealer Mode in a WAVE personality when it should not. There is no adverse impact if a user does enter but many of the parameters does not apply to WAVE.
Defect ID	Release Introduced	Product	Headline

CCMPD02142066	MOTOTRBO 2.8	CPS/RM	SL3500e cannot set one touch to home revert.
CCMPD02142726	MOTOTRBO 2.8	CPS/RM	CMSS 101003 error in RM
CCMPD02141472	MOTOTRBO 2.8	CPS/RM	CPS 15.5 - English and French version still show v15.0
CCMPD02138837	MOTOTRBO 2.8	CPS/RM	XPR7550 Digital Mic Gain menu option not working