



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

North America Region

**Version: R2.9.8
Date: December 18, 2018**

MOTOTRBO December 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

- A number of defect fixes for the CPS/RM build, CMSS Trunking Controller (TC) and repeaters. Please see the Resolved Issues Table for further details.

R2.9:

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 – Now Shipping!!

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)

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 8380/8400 Repeater – MTR 3000 Repeater – SLR 5700, SLR 8000, SLR 1000	<i>R02.09.00.13_R19.00.03 (XPR/MTR)</i> <i>R02.09.00.13_R06.00.11 (SLR Series)</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 2.11.50 / CPS V16.0 Build 828</i>
Tuner	<i>V16.1 Build 239</i>
RDAC	<i>V9.0 Build 106</i>
AirTracer	<i>V10.0 Build 32</i>
Device Discovery Mobility Service (DDMS)	<i>R03.90.5001</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-02.90.50.03-02.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.

New Release Highlighted in Red

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. As related to defect fix Infra FW-4028, if there is no idle TalkPath for a Capacity Max VRC Gateway, then a call request that requires a TalkPath will preempt an ongoing call if the user priority of the new call is higher than then the user priority of the ongoing call.
4. The R2.9.8 Trunk Controller update is available for download on MOL* for systems that are already on R2.9. If the CMSS is on prior versions, you *must* order the R2.9 upgrade first; see #1 and 2 above. (Order T8480A and T8486A).
 *MOL file-path is: *Software>Two-Way>MOTOTRBO>Capacity Max - Software, Firmware and Configuration Guides*
5. 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

Issue Number: MOTOTRBO_INFRA_FW-3472

System/Product: SLR Repeaters

Description: 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.

Workarounds: None.

Issue Number: MOTOTRBO_INFRA_FW-3356

System/Product: SLR Repeaters

Description: 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.

Workarounds: Use Internet Explorer or Google Chrome.

Issue Number: MOTOTRBO_INFRA_FW-3352

System/Product: SLR Repeaters

Description: When in MOTOTRBO Link mode and there is FCC type 1 interference on a link repeater and a voice call is initiated on a remote site, the drop repeater associated with the link repeater experiences the FCC type 1 interference then voice call is not received until FCC type 1 interference is removed.

Workarounds: None

Issue Number: MOTOTRBO_INFRA_FW-3336

System/Product: SLR Repeaters

Description: Garbled audio can be heard when Group call is initiated from the console and the call may end.

Workarounds: None

Issue Number: MOTOTRBO_INFRA_FW-3113

System/Product: SLR Repeaters

Description: Intermittent drop call may occur after a higher priority phone call ends then joins back to an ongoing radio call.

Workarounds: None

Radio, CPS/RM Impact

Issue Number: RMGMT-1975

System/Product: Repeater Diagnostics and Control (RDAC)

Description: 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

Workarounds: Open RDAC Online Help by pressing F1 or click on "Contents and Index"

Issue Number:	DMGMT-1404
System/Product:	Capacity Max and Radio Management
Description:	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.
Workarounds:	None
Issue Number:	CCMPD02140203
System/Product:	MOTOTRBO XPR 7000/7000e, XPR 5000/5000e, SL 7000/7000e in Connect Plus mode
Description:	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.
Workarounds:	None
Issue Number:	CCMPD02140295
System/Product:	Radio Management - Configuration Mode
Description:	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_FW-4060	MOTOTRBO 2.9	Repeater	The SLR 8000 may stop sending a CWID in Conventional mode or in an IP Site Connect system. C3: 26402589
MOTOTRBO_INFRA_FW-3564	MOTOTRBO 2.6	Repeater	The Repeater may stop forwarding data or voice traffic when there is a high GPS load and digital voting enabled and used in single repeater digital conventional mode or in an IP Site Connect system. C3: 26244676
MOTOTRBO_INFRA_FW-3473	MOTOTRBO 2.8	Repeater	Capacity Max Call Preemption does not work when Enhanced Privacy is enabled. C3: 26023325
MOTOTRBO_INFRA_FW-3633	MOTOTRBO 2.9	Repeater	Abaco fans falsely alarm intermittently. The fans remain operational during the alarm and alarms clear over time. C3: 26254483
MOTOTRBO_INFRA_FW-3587	MOTOTRBO 2.8	Repeater	Call Type field of RCM_Call_Transmission_Status is set to CONFIRMED_GROUP_DATA instead of GROUP_DATA for unconfirmed group data from SU.
MOTOTRBO_INFRA_FW-3548	MOTOTRBO 2.8	Repeater	In a Capacity Plus system, when a call initiated via digital voting repeater is distorted and may end immediately.
MOTOTRBO_INFRA_FW-3483	MOTOTRBO 2.8.5	Repeater	RCEM Call Sequence numbers do not appear to increment
MOTOTRBO_INFRA_FW-3856	MOTOTRBO 2.6	Repeater	SLR 5000 -Regional Communications INC_CWID not going out. C3: 26269889
MOTOTRBO_INFRA_FW-3214	MOTOTRBO 2.8	Repeater	TRBOnet Console displays "Equipment is not Connected" when the user PTT's. C3: 25894765
MOTOTRBO_INFRA_FW-3355	MOTOTRBO 2.6	Repeater	MTR3000_RCS_Cap Plus System not trunking. C3: 26117149
MOTOTRBO_INFRA_FW-3632	MOTOTRBO 2.7	Repeater	SLR 5000 backup DC power does not roll back to the low level setting. C3: 26260475
MOTOTRBO_INFRA_FW-3621	MOTOTRBO 2.8	Repeater	Unable to change channel from DMM mode using GPIOs in SLR 5000. C3: 26214449
MOTOTRBO_INFRA_FW-3349	MOTOTRBO 2.8	Repeater	MTR3000_is stuck in a constant state of reboot after writing freq into repeater. C3: 25947007
MOTOTRBO_INFRA_FW-3338	MOTOTRBO 2.8	Repeater	CPMS_Day Wireless_Repeater sends Map request periodically while disabled. C3: 26075011
MOTOTRBO_INFRA_FW-3172	MOTOTRBO 2.6	Repeater	Repeaters fail DHCP handshake. C3: 25709959-2
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.
MOTOTRBO_INFRA_FW-3634	MOTOTRBO 2.9	SLR Repeaters	SLR repeaters may become stuck in a continuous reset mode when a user intends to use a Capacity Plus system configuration but activates a MOTOTRBO Link license and configures the "Link Mode" or "IPSC BH site" parameters
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 2.7	Repeater	Disconnecting USB cable from Abaco repeater while it is in

(MOTOTRBO_INFRA_FW-1756)			site trunking causes reset
MOTOTRBO_INFRA_FW-1743 / CCMPD02135140C	MOTOTRBO 2.7	Repeater	XPR8400-SLR5700 does not pass TPL when set for CSQ
MOTOTRBO_INFRA_FW-2132 / CCMPD02139179	MOTOTRBO 2.7	Repeater	SLR 8000 Wireline Fails to Key intermittently after multiple attempts
MOTOTRBO_INFRA_FW-2155	MOTOTRBO 2.7	Repeater	S LR 5700 issued CSBK failed
MOTOTRBO_INFRA_FW-2248	MOTOTRBO 2.6	Repeater	DHCP Client - increase DHCP retries by 1
MOTOTRBO_INFRA_FW-2270 / CCMPD02138516	MOTOTRBO 2.8	Repeater	SLR 5700_Phantom Key Ups
MOTOTRBO_INFRA_FW-2295	MOTOTRBO 2.7	Repeater	SLR 8000 does not key up by the MC2500
MOTOTRBO_INFRA_FW-2326	MOTOTRBO 2.8	Repeater	SLR repeaters fail DHCP process due to the limit of DHCP Request messages
MOTOTRBO_INFRA_FW-2698	MOTOTRBO 2.8	Repeater	SLR 1000_RDAC causes repeater to reset when queried
MOTOTRBO_INFRA_FW-2742	MOTOTRBO 2.6	Repeater	25865729- XPR7000 transmit Interrupt can interrupt speech in repeater mode but shows channel busy
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/Packet 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.
C3: 26379534/26401654	MOTOTRBO R2.9.5	RM	Unable to use special characters such as “!” and underscore for Wi-Fi Password

C3: 26361570/26379926	MOTOTRBO R2.9	CPS	Unable to transmit audio when using pre-2.9 codeplug in CPS
C3: 26248302	N/A	RM	Support max of 160 channels in channel pool on R2.7.0 subscribers
C3: 26401618	R2.6	RM	Missed call with GPS enabled
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