

**MXP600**  
**MTP6000 Series**  
**MTP8000Ex Series**  
**ST7000 Series**  
**TPG2200**  
**MTM5000 Series**

## **TETRA Terminals Software Release Note**

### **MR2021.2 Software Release**

| <b>Terminal software</b>     | <b>Code plug</b> | <b>Firmware</b> |
|------------------------------|------------------|-----------------|
| <b>MXP600</b>                | 1274             | R55.XX0.9645    |
| <b>MTP6000 series</b>        | 1274             | R33.XX0.9645    |
| <b>MTP8000Ex series</b>      | 1274             | R36.XX0.9645    |
| <b>ST7000</b>                | 1274             | R37.XX0.9645    |
| <b>ST7500</b>                | 1274             | R37.XX0.9645    |
| <b>TPG2200</b>               | 1274             | R38.XX0.9645    |
| <b>MTM5000 - Transceiver</b> | 1274             | R27.XX0.9645    |
| <b>MTM5000 - Head</b>        | 7461             | R14. 000. 9645  |

**CPS Plus Release : R07.70.00.51\_PLATFORM\_P7.7**

**ITM Release : R07.70.00.41\_PLATFORM\_P7.7**

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#### **Change History**

| Rev | Date         | Author      | Description                  |
|-----|--------------|-------------|------------------------------|
| 0.1 | Jul 13, 2021 | Yang Lirong | MR2021.2 Release Notes Draft |
| 1.0 | Jul 22, 2021 | Yang Lirong | MR2021.2 Release Notes       |
|     |              |             |                              |

### Acronyms and Abbreviations

| Acronym         | Definition   |
|-----------------|--|
| AT              | Hayes Command set  |
| AuC             | Authentication Centre  |
| CMG             | Crypto Management Group  |
| CPS             | Customer Programming Software  |
| CR              | Change Request   |
| DGNA            | Dynamic Group Number Assignment  |
| DMO             | Direct Mode Operation  |
| E2EE            | End to End Encryption  |
| FDPC            | Full Duplex Private Call (ie a normal phone call to a TETRA Terminal)                        |
| FKP             | Full Keypad  |
| GPS / GNSS      | Global Positioning System / Global Navigation Satellite System                               |
| GCAI            | Global Core Accessory Interface  |
| GSSI            | Group Subscriber Identification (Talk Group)   |
| HDPC            | Half Duplex Private Call   |
| IOP             | Intra-Operability  |
| ISSI            | Individual Subscriber Identification   |
| KVL             | Key Variable Loader  |
| LIP             | Location Information Protocol  |
| LKP             | Limited Keypad   |
| Mic             | Microphone   |
| MMI             | Man to Machine Interface   |
| MR              | Mobile Release   |
| MS              | Mobile Station also known as 'Terminal'  |
| MSPD            | Multislot Packet Data  |
| NGCH            | Next Generation Control Head – used to control the Mobile transceiver                        |
| OTAR            | Over The Air Rekeying  |
| OTB             | One-Touch Button. Buttons 1 to 9, * and # can be configured in the CPS as One-Touch Buttons. |
| PD              | Packet Data  |
| PDU             | Protocol Data Unit   |
| PEI             | Peripheral Equipment Interface   |
| PHF             | Personal Hands-Free  |
| PIN             | Personal Identity Number   |
| PPC             | Pre-emptive Priority Call  |
| PSTN            | Public switched telephone network  |
| RSM             | Remote Speaker Microphone  |
| RUA/RUI         | Radio User Authentication (RUA) & Radio User Identity (RUI)                                  |
| SCK             | Static Cipher Key  |
| SDS             | Short Data Service   |
| SW              | Software   |
| SwMI            | Switching and Management Infrastructure  |
| TG              | Talkgroup  |
| TMO             | Trunked Mode Operation   |
| TXI             | Transmit Inhibit   |
| CRYPTR<br>micro | SD based Motorola crypto solution  |
| UCM-M           | Universal Crypto Module – Motorola Advanced Crypto Module                                    |

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## Introduction

The overall purpose of this document is to introduce the reader to the MR2021.2 Software release prior to operating TETRA terminals into which it has been installed. MR2021.2 will cover BDBOS certification for features introduced in last release MR2021.1.

The MR2021.2 Software release supports the following TETRA terminals.

| Terminal                            | 350-390 MHz    | 380-430 MHz | 410-470 MHz    | 806-870 MHz    |
|-------------------------------------|----------------|-------------|----------------|----------------|
| MTM5200                             | Yes            | Yes         | Yes            | Yes            |
| MTM5400                             | Yes            | Yes         | Yes            | Yes            |
| MTM5500                             | Not applicable | Yes         | Yes            | Yes            |
| MTM800FuG<br>(*BSI TEA2 only)       | Not applicable | Yes*        | Not applicable | Not applicable |
| MTM800FuG<br>ET<br>(*BSI TEA2 only) | Not applicable | Yes*        | Not applicable | Not applicable |

| Terminal  | 350-430 MHz    | 350-470 MHz | 806-870 MHz    |
|-----------|----------------|-------------|----------------|
| MXP600    | Not Applicable | Yes         | Not Applicable |
| MTP8550Ex | Not applicable | Yes         | Yes            |
| MTP8500Ex | Not applicable | Yes         | Yes            |
| MTP6650   | Not Applicable | Yes         | Not Applicable |

| Terminal | 380-430 MHz | 806-870 MHz    |
|----------|-------------|----------------|
| ST7000   | Yes         | Yes            |
| ST7500   | Yes         | Not applicable |

| Terminal | 380-410 MHz | 400-430 MHz |
|----------|-------------|-------------|
| TPG2200  | Yes         | Yes         |

This document outlines the key functionality delivered with the MR2021.2 Software release. For more detailed descriptions of the TETRA terminals, please refer to:

[https://www.motorolasolutions.com/en\\_xu/products/tetra.html](https://www.motorolasolutions.com/en_xu/products/tetra.html)

**Previous Customer Release Notes** are also available from Motorola online, or through your usual Motorola channel partner account manager.

**MR2021.2 Customer Release Training** is also available online using course code DMT0061 – TETRA MR2021.2 New Features Training.

<https://learning.motorolasolutions.com/online/>

**MXP600 Software Package Reference Guide** (MN007870A01-AA) which provides quick references to MXP600 SW package setting is available on Motorola Learning Experience Portal.

<https://learning.motorolasolutions.com/online/>

# 1. Benefits

## 1.1. New Features

For a full description refer to the Feature User Guide which can be found at <http://learning.motorolasolutions.com> by searching for the appropriate device.

MR2021.2 Software is introduced alongside the new 7.7 version of CPS<sup>Plus</sup> and iTM. For further information on these refer to <http://learning.motorolasolutions.com> by searching TETRA Terminals/Integrated Terminal Management and CPS Plus 7.7 and iTM respectively. Please take note that 7.7 version of CPS<sup>Plus</sup> and iTM are required for MR2021.2.

The MR2021.2 Software Features are as follows.

| Feature   | Summarised Description   | Enablement Needed | Platforms Affected   |
|---|--|-------------------|--|
| MXP600 End of life parts refresh  | New Tanapas have been introduced to reflect the End of life parts refreshing. The tanapa numbers are listed in Section 2.1 Sales Models. Please take note that all refreshed tanapas must use MR2021.2 onwards. All hardwares will be released separately at a later date after MR2021.2. Please refer to Hardware release for the ordering readiness. | No                | MXP600   |
| Sectra RTC support  | To provide backup power to maintain Real Time Clock functionality when radio battery is removed for SECTRA requirement   | No                | MXP600 (Sectra SIM Model only)                               |
| ST7500/ST7000 Messaging Editor MMI Enhancement for Interaction with High Priority Calls | To support MMI Enhancement on the Messaging Editor when receiving High Priority Calls  | No                | ST7000, ST7500   |
| ST7000 and ST7500: Expanded one-touch function  | To support new functionality to access Predefined Messaging menu via OTB   | No                | ST7000, ST7500   |
| Add/Delete Talkgroup in Favourite Talkgroup list of ST7500 from radio MMI Enhancement   | To support the ability to add or delete talkgroup into radio Favorite Folder/extended folders via MMI  | No                | ST7000, ST7500   |
| MXP600 - New BT RSM Support   | To support WM500 Wireless RSM via extended AT command.   | No                | MXP600   |
| Pager Alus OTA Support  | To support SDS OTAP for Pager  | Yes               | TPG2200  |
| Pager Non ALUS-OTA related features   | To support Non ALUS OTA features for Pager   | No                | TPG2200  |
| ISSI Range required for Call Out Calling Party Parameter for Pager                      | To expand the Calling Party 16 ISSI Entries to 200 Entries   | No                | TPG2200  |
| Severity string configuration for Pager   | To support configuration of "Severity" string option in radio  | No                | TPG2200  |
| Correct handling of Release cause for BIC/BOC   | To support proper display notification on radio MMI on the release cause for BIC/BOC   | No                | MTP6650, MTM5000, MTM800Fug, MTP8000, ST7000, ST7500, MXP600 |

**MR2021.2 Software Release Note**

|   |   |    |   |
|---|---|----|---|
| Alarm trigger for each (GSSI + sub-address) pair                      | To support the alarm trigger assigned to each of the respective (GSSI + sub-address) pairs as part of BDBOS 2019 Call Out Sub-Address test cases. | No | MTP6650, MTM5000, MTM800Fug, MTP8000, ST7000, ST7500, MXP600          |
| Filtering of identical SDS messages - available in CP User mode       | To support user mode configurable timer in CPS for Filtering of Identical SDS Status Messages   | No | MTP6650, MTM5000, MTM800Fug, MTP8000, ST7000, ST7500, TPG2200, MXP600 |
| Keep HotMic function running after PTT has been pressed               | To support continuous HotMic operation even after PTT event has been triggered  | No | MTP6650, MTM5000, MTM800Fug, MTP8000, ST7000, ST7500, MXP600          |
| Support MXP600 car cradle with new RF connector                       | To support RF/system level test with the new RF connector for MXP600 cradle PMLN8306A.  | No | MXP600  |
| Add support for cross model copy for MTM5000 and control-head refresh | Add support for cross-model template usage for MTM Series Refresh and CH excluding cross model copy between types (e.g. serial to ethernet).      | No | MTM5000, MTM800FUG  |

## 1.2. Changes / Improvements

Changes / improvements have also been included within this MR2021.2 Software Release:

| Change / Improvement                           | Summarised Description  |
|--|---|
| TPG2200 not issuing an Alarm Inbox             | The TPG2200 would occasionally lose a CallOut message when operating in EG5 mode. Only relevant for Airbus infrastructure and usage of EG5.   |
| Tone notification when losing connection to GW | In MR2020.1 the "Low RSSI warning" feature during GW and Repeater operation was removed causing an inconsistency with the MR19/MR19.2 implementation.   |
| MTP6650 - Vibration settings are not applied   | If the user de-select the Custom menu in the "Setup->Vibrate" menu and then if the user selects "Vibe Only" or "Vibe then Ring" then the radio will ring only, like if "Ring Only" had been selected in the Setup->Vibrate menu |
| MR19 handover problems                         | An ongoing call will not be restored by the radio after cell reselection on Hytera DIB 500 Compact infrastructure.  |

## 1.3. Software Ordering Option (Terminals)

Terminal Software selection:

### Europe Middle East and Africa

#### Device Software Release Options

GA01783AA - ADD: MR2021.2 SOFTWARE

### Asia Pacific, Latin America and North America

#### Device Software Release Options

QA08601AA - ADD: MR2021.2 SOFTWARE

## 1.4. Software Release Pack DVD Ordering Details

DVDs (Regional specific differences included below)

### Europe Middle East and Africa

#### Software Release Pack DVDs

GMYN5070A - MR2021.2 CLR SOFTWARE

GMYN5071A - MR2021.2 TEA1 SOFTWARE

GMYN5072A - MR2021.2 TEA2 SOFTWARE

GMYN5073A - MR2021.2 TEA3 SOFTWARE

GMYN5074A - MR2021.2 TEA2 BSI SOFTWARE

**Release Pack Electronic Download**

HKVN4896A - MR2021.2 CLR SOFTWARE  
HKVN4897A - MR2021.2 TEA1 SOFTWARE  
HKVN4898A - MR2021.2 TEA2 SOFTWARE  
HKVN4899A - MR2021.2 TEA3 SOFTWARE

**iTM/CPS DVDs**

GMYN5060A - ITM ONE AND CPS SOFTWARE DVD R7.7  
GMYN5061A - ITM ENTERPRISE AND CPS SOFTWARE DVD R7.7  
GMYN5062A - CPS SOFTWARE DVD R7.7

**Added Device Software Licenses(TPG2200 only)**

QA08599AA - ENABLE OTA PAGER CONFIGURATION  
HKVN4891A - ENABLE OTA PAGER CONFIGURATION  
QA08600AA - ADD: SITE-WIDE OTA PAGER CONFIGURATION

**Asia Pacific, Latin America and North America****Software Release Pack DVDs**

GMYN5070A - MR2021.1 CLR software  
GMYN5071A - MR2021.1 TEA1 software  
GMYN5073A - MR2021.1 TEA3 software

**iTM/CPS DVDs**

GMYN5060A - ITM ONE AND CPS SOFTWARE DVD R7.7  
GMYN5061A - ITM ENTERPRISE AND CPS SOFTWARE DVD R7.7  
GMYN5062A - CPS SOFTWARE DVD R7.7

**Aftermarket Software Features - Added iTM/CPS Software Feature Licenses**

HKVN4896A - MR2021.2 CLR SOFTWARE  
HKVN4897A - MR2021.2 TEA1 SOFTWARE  
HKVN4899A - MR2021.2 TEA3 SOFTWARE

## 1.5. CPS 7.7 Upgrade / Downgrade

Direct Firmware Upgrade / Downgrade is validated between current release MR2021.2 and 3 years backdated major release MR17. Releases prior to MR17 are recommended to be Upgraded / Downgraded to current release MR2021.2 via multi-step upgrade/downgrade paths. Eg, it is recommended to upgrade MR15 to MR17 first, and then to MR2021.2.

### Upgrades

CPS 7.7 Plus supports Upgrade from the following releases.

| Mobile Platform          | Software Releases  |
|--------------------------|--|
| MTM5200 legacy (800MHz)  | MR2021.1, MR19.2, MR19, MR18.5, MR18a, MR18, MR17.3, MR17        |
| MTM5400 legacy (800MHz)  | MR2021.1, MR19.2, MR19, MR18.5, MR18b, MR18a, MR18, MR17.3, MR17 |
| MTM5500 legacy (800MHz)  | MR2021.1, MR19.2, MR19, MR18.5, MR18b, MR18a, MR18, MR17.3, MR17 |
| MTM5200 legacy (UHF)     | MR2021.1, MR19.2, MR19, MR18a, MR18, MR17.3, MR17                |
| MTM5400 legacy (UHF)     | MR2021.1, MR19.2, MR19, MR18b, MR18a, MR18, MR17.3, MR17         |
| MTM5500 legacy (UHF)     | MR2021.1, MR19.2, MR19, MR18b, MR18a, MR18, MR17.3, MR17         |
| MTM5200 refresh (800MHz) | MR2021.1, MR19.2, MR19, MR18.5                                   |
| MTM5400 refresh (800MHz) | MR2021.1, MR19.2, MR19, MR18.5                                   |
| MTM5500 refresh (800MHz) | MR2021.1, MR19.2, MR19, MR18.5                                   |
| MTM5200 refresh (UHF)    | MR2021.1, MR19.2.  |
| MTM5400 refresh (UHF)    | MR2021.1, MR19.2.  |
| MTM5500 refresh (UHF)    | MR2021.1, MR19.2.  |
| MTM800FuG refresh        | MR19.2.  |
| MTM800FuG ET refresh     | MR19.2.  |

| Portable Platform | Software Releases   |
|-------------------|---|
| MXP600            | MR2021.1, MR2020.1.   |
| MTP6650 Rev B     | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| MTP6650 Rev A     | MR2021.1, MR19, MR18a, MR18, MR17                           |
| MTP8500Ex         | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| MTP8550Ex         | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| ST7000            | MR2021.1, MR2020.3, MR19, MR18.5, MR18a, MR18, MR17.3, MR17 |
| ST7500            | MR2021.1, MR2020.3, MR19, MR18.5, MR18a, MR18, MR17.3       |
| TPG2200           | MR2021.1, MR2020.2, MR19, MR18a, MR18, MR17.3, MR17.2, MR17 |

**Downgrades**

Downgrades are possible to the releases shown below but only the sensitive data (including tuning data) is maintained during the downgrading. If you want to roll back a radio to a previous version, the correct way is first to backup the Codeplug to be used, then downgrade to the version required, then to use the 'Restore Radio' function, which directly uses the previously backed up codeplug.

| <b>Mobile Platform</b>          | <b>Software Releases</b>  |
|---------------------------------|---|
| <b>MTM5200 legacy (800MHz)</b>  | MR2021.1, MR19.2, MR19, MR18.5, MR18a, MR18, MR17.3, MR17           |
| <b>MTM5400 legacy (800MHz)</b>  | MR2021.1, MR19.2, MR19, MR18.5, MR18b, MR18a, MR18, MR17.3, MR17    |
| <b>MTM5500* legacy (800MHz)</b> | MR2021.1, MR19.2, MR19, MR18.5, MR18b, MR18a, MR18, MR17.3, MR17    |
| <b>MTM5200 legacy (UHF)</b>     | MR2021.1, MR19.2, MR19, MR18a, MR18, MR17.3, MR17                   |
| <b>MTM5400 legacy (UHF)</b>     | MR2021.1, MR19.2, MR19, MR18b, MR18a, MR18, MR17.3, MR17            |
| <b>MTM5500 legacy (UHF)</b>     | MR2021.1, MR19.2, MR19, MR18b, MR18a, MR18, MR17.3, MR17            |
| <b>MTM5200 refresh (800MHz)</b> | MR2021.1, MR19.2, MR19, MR18.5                                      |
| <b>MTM5400 refresh (800MHz)</b> | MR2021.1, MR19.2, MR19, MR18.5                                      |
| <b>MTM5500 refresh (800MHz)</b> | MR2021.1, MR19.2, MR19, MR18.5                                      |
| <b>MTM5200 refresh (UHF)</b>    | MR2021.1, MR19.2.   |
| <b>MTM5400 refresh (UHF)</b>    | MR2021.1, MR19.2.   |
| <b>MTM5500 refresh (UHF)</b>    | MR2021.1, MR19.2.   |
| <b>MTM800FuG refresh</b>        | MR19.2 is the first release. Can not be downgraded to old releases. |
| <b>MTM800FuG ET refresh</b>     | MR19.2 is the first release. Can not be downgraded to old releases. |

| <b>Portable Platform</b> | <b>Software Releases</b>                                    |
|--------------------------|---|
| <b>MXP600</b>            | MR2021.1, MR2020.1.   |
| <b>MTP6650 Rev B</b>     | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| <b>MTP6650 Rev A</b>     | MR2021.1, MR19, MR18a, MR18, MR17                           |
| <b>MTP8500Ex</b>         | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| <b>MTP8550Ex</b>         | MR2021.1, MR19, MR18a, MR18, MR17.3, MR17                   |
| <b>ST7000</b>            | MR2021.1, MR2020.3, MR19, MR18.5, MR18a, MR18, MR17.3, MR17 |
| <b>ST7500</b>            | MR2021.1, MR2020.3, MR19, MR18.5, MR18a, MR18, MR17.3       |
| <b>TPG2200</b>           | MR2021.1, MR2020.2, MR19, MR18a, MR18, MR17.3, MR17.2, MR17 |

Downgrade will only keep the tuning data and reset all other codeplug fields back to default. This functionality may be used ONLY on new radios from the factory. For rollback a radio to a previous version the "Tools->Restore Radio" shall be used instead of the downgrade. For how to use the Restore Radio, please refer to the CPS Online help.

## 2. Product and Release Information

This software release MR2021.1 is for use as described in the introduction above and as detailed in the various sections.

### 2.1. Sales Models

There are new sales models\* introduced in MR2021.2.

*\*Note: All hardwares will be released separately at a later date after MR2021.2. Please refer to Hardware release for the ordering readiness.*

#### **Europe Middle East and Africa:**

MDH77PCN6TZ5ANSP02 MXP600 SECTRA 350-470MHZ PTW952HEB  
MDH77PCN6TZ5ANSP03 MXP600 BSI 350-470 BOS BW PTW952HEB  
MDH77PCN6TZ5ANSP04 MXP600 BSI 350-470 BOS BW PTW952HEB PACKAGE  
MDH77PCN6TZ5ANSP05 MXP600 BSI 350-470 BW PTW952HEB GREEN  
MDH77PCN6TZ5ANSP06 MXP600 BSI 350-470 BW PTW952HEB GREEN PACKAGE

MXP600 introduces the following new refresh tanapas\* to address the components' end of life. Features and performance remain the same from the shipping models. Please take note that the refreshed version must use release MR2021.2 and above.

*\*Note: All hardwares will be released separately at a later date after MR2021.2. Please refer to Hardware release for the ordering readiness.*

#### **Europe Middle East and Africa:**

PMUE5551B MXP600 350-470 ROM CLR  
GMUE0008B MXP600 350-470 ROM TEA2  
GMUE0010B MXP600 350-470 ROM AES 128 TEA2  
GMUE0011B MXP600 350-470 ROM AES 256 TEA2  
GMUE5553B MXP600 350-470 ROM TEA1  
GMUE5554B MXP600 350-470 ROM TEA3  
GMUE5555B MXP600 350-470 ROM AES 128 CLR  
GMUE5556B MXP600 350-470 ROM AES 128 TEA1  
GMUE5557B MXP600 350-470 ROM AES 128 TEA3  
GMUE5558B MXP600 350-470 ROM AES 256 CLR  
GMUE5559B MXP600 350-470 ROM AES 256 TEA1  
GMUE5560B MXP600 350-470 ROM AES 256 TEA3  
PMUE5561B MXP600 350-470 CYR CLR  
GMUE5562B MXP600 350-470 CYR TEA1  
GMUE5563B MXP600 350-470 CYR TEA3  
PMUE5570B MXP600 350-470 ARB CLR  
GMUE5571B MXP600 350-470 ARB TEA1  
GMUE5572B MXP600 350-470 ARB TEA3  
GMUE5573B MXP600 350-470 ARB AES 128 CLR  
GMUE5574B MXP600 350-470 ARB AES 128 TEA1  
GMUE5575B MXP600 350-470 ARB AES 128 TEA3  
GMUE5576B MXP600 350-470 ARB AES 256 CLR  
GMUE5577B MXP600 350-470 ARB AES 256 TEA1  
GMUE5578B MXP600 350-470 ARB AES 256 TEA3  
PMUE5579B MXP600 350-470 HEB CLR  
GMUE5580B MXP600 350-470 HEB TEA1  
GMUE5581B MXP600 350-470 HEB AES 128 CLR  
GMUE5582B MXP600 350-470 HEB AES 128 TEA1  
GMUE5583B MXP600 350-470 HEB AES 256 CLR

GMUE5584B MXP600 350-470 HEB AES 256 TEA1  
PMUE5552B MXP600 BSI 350-470 ROM CLR  
GMUE0009B MXP600 350-470 ROM TEA2 BSI  
PMUE5763B MXP600 SECTRA 350-470 ROM CLR  
GMUE5585B MXP600 SECTRA 350-470 ROM TEA2  
PMUE5764B MXP600 BSI GREEN 350-470 ROM CLR  
GMUE5728B MXP600 350-470 ROM TEA2 BSI  
GMUE5729B MXP600 350-470 ROM TEA2 BSI GREEN  
GMUE5730B MXP600 350-470 ROM TEA2 BSI GREEN  
GMUE5731B MXP600 350-470 ROM TEA2 BSI BOS BW

**APAC/LACR and China:**

PMUE5551B - MXP600 350-470 ROM CLR  
PMUE5553B - MXP600 350-470 ROM TEA1  
PMUE5554B - MXP600 350-470 ROM TEA3  
PMUE5555B - MXP600 350-470 ROM AES 128 CLR  
PMUE5556B - MXP600 350-470 ROM AES 128 TEA1  
PMUE5557B - MXP600 350-470 ROM AES 128 TEA3  
PMUE5558B - MXP600 350-470 ROM AES 256 CLR  
PMUE5559B - MXP600 350-470 ROM AES 256 TEA1  
PMUE5560B - MXP600 350-470 ROM AES 256 TEA3  
PMUE5570B - MXP600 350-470 ARB CLR  
PMUE5571B - MXP600 350-470 ARB TEA1  
PMUE5572B - MXP600 350-470 ARB TEA3  
PMUE5573B - MXP600 350-470 ARB AES 128 CLR  
PMUE5574B - MXP600 350-470 ARB AES 128 TEA1  
PMUE5575B - MXP600 350-470 ARB AES 128 TEA3  
PMUE5576B - MXP600 350-470 ARB AES 256 CLR  
PMUE5577B - MXP600 350-470 ARB AES 256 TEA1  
PMUE5578B - MXP600 350-470 ARB AES 256 TEA3  
PMUE5585B - MXP600 350-470 TAI CLR  
PMUE5586B - MXP600 350-470 TAI TEA1  
PMUE5594B - MXP600 350-470 CHI CLR  
PMUE5595B - MXP600 350-470 CHI TEA1  
PMUE5596B - MXP600 350-470 CHI TEA3  
PMUE5597B - MXP600 350-470 CHI AES 128 CLR  
PMUE5598B - MXP600 350-470 CHI AES 128 TEA1  
PMUE5599B - MXP600 350-470 CHI AES 128 TEA3  
PMUE5603B - MXP600 350-470 JAP CLR  
PMUE5604B - MXP600 350-470 JAP TEA1  
PMUE5605B - MXP600 350-470 KOR CLR  
PMUE5606B - MXP600 350-470 KOR TEA1

## 2.2. Product Details

The following terminals with the following encryption possibilities are supported by MR2021.2.

| Radio Models | Encryption |       |       |       |       |       |       |       |              |       |       |       |       |       |
|--------------|------------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|
|              | E2EE       | Clear |       |       |       | UCM-M |       |       | CRYPTR micro |       |       |       | BSI   |       |
|              | AIE        | Clear | TEA 1 | TEA 2 | TEA 3 | Clear | TEA 1 | TEA 2 | TEA 3        | Clear | TEA 1 | TEA 2 | TEA 3 | TEA 2 |
| MXP600       |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| MTP6650      |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| ST7000       |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| ST7500       |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| MTP8500Ex    |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| MTP8550Ex    |            | x     | x     | x     | x     |       |       |       |              | x     | x     | x     | x     | x     |
| TPG2200      |            | x     | x     | x     | x     |       |       |       |              |       |       |       |       | x     |
| MTM5200      |            | x     | x     | x     | x     | x     | x     | x     | x            |       |       |       |       |       |
| MTM5400      |            | x     | x     | x     | x     | x     | x     | x     | x            |       |       |       |       |       |
| MTM5500      |            | x     | x     | x     | x     | x     | x     | x     | x            |       |       |       |       |       |
| MTM800FuG    |            |       |       |       |       |       |       |       |              |       |       |       |       | x     |
| MTM800FuG ET |            |       |       |       |       |       |       |       |              |       |       |       |       | x     |

## 2.3. Software improvements included in the MR2021.2 SW

A range of lower level improvements requested and identified in previous releases are included in the MR2021.2 Software Release, the cross referenced listings are maintained by the Customer Support Team and are available on request.

## 2.4. Limitations to use

A small number of open minor operational behaviour actions remain in the MR2021.2 Software Release, the cross referenced listings are maintained by the Customer Support Team and are available on request, this is consistent with the extensive stress testing performed on all releases that go beyond normal operational activity.

| Headline   | Remarks/Description  |
|--|--|
| MXP600 power cycle after connect with Garmin HRS | <p><b>Impact: Medium</b>, Radio cannot connect to Garmin HRS. User needs to disconnect the sensor and reinitiate pairing.</p> <p><b>Workaround/Avoidance:</b> if one sensor can connect, and then second sensor can't connect, suggest to reverse the sequence and retry the connection</p> <p><b>Recovery:</b> Disconnect sensor. Connect Garmin HRS first, followed by a sensor.</p> |

|  |  |
|--|--|
| WIFI OTAP Issue when User Defined Language is part of the OTAP setting | <p><b>Impact: Medium</b>, Radio will remain in “flashing mode” screen after applying the WIFI OTAP operation, only happens if User Defined Language is part of the OTAP setting.</p> <p><b>Workaround/Avoidance:</b> Update all instances of iTM JP to version R07.70.02.52. (Detailed steps in MTN)</p> <p><b>Recovery:</b> Recover radio using iTM, requires wired connection. (Detailed steps in MTN)</p> |
|--|--|

## 2.5. Motorola Technical Notifications (MTNs)

MTNs provide important updates on Motorola products, including upgrades, options and revisions, as well as alerts to potential problems and workarounds.

To gain access to the MTNs please visit:-

[https://eumeainfo.motorolasolutions.com/technical\\_notifications\\_emea](https://eumeainfo.motorolasolutions.com/technical_notifications_emea)

## 2.6. User manuals

User guides may be found at <http://learning.motorolasolutions.com>

## 2.7. Features removed in this Release

None.

# 3. ACCESSORIES

Following new accessories are certified with MR2021.2 release. Only accessories which have software impacts are listed below.

|            | Part numbers | Accessories                    | Supported Radio Models |
|------------|--------------|--------------------------------|------------------------|
| <b>RSM</b> | PMMN4127A    | WM500 Bluetooth RSM for MXP600 | MPX600                 |

## 4. Annex - System Version

The TETRA terminals with MR2021.2 Software were tested using the following infrastructure:

### 4.1. Dimetra 9.0.2

| SwMI<br>SR 9.0.2 | SW | Version |                  |
|------------------|----|---------|------------------|
|                  |    | NM      | 90.2.291         |
|                  |    | ATR/STM | DSTM-09.00.02.36 |
|                  |    | ZC      | R09.00.02.56     |
|                  |    | NMT     | D90.2.291        |
|                  |    | PDR     | R09.00.02.37     |
|                  |    | SDR     | R09.00.02.33     |
| SC               |    |         | R09.40.26        |
| BRC              |    |         | R09.20.33 (TEA2) |

| AIE       | Component | Version      |
|-----------|-----------|--------------|
| PrC       | App       | R09.00.00.12 |
|           | Database  | R09.00.00.12 |
| AuC       | App       | R09.00.00.12 |
|           | Database  | R09.00.00.12 |
| CryptR II |           | R01.01.04    |
| KVL       | SW        | R2.0.2000.58 |

## 4.2. Cassidian 7.0

| SwMI<br>Cassidian Tetra System Rel. 7.0 |  | Version          |
|---|--|------------------|
| DXT                                     | Digital Exchange for TETRA                       | WF2W70CD05K      |
| DXTT                                    | Digital Exchange Transit for TETRA               | 1F2W70CD05K      |
| AKDC                                    | Authentication Key Distribution Center           | V 6.0.2          |
| BTS                                     | TETRA Basisstation                               | 13.7-2           |
| DWS                                     | Dispatcher Work Station                          | TSR7.0 DC CD5.2  |
| CDD                                     | TETRA Configuration and Data Distribution Server | TSR7.0 CDD CD5.3 |
| TCS                                     | Tetra Connectivity Server                        | TSR7.0 DC CD5.2  |

## 5. Annex – Authenticated AT Commands

There is no new AT CMD added/modified in MR2021.2.