

MTP850, MTP850Ex, MTP810Ex, MTP850S, MTP850FuG, MTP830S, MTP830FuG MTP830, CEP400, MTH800 and TCR1000

Also improvements for MTM800 and MTM800E **TETRA Terminals**

MR5.14.10 Software Release



Firmware & Codeplug Versions

Terminal	Freq. MHz	Build	Firmware	Codeplug
MTP850, MTP850S/FuG, MTP830S/FuG MTP830/CEP400	380	Feature	R13.XX0.8624	CP7492
MTP850, MTP830/CEP400	800	Feature	R10.XX0. 8624	CP7492
MTH800	380	Feature	R07.XX0. 8624	CP7492
MTP850Ex/MTP810Ex	380	Feature	R15.XX0. 8624	CP7492
MTP850Ex/MTP810Ex	800	Feature	R26.XX0. 8624	CP7492
MTM800:	All	Service	R08.XX0. 8480	CP 7379
MTM800E:	All	Service	R17.XX0. 8483	CP 7472
			R17.XX0. 8491	
NGCH for MTM800E	-	Service	R14.000. 8483	CP 6977
			R14.000.8491	
TCR1000	380	Feature	R16.XX0. 8624	CP7492

Release Packets (.rpk): Feature Build FW8624_R06106300 FW8480 FW8483 R06106300

CPS Plus Release : 6.2 UCM Version: R02.12.09

CPS Plus: R06.20.09.00

Document Rev.: C

Compass Locations (internal to Motorola Solutions): http://compass.mot-solutions.com/go/467269586 (pdf)

MOL Locations: https://emeaonline.motorolasolutions.com/Member/ContentManagement/resourcecenter.asp



Change History

Rev	Date	Author	Description
Od5	11Mar14	J Callaway	Further corrections
0	17Mar14	J Callaway	Released without change
Α	03 Apr14	J Callaway	C3 Case details added to table 2.5.1 and 2.5.2
В	09Apr14	J Callaway	Annex 12 Announcement added
С	22 July 14	G Loughrey	Updated to add Point Release for MTM800E relating to exception fix.

APME Asia Pacific Middle East Region AT Hayes Command set AuC Authentication Centre BoPoMoFo BoPoMoFo - a common way to type traditional Chinese characters into a computer keyboard, and is used to look up words in dictionaries officially adopted in 1913. CMG Crypto Management Group CPS Customer Programming Software CR Change Request DGNA Dynamic Group Number Assignment E2EE End to End Encryption E1A Europe, Israel and Africa FDPC Full Duplex Private Call (ie a normal phone call to a TETRA Terminal) FKP Full Keypad 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 Station also known as "Terminal" MSPD Muttisol Packet Data NGCH Next Generation Control Head – used to control the MTM800E transceiver OTAR Over The Air Rekeying OTB Private Interface PHF Personal Hands-Free PHP Personal Hands-Free PHF Personal Hands-Free PHF Personal Hands-Free PHF Personal Hands-Free PHF Personal Hands-Free PHP Personal Hands-Free PHP Pre-mprive Priority Call RUA/RUI Radio User Authentication (RUA) & Radio User Identity (RUI) SCK Static Cipyto Module Universal Crypto Module — Motorola Advanced Crypto Engine (MACE)		Acronyms and Abbreviations
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UCM Universal Crypto Module		



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Introduction

The overall purpose of this document is to introduce the reader to the MR5.14.10 software release prior to operating TETRA terminals into which this Software has been installed.

With the release of MR5.14.10 Motorola Solutions have reached an important milestone, this release should be considered as the last planned Feature (LFB) and Service (LSB) build for a range of models; the table below details these models (refer to Section 2.17 and 2.18 below for further details on ongoing Software Support for these models).

Terminal	Support	Last Planned Feature Build	Last Planned Service Build	Comments
MTHOOO	✓	(LFB)	(LSB)	
MTH800	V	∨	∨	
MTP850	∨	∨	∨	
MTP850 IP54			•	
MTP850 IP55	✓	✓	✓	di
MTP850 3L IP54	✓	*	*	* Feature builds will continue for TEA2 BSI SIM model beyond MR5.14.10
MTP850 3L IP55	✓	✓	✓	
MTP850 S	✓	✓	✓	
MTP850 FuG	√	×	×	* Feature and Service builds will continue beyond MR5.14.10
MTP850 Ex	✓	✓	✓	
non-E2EE				
MTP810 Ex	✓	✓	✓	
MTP810/850 Ex BSI	√	*	*	* Feature builds will continue for TEA2 BSI SIM model beyond MR5.14.10
MTP830 S	✓	✓	✓	•
MTP830 FuG	√	×	×	* Feature and Service builds will continue beyond MR5.14.10
MTP830	✓	✓	✓	
CEP400	✓	✓	✓	
TCR1000	✓	✓	✓	
MTM800	✓	✓	✓	
MTM800 E	✓	✓	✓	
TOM100	‡	‡	√	[‡] This release provides CPS Plus support but there are no changes to the existing product software.

This document outlines the key functionality with the MR5.14.10 software release. For more detailed descriptions of the TETRA terminal, please refer to previous Customer Release Notes and user documents; these are available from Motorola's customer portal:

Motorola Online https://emeaonline.motorola.com (accessible for Motorola Partners), or through your usual Motorola channel partner account manager.

Follow on Service Builds for MR5.14.10 ;-

Follow on Release	Models	Comments
MR5.14.10A	MTP850Ex and MTP810Ex	380MHz variants only. Customer Specific
MR5.14.10B	TBA	Customer Specific TBA at future date
MR5.14.10C	MTM800E	All Bands, fix for C3 23974240 (CR 20876 /also SS3899), SR CCMPD01911906

Please refer to individual Release Notes for these Follow on Software releases.



1 Benefits

1.1 New Features

The MR5.14.10 Software release is limited only to operate the TETRA Terminal platforms listed in the table above; new features are listed in the table below and are applicable only to the platforms identified. There are no new features introduced for MTM800; however several of the issues fixed in this release or ported from earlier releases are also fixed for this terminal.

For a full description refer to the Feature User Guide (which can be found in **Motorola Online** > **Resource Centre** > **TETRA Terminals** and then either to **Portable Radios** or **Mobile Radios** and then to the specific model you are interested in – e.g. MTP850 FuG/S and then to **Manuals**.)

MR5.14.10 is introduced alongside CPS Plus 6.2. For further information refer to Motorola On Line Resource Centre under TETRA Terminals/Integrated Terminal Management and CPS Plus respectively. CPS Plus 6.2 introduces the new feature "Display Radio CPU ID", however, MR5.14.10/10.6.10 customers can continue to use CPS6.1 if this feature is not required.

The MR5.14.10 Features are as follows.

Feature	Summarised Description	Enablement Needed	Platforms Affected
GPS loc update activity Icon [Tracking Ref 16530	Notifies user when the terminal is enabled for GPS but is searching for a fix. Solid icon – GPS fix obtained Blinking icon – Searching for GPS fix Codeplug configurable	Yes – within existing GPS	MTH800 MTP850 MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG MTP830/CEP400
DGNA Home Group (last selected DGNA deassignment behaviour [Tracking Ref 16532]	De-assignment of formerly assigned DGNA triggers the selection of a 'default talkgroup' Codeplug configurable	No	MTP850 MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG MTP830/CEP400



Feature	Summarised Description	Enablement Needed	Platforms Affected
Separate FW & CPS programming :	Provides new access levels enabling control over the actions available to different user types.	No	iTM/CPS feature
16533]			
And			
Tiered user Access LVL CTRL at PARM & GRP LVL: ITM Extended Access Level			
[Tracking Ref 16534]			
Shadow Group	Enables redundancy arrangements in Command & Control with LIP, status and	Not in the Test SW	MTH800 MTP850
Also known as LIP Status Target SSI (Shadow Group) via Selected Talk Group: Address Bundle.	RMS/FMS messages being sent to all valid command and control centres. Address Bundle assignment to Talkgroups and functionality. Codeplug configurable	version, otherwise Yes. New SW Selling Feature 'Shadow Groups'	MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG MTP830/CEP400 TCR1000
Tracking Ref: 16535 & CR 2783			
Visibility of audio mode : Tracking Ref R16537	User notification that loudest profile has been selected. Profile name and profile icon visible in idle screen. Codeplug configurable	No	MTH800 MTP850 MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG
			MTP830/CEP400
Configurable 'Allow Clear in LST' [Tracking Ref 2740]	MR5.14.9 introduced the 'allow clear in Local Site Trunking' feature to address a specific issue with Cassidian infrastructure. MR5.14.10 enables this feature to be configured via CPS Plus / iTM.	No	MTP850S MTP850FuG MTP830S MTP830FuG



Feature	Summarised Description	Enablement Needed	Platforms Affected
Man Down Enhancements [Tracking Ref CR2767]	Terminal remembers Man Down settings prior to most recent power down. Enable / Disable of Man Down via SDS Remote Control, also configurable to allow or disallow users to control Man Down.	Yes – existing 'Man Down'	MTP850 MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S
Battery High Temp Charging Notification [Tracking Ref CR2767]	Terminal display alerts users that battery charging has been stopped in a high temperature environment to protect the battery.	No	MTP830FuG MTH800 MTP850 MTP850 3L MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG MTP830FuG MTP830/CEP400
Audio Improvements for BSI E2EE	Through 'frame stealing' the audio quality of BSI E2EE has been improved.	Yes	MTP850FuG MTP830FuG TCR1000
AT command to extract System Times [Tracking ref CR2803]	AT Command '+CCLK ' extracts the system time, broadcast by the basestation, from the Tetra terminal.	No	MTM800E
Configurable Idle Screen	This feature gives the user the ability to configure which items should be displayed on idle screen. It is possible to configure which line will display specific information and the priority of particular item or information, where one line is specified for multiple items of information. In case there is not enough lines available in idle screen items with lower priorities will not be displayed	No	MTH800 MPT850 MTP850S MTP850FuG MTP850Ex MTP810Ex MTP830S MTP830FuG MTP830/CEP400
1 Wire surveillance kit. NNTN8459A	MR5.14.10 release certifies this surveillance kit for use with MTP850S Featuring an In-line push-to-talk and microphone combined on a single wire. Clear, comfortable translucent coiled cord and rubber earbud offer greater comfort for extended use.	No	MTP850S

1.1 Features now made available or improved

Please be aware that for the purpose of 'visibility of audio mode; feature, an additional functionality of configurable idle screen has been added to legacy portable and MTM5000 mobile series. This



powerful feature allows for flexible configuration of elements that are presented to the user on Home screen, on CPS level. However, default configuration is set in a way to provide backward compatibility, so that the layout is the same as in previous releases, and it is highly recommended to familiarize with CPS online help regarding this functionality before introducing any changes.

1.2 CPS Plus Upgrade / Downgrade

The MR5.14.10 Software release is for all TETRA terminals shown in Table 1.

Note: If DMO SCK is enabled then an additional check must be undertaken after upgrade to ensure DMO SCK is working. In some instances DMO SCK radio keys may have to be erased and re-keyed using the KVL.



Upgrades

CPS Plus supports Upgrade from the following releases.

Project	MTP850	MTP850 1.8W	MTP850 IP55	MTP850 Rhino	MTP830S/ FuG	MTH800	CEP400 / MTP830 (Commercial	АТЕХ	MTM800	MTM800E (Milan2 w.	NGCH)	TOM
MR5.14.10	Available	Available	Available	Available	Available	Available	Available	Available			Available	:
MR5.14.9b	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	:
MR5.14.9a	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	:
MR5.14.9	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	:
MR5.14.4			800MHz R	epeateron	ıly							
MR5.14.3c	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	:
MR5.14.3a	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	:
MR5.14.3	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	•
MR5.14	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	•
MR5.13.3	Available	Available	Available							Available		
MR5.13 / MR5.13.1	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	:
MR5.12.Atex.Isle								Available				
MR5.12.U.GPS.Shenzen										Available		
MR5.12.U.GPS									Available	Available		
MR5.12V	Available	Available	Available	Available		Available	Available	Available	Available	Available		T
MR5.12U	Available		Available						Available			T
MR5.12.Monaco.Police	Available	Available	Available	Available			Available					T
MR5.12.Shenzen	Available		Available				Available			Available		T
MR5.12.R	Available			Available			Available					T
MR5.12.Singapore	Available		Available				Available			Available		T
MR5.12 IP55	TOURDER	TOTAL	Available	rwanabie			rtvanabie			rtvanabie		t
MR5.12.Rhino LKP			rttunuuto		Available							t
MR5.12.Firelink					- Cranauro					Available		t
MR5.12	Available	Available		Available		Δvailable	Δvailable	Δvailable	Available			t
MR5.11.4	TOTAL	TOTALIBLE		radiable		rtranabic	rtvanabic	rtvanabic		Available		t
MR5.11.3										Available		t
MR5.11.2.Jinan.Police									rtvanabic	Available		t
MR5.11.2	350MHz only									350MHz o	nlv	+
MR5.11.1.Nodnett	Available	Available		Available						330WIII2 O		
MR5.11.1 Commercial	rtvalida	rtvaliable		rwanabic			Available					
MR5.11.1E							revaliable		Available	Available		
MR5.11.1	Available	Available		Available		Available		Available	Available			+
MR5.11.Rhino	Available	Available		Available		Available		Available	Available	Available		+
MR5.11	Available	Available		Available		Available		Available	Available	Available		+
MR5.10.Rhino	Available	Available		Available		Available		Available	Available	Available		+
MR5.10.Atex				Available				Available				+
MR5.10.Atex	Available					Available		Mananie		Available		+
CEP/MTP850 MR5.9.11	AvdildDR					Manapie	Available			Mananie		+
MR5.9.10		Available					Available		Available			+
MR5.9.10 MR5.9.3	20064112-0-1-	Available				200411				2901411	mler.	+
MR5.9.3 MR5.9.2	380MHz only					380MHz o	in y			380MHz o Available	шу	+
MR5.9.1	Available					Available				Available		+
												+
MR5.9	Available					Available			Available	Available	A ** 1 *	+
MR9.12		<u> </u>								 	Available	+
MR9.11		-									Available	-
MR6.7.2					-					-		A
MR6.7.1												Α

Note: This release supports the MTH800 radios in the 380-430 and 440-470MHz versions, however, this release does not support the MTH800 450-470MHz radios as detailed below.

MTH800 450-470MHz (not supported): PMUE2485A, PMUE2530A, PMUE2532A, PMUE2767A, PMUE2528A, PMUE2535A, PMUE2769A.

Table 1 CPS Upgrade Compatibility

Upgrades to MR5.14.10 from releases below MR5.11 are possible by first using a previous version of CPS to bring the terminal into the range of releases above MR5.11 shown in Table 1 then using CPS Plus to make the upgrade to MR5.14.10



Downgrades

Downgrades to the releases shown in Table 1 are also possible but not recommended if optimal terminal performance is sought. However, only the sensitive data (including tuning data) is maintained during the downgrading; other codeplug settings are lost. 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.

Downgrades to other appropriate releases from MR5.14.10 are possible by first using CPS Plus to bring the terminal into the range of releases above MR5.11 shown in Table 1 then using a previous version of CPS to make the downgrade. Also be aware of downgrade restrictions resulting from hardware changes that have been necessary to accommodate component obsolescence – refer to Motorola for guidance to ensure that the downgrade is compatible.

Project	MTP850	MTP850 1.8W	MTP850 IP55	MTP850 Rhino	MTP830S/ FuG	MTH800	CEP400 / MTP830 (Commercial)	АТЕХ	MT M800	MTM800E (Milan2 w. NGCH)	TCR1000	TOM
MR5.14.10	Available	Available	Available	Available	Available	Available	Available	Available			Available	
MR5.14.9b	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MR5.14.9a	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	
MR5.14.9	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	
MR5.14.4			800MHz R	epeater or	ily							
MR5.14.3c	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	
MR5.14.3a	Available	Available	Available	Available	Available	Available	Available	Available		Available	Available	
MR5.14.3	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MR5.13.3	Available	Available	Available							Available		T
MR5.13 / MR5.13.1	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MR5.12.Atex.Isle								Available				T
MR5.12.U.GPS.Shenzen										Available		T
MR5.12.U.GPS									Available	Available		
MR5.12V	Available	Available	Available	Available		Available	Available	Available	Available	Available		
MR5.12U	Available	Available	Available	Available		Available	Available	Available	Available	Available		
MR5.12.Monaco.Police	Available	Available	Available	Available			Available					
MR5.12.Shenzen	Available	Available	Available	Available			Available			Available		Ī
MR5.12.R	Available	Available	Available	Available			Available					T
MR5.12.Singapore	Available	Available	Available	Available			Available			Available		T
MR5.12 IP55			Available									T
MR5.12.Rhino LKP					Available							T
MR5.12.Firelink										Available		T
MR5.12	Available	Available		Available		Available	Available	Available	Available	Available		T
MR5.11.4									Available	Available		T
MR5.11.3									Available	Available		T
MR5.11.2.Jinan.Police										Available		T
MR5.11.2	350MHz only									350MHz only		T
MR5.11.1.Nodnett	Available	Available		Available								T
MR5.11.1 Commercial							Available					T
MR5.11.1E									Available	Available		T
MR5.11.1	Available	Available		Available		Available		Available		Available		T
MR5.11.Rhino				Available								T
MR5.11	Available	Available				Available		Available	Available	Available		T
MR5.10.Rhino				Available								T
MR5.10.Atex								Available				T
MR5.10	Available					Available				Available		T
CEP/MTP850 MR5.9.11							Available					T
MR5.9.10		Available					Available		Available			Ť
MR5.9.3	380MHz only					380MHz o				380MHz only		t
MR5.9.2									Available			Ť
MR5.9.1	Available					Available			Available			Ť
MR5.9	Available					Available			Available			t
MR9.12											Available	t
MR9.11											Available	+
MR6.7.2												,
MR6.7.1												1
MR6.7		-										A

Table 2 CPS Downgrade Compatibility



Cautions:

- 1) Also note that under the combination of these conditions a fault has been seen:
- MR5.14.3c software release
- Enhanced Security Feature
- Repeater Feature
- Motorola terminal being used as a repeater in a talkgroup also containing non-Motorola terminals

Users should avoid creating this combination when adding features, upgrading or downgrading their terminals.

2) The parameters of use of Ignition Sense to Power on the MTM800E Series Mobiles (All Bands) has been subject to both Hardware and Software changes during the products lifetime. To manage these Hardware and Software combinations MR5.14.10 sets the Power on Timing sequence to a universal setting that suits all possible variants. If downgrading to a previous release and if the installation configuration uses the Remote Mount Enhanced Control Head using the latest LCD Displays (Sept 2013 onwards) a Hotfix is required to update the Power on Timing sequence to emulate the MR5.14.10 setting.

Non remote Mount Models including Data Box (Modem) usage is unaffected; however the Hotfix returns the timing sequence to the original design level and is therefore recommended. Should a faster Power on sequence be required to match specific applications such as 3rd Party Data solutions please refer to your Motorola Solutions Service Contact.

Motorola Solutions stresses that continued use of previous Software Releases with more recent Hardware Releases is not recommended.

2 Product and Release Information

Band	350-390MHz	380-430MHz	440-470 MHz	806- 870MHz
Platform*				
MTH800		Х	Х	
MTM800	Х	Х	Х	Х
MTM800E	Х	Х	Х	Х
MTP850 IP54	Х	Х		Х
MTP850 Class 3L IP54		х		
MTP850 IP55	Х	Х		Х
MTP850 Class 3L IP55		х		
MTP850S		Х		
MTP850FuG		Х		
MTP830S		Х		
MTP830FuG		Х		
MTP850Ex		Х		Х
MTP810Ex		Х		Х
CEP400		Х		Х
MTP830	X	Х		Х
TCR1000		X		

^{*} CPS PLUS will additionally support MTP3000, MTM5000, MTM6000 Series and TOM100 products that are not subject to this MR5.14.10 release (see separate Release note for MR10.6.10 Release).

2.1 Frequency limitation

none

2.2 Sales Models

There are no new radio tanapas introduced with MR5.14.10



2.3 New Hardware Support

No new hardware is introduced with MR5.14.10.

2.4 Product Details

The following terminals with the following encryption possibilities are supported by MR5.14.10:

AIE	E2E	CEP400 MTP830 MTP830S	MTP830 FUG	MTM800 / MTM800E	MTH800	MTP850 IP54	MTP850 IP55	MTP850S	MTP850FUG	MTP8503L IP54	MTP8503L IP55	MTP810Ex	MTP850Ex	TCR1000
Clear	Clear	X X X		X	X	X	X	X		X	X	X	X	X
TEA1	Clear	X X		X	X	X	X	X		X	X	X	X	X
TEA2	Clear	X	X	X	X	X		X	X	X		X	X	X
TEA3	Clear	X		X	X	X	X	X		X	X	X	X	X
Clear	UCM			X	X	X	X	X		X	X			X
TEA1	UCM			X	X	X	X	X		X	X			X
TEA2	UCM			X	X	X		X		X				X
TEA3	UCM			X	X	X	X	X		X	X			X
TEA2	BSI	·	X			X			X	X		X	X	X
	SIM													

Figure 1 Supported Software and platform configuration

2.5 Fixes to Reported Problems

The following list includes all the Customer Care Cases (C3 Case) were closed with MR5.14.10 Software release. Refer to section 2.5.2 for details of how the terminal behaviour has changed (User symptom = before the fix, resolution = after the fix).

FRB	C3	Description	SR	Behaviour Change
CR21642	23548473, 23549798	Sending SDS to Own ISSI via PEI Fails in MR5.14.3c	CCMPD01791043	Enable functionality for own ISSI
	23603805	MTM800FuG Additional Character in Displayed OPTA	CCMPD01807641	Fixed
CR21972	23624822	MTM800 FuG does not swich off, if no SIM card inserted [Gerät mit Zundungsplus ohne BO	CCMPD01811071	Radio switches off when ignition is off
CR21930	23580330	Zetron M390n can initiate an emergency calls even if the feature is disabled at codeplug	CCMPD01809592	Emergency won't work when feature disabled
CR21973	23624876	Permanent transmit when PTT is pressed in hangtime of Receive Only Announcement call	CCMPD01810511	Fixed
CR21932	23626313	Reset when attempting to view active scan list if the first scan list is disabled	CCMPD01815519	Fixed
CR21974	23625141	MTM800 uses different TG in the location update demand compared to selected TG	CCMPD01816411	Fixed



FRB	C3	Description	SR	Behaviour Change
CR21453	23432657	MTP850FuG MR5.14.3: Not possible to select Extra Zoom in CPS+	CCMPD01761387	Fixed
CR21641	23527049	Radio does not transmit if transmit request had been queued (PEI behaviour change)	CCMPD01793529	Immediate connection on TX grant
	00000000	Time to read talkgroup information from PEI increased when DAIM is enabled	CCMPD01793531	Improved time for TGs reading
CR22059	23527011	Different PEI behaviour between MR5.11 and MR5.14	CCMPD01796523	Fixed
CR21931	23616006	Low battery warning is never cleared on MTM5400	CCMPD01809935	Warning is not posted after Voltage is back on valid level
	23440816	Radios Response to TG Affiliation Change	CCMPD01811868	See detailed description under the table
CR20506	23311724	MTM800E CRC error on PEI- PPP protocol	CCMPD01728577	Fixed
CR21048	23323044	MTP850 MR5.14: Behaviour change in the Start Monitoring Threshold Delta function	CCMPD01755928	Fixed
CR21715	23483969	GW indicates channel busy by yellow led although channel is free	CCMPD01811038	Fixed
CR17760	22707522	DTMF tones are not sending from MS	CCMPD01820427	Fixed
	23637737	Reset during gateway Operation MR10.6.3c	CCMPD01810066	Fixed
	23499638	MTM800E Control Head Car Radio Mute Output does not function	CCMPD01816327	Fixed
CR20257	23287409	Corrupted data in ATCMD output while RTS line change by TE	CCMPD01774689	Fixed
CR18258	22878486	MS doesn't re-attached to DGNA'd TG's with mode Attachment for next ITSI attach	CCMPD01835174	Fixed



FRB	C3	Description	SR	Behaviour Change
CR21561	23237957	MTM800 doesn't terminate PPP connection correctly	CCMPD01837814	Fixed
	23304469	MTM800 FuG AT+CNUM? output delays and delayed/missing CRLF	CCMPD01724450	Fixed
CR20535	23329261	Double OK notification after ATH command	CCMPD01846948	Fixed
	23435787 23421301	Intermittent behavior of Charging and iTM programming	CCMPD01758760	Fixed
CR22005	23518849	Some radios in the system are "Register-mode "in affiliation display	CCMPD01834033	Fixed
	23592161	MTM5400 won't power up and frequently there are an issues to ready it by CPS PLUS	CCMPD01818296	Fixed
CR22359	23611181	MTP850Ex Split Screen issue	CCMPD01824581	Fixed
CR21931	23616006 23702072	Low battery warning is never cleared on MTM5400	CCMPD01832982	Fixed
	23624851	Scrambling Vector of all zeros is not used for color code zero	CCMPD01836407	Fixed
CR22124	23628691	RHINO MTP850S/FuG: Connected SAD earpiece Max Volume cannot be set	CCMPD01756987	Fixed
CR22443	23674292	Slow response of Tx noise filter	CCMPD01852224	Fixed
	23688458	ManDown Icon Covered by Alert type/Vibration Icon	CCMPD01840417	Fixed
CR22256	23688821 23725188 23752856	Auth.keys erased during restore MR10.6.9 BSI radio restore to any previous version	CCMPD01836551	Fixed
CR22334	23689888 23708909	User Defined Language Text also in English	CCMPD01830877	Fixed



FRB	C3	Description	SR	Behaviour Change
CR22335	23698311 23713913	MTM800FuG 'Unknown accry combination' after upgrade to MR10.6.9	CCMPD01839443	Fixed
CR22441	23699094	Monitoring Fails on Background Mode Gateway	CCMPD01840027	Fixed
CR22361	23707326	Radio ends up on wrong TG when making Non-Tactical EGC after DGNA Deassign	CCMPD01837511	Fixed
	23712268 23733051	Talkgroup Call without any Audio	CCMPD01843464	Fixed
	23721651	SwMi Initiated scanning is started even if Scanning is disabled in codeplug	CCMPD01847981	Fixed
	23721719	All multiple remote control responses marked as last part	CCMPD01845118	Fixed
	23723957	MTM 800FuG - No Line_out	CCMPD01848915	Fixed
CR22396	23725342	MTP850 shows wrong TG names when listed through MMI options.	CCMPD01840324	Fixed
	23743418	Date/Time display lost on receipt of status.	CCMPD01846381	Fixed
	23745103	Talkgroup becomes free but no transmit 2nd time PTT held	CCMPD01849293	Fixed
	23751380	MTM5400 PI=138 unusable after upgrade to MR10.6.9	CCMPD01849602	Fixed
	23751786	Extra Zoom on/off toggle does not work after switching radio off	CCMPD01852292	Fixed
	23773097	MTM5400 - wrong font size for Danish letters	CCMPD01852273	Extra large font is only available for English and German
	23790821	D8.1 - MTM800E with Remote Control Head cannot be powered up through ignition sense	CCMPD01865005	NGCH Timer expiry change to 3 sec



FRB	C3	Description	SR	Behaviour Change
CR21643	23492063	Sending radio shows message failed when using resend option to resend group SDS	CCMPD01826899	Fixed
CR22525	23733040	NETWORK ALIAS displayed is incorrect	CCMPD01847731	Fixed
CR22542	23732704	Occasional E2E transmissions with no audio	CCMPD01848021	Fixed
CR22615	23755962	MTM800E status via PEI fails in MR5.14.9 using Motorola syntax	CCMPD01858323	Fixed
CR20194	23287962	Helptext for remove cells after failed scanning is wrong in CPS	CCMPD01718037	Helptext corrected.

2.5.1 C3 Case resolved in CPSPlus / Release Packages

FRB	C3	SR	Headline	Behavior Change
CR226 42	2377 8991	CCMPD0 1856817	C3:23778991 SDS ACK cannot be disabled in the TETRA CPS 6.1	Fields "Individual SDS L3 Status Ack" and "Group SDS L3 Status Ack" are ready only if customer upgrade to CPS6.1, the fix is to make them editable.
CR226 14	2375 1786	CCMPD0 1855488	C3:23751786 Extra Zoom on/off toggle does not work after switching radio off	Once Extra Zoom is enabled, current settings for Font Level, Extended Status Icons and Large Idle Font will be saved. And Font Level, Extended Status Icons and Large Idle Font will be restored once Extra Zoom is disabled.
CR225 51	2374 1819	CCMPD0 1854791	C3:23741819 - Error Message & Incorrect Import	When "TalkGroups -> DMO -> DMO Folders List -> Number of Talkgroups in the Range" is modified to less than the talkgroups, CPS will accept the change and warning message will propmpt "New Range is insufficient to store all Talkgroups. Groups out of range were removed from this folder."
	2368 9899	CCMPD0 1839064	C3:23689899 Feature flag & Language Names Entirely in Uppercase Characters	Some CP fields name in German language should be written with the first character in uppercase and the following characters in lowercase
	2362 4851	CCMPD0 1836485	C3:23624851 - Scrambling Vector of all zeros is not used for colour code zero	Add new field "Mobility and System Parameters -> Mobility Parameters-> Scrambling vector for colour code 0"
CR210 76	2343 7226	CCMPD0 1762836	C3:23437226 - LKP RADIOS VS FULL KEY PAD RADIOS - INCONSISTENT DISPLAY SETUP IN CPS	Add GUI field "Group Setup->My Groups->New Folder" for LKP models.



FRB	C3	SR	Headline	Behavior Change
			C3:23273419 Missing	Integrate new OLH to fix some help text issue,
	2327	CCMPD0	and insufficient help text	node name "Transceiver Hands Free Mic
	3419	1748295	for mobile accessories	Connected" was updated to "Transceiver Hands
				Free Mic Connected".

2.5.2 Details of C3 Cases Resolved in MR5.14.10

2.5.2.1 C3: 23548473 - Sending SDS to Own ISSI via PEI Fails in MR5.14.3c

User symptom: Customer upgraded MTM800E from MR5.14 to MR5.14.3c and having issue when

trying to send an SDS to its own ISSI.

Resolution: Enable functionality for own ISSI

Products affected: ALL

SW releases affected: MR5.14.10, MR5.EOL.14.17, MR10.7

2.5.2.2 C3: 23603805 MTM800FuG Additional Character in Displayed OPTA

User symptom: Customer upgraded MTM800E from MR5.14 to MR5.14.3c and having issue when

trying to send an SDS to its own ISSI. *Resolution*: Delete last character

Products affected: MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.3 C3: 23624822 - MTM800 FuG does not swich off, if no SIM card inserted [Gerät mit Zundungsplus ohne BO

User symptom: MTM800 FuG does not swich off on ignition off

Resolution: Radio switches off when ignition is off Products affected: MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.4 C3: 23580330-Zetron M390n can initiate an emergency calls even if the feature is disabled at codeplug

User symptom: Emergency via RC works when feature is disabled Resolution: Emergency won't work when feature is disabled Products affected: MTM5000 Series / MTM800FuG, MTP8xx

SW releases affected: MR10.6.10, MR5.14.10

2.5.2.5 C3: 23624876 - Permanent transmit when PTT is pressed in hangtime of Receive Only Announcement call

User symptom: Receive only folder with TG1 as ATG when making call to TG2 set to AAG of TG1 enters into permanent transmit (complex scenario, described inside SR CCMPD01810511)

Resolution: Radio doesn't enter constant transmit mode

Products affected: MTM800E, MTP8xx SW releases affected: MR5.14.10

2.5.2.6 C3: 23625141 - MTM800 uses different TG in the location update demand compared to selected TG

User symptom: Radio resets *Resolution:* Radio works fine

Products affected: MTM800, MTM800E SW releases affected: MR5.14.10

2.5.2.7 C3: 23432657 - MTP850FuG MR5.14.3: Not possible to select Extra Zoom in CPS+

User symptom: Unable to select ExtraZoom in CPS

Resolution: ExtraZoom option not supported for BSI devices to accommodate OPTA length

Products affected: MTP8x0, MTP8x0E



SW releases affected: MR5.14.10

2.5.2.8 C3: 23527049 - Radio does not transmit if transmit request had been queued (PEI behaviour change)

User symptom: Radio doesn't wait few seconds on transmit with CARLS solution after TX grant

Resolution: Radio works like for 10.3 release - immediate connection on TX grant

Products affected: MTP8x0. MTM800FuG

SW releases affected: MR10.6.10

2.5.2.9 C3: 00000000 - Time to read talkgroup information from PEI increased when DAIM is enabled

User symptom: Time rised significantly from .3 release

Resolution: TG read time is ok

Products affected: MTM5x00/MTM800FuG

SW releases affected: MR10.6.10

2.5.2.10 C3: 23527011 - Different PEI behaviour between MR5.11 and MR5.14

User symptom: MS does not open MIC in case the FDPC is imitated via PEI on the MR10.6 (VOX

disabled in CP)

Resolution: Radio works fine Products affected: MTP8xx SW releases affected: MR5.14.10

2.5.2.11 C3: 23626313 - C3:23616006 - Low battery warning is never cleared on MTM5400

User symptom: 'Low Battery' warning indication continues to be posted every 2 minutes.

Resolution: Warning is not posted after Voltage is back on valid Level

Products affected: MTM5000/MTM800FuG

SW releases affected: MR10.6.10

2.5.2.12 C3: 23440816 - Radios Response to TG Affiliation Change

User symptom: Issues with the output on the PEI interface when changing the talkgroup from Motobridge (via PEI AT command) the Teltronic SwMi sends a 'Temporary 1 detachment' for the detached talkgroup.

Resolution: Radio shall check GSSI and attach/detach this particular group from the radio; Radio will have to remember which groups have been requested for attach / detach in case where everything is accepted and there is no "Group identity uplink/downlink" element in the acknowledge; Products affected: All

SW releases affected: MR5.14.10/MR10.6.10

2.5.2.13 C3:23499638 MTM800E Control Head Car Radio Mute Output does not function

User symptom: Car radio mute output on Pin1 on DB25 connector on back head does not function

Resolution: Feature implementation is ported from MTM5400/MTM5500

Products affected: MTM800e SW releases affected: MR5.14.10

2.5.2.14 C3:23483969 GW indicates channel busy by yellow led although channel is free

User symptom: The radio indicates channel busy with yellow led although it's free *Resolution:* Reject out of context PDUs so that the GW remains in idle state.

Products affected: Gateway - MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.15 C3: 23323044 - MTP850 MR5.14: Behaviour change in the Start Monitoring Threshold Delta function

User symptom: Radio is not able to roam to neighbor cells. When radio camp on specific cell it stops monitoring neighbors and hence is not able to roam.

Radio behaves that way regardless of the level of CP field "Start Monitoring Threshold Delta".



Resolution: Radio properly interprets CP field "Start Monitoring Threshold Delta", enabling monitoring of neighbor cells if necessary.

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.16 C3:23624851 - Scrambling Vector of all zeros is not used for colour code zero

User symptom: when radio is trying to register to the site that has colour code set to zero it is using MCC and MNC to scramble packets and hence is not able to communicate with the site and to register to the site

Resolution: radio is using scrambling vector of all zeros in case of registering to the site with colour code zero.

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.17 C3:23237957 - MTM800 doesn't terminate PPP connection correctly

User symptom: When the user's Packet Data System is sending data to an MS terminal at regular intervals and the RDT attempts to terminate the PPP link, the link fails to disconnect properly. If the RDT then attempts to reconnect the PPP link it fails to connect.

Resolution: New requirements were created and implementation which followed replaced the previous incomplete resolution.

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.18 C3 23518849 Some radios in the system are "Register-mode "in affiliation display

User symptom: In a switchover scenario, radio stuck in the "register mode". The radis have a green led and can transmit but do not receive.

Resolution: fix switchover scenario.

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.19 C3:23674292 Slow response of TX noise filter

User Symptom: When the user presses PTT and speaks immediately, the noise may not be reduced from the transmitted audio. It is relevant to very noisy conditions like noise from air-conditioning fans. Resolution: Improve initial noise estimate in TX Noise Suppressor.

Products affected: MTM5000 series, MTM800FuG

SW releases affected: MR10.6.10

2.5.2.20 C3:23628691 RHINO MTP850S/FuG: Connected SAD earpiece Max Volume cannot be set

User Symptom: There are two symptoms:

- a) RSM earpiece uses incorrect audio settings if it is configured as connected before connecting RSM to the radio including powering the radio on with RSM connected.
- b) RSM earpiece uses incorrect audio settings till end of the call if it's configured as connected during call RSM earpiece connected settings does not work if they are set before connecting RSM to the radio.

Resolution: Radio works fine

Products affected: MTP850FuG. MTP850S

SW releases affected: MR5.14.10

2.5.2.21 C3:23611181 - Split Screen issue

User symptom: Screen is unreadable (looks like only a part of the display is rendered).

Resolution: Radio display is fine Products affected: MTP850 Ex SW releases affected: MR5.14.10



2.5.2.22 C3: 22878486 - MS doesn't re-attached to DGNA'd TG's with mode Attachement for next ITSI attach

User symptom: This customer is using an EADS network and the network is sending talkgroups to the radio via DGNA, the system sends the talkgroups to the radio with an attachement mode of 'Attached, attachment for next ITSI Attach required' and a priority CoU e.g. CoU 4 (Scanned - Normal Priority) Resolution: Resolved by correcting CP

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.23 C3: 23304469 MTM800 FuG AT+CNUM? output delays and delayed/missing CRLF

User symptom: When there are numerous dynamic talkgroups configured in the radio codeplug TMO talkgroup list, the radio takes a long time to respond to the AT+CNUM? command.

Resolution: new functionality added

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.24 C3: 23329261 Double OK notification after ATH command

User symptom: Following the ATH command to clear a call there is a Double OK notofication on

Cassidian SwMI

Resolution: Cassidian SwMI responses too slow, functionality changed in SW to fit SwMI behaviour

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.25 C3: 23616006 - Low battery warning is never cleared on MTM5400

User symptom: Low battery warning is never cleared on MTM5400/MTM800FuG

Resolution: The 'Low Battery' warning indication continues to be posted every 2 minutes.

Products affected: MTM800FuG SW releases affected: MR10.6.5

2.5.2.26 C3: 23688458 ManDown Icon Covered by Alert type/Vibration Icon

User symptom: After upgrade of MTP850FuG from MR5.14.3 to MR5.14.9 the Alert Type icon was

found to cover the ManDown icon

Resolution: fixed

Products affected: MTP850S, MTP8x0Ex SW releases affected: since MR5.14.10

2.5.2.27 C3: 23689888 User Defined Language Text also in English

User symptom: English language description (in white) overlapped by the translated description of the codeplug derived User Defined Language

Resolution: fixed

Products affected: MTM5000 Series / MTM800FuG

SW releases affected: since MR10.6.10

2.5.2.28 C3: 23713913 MTM800FuG 'Unknown accry combination' after upgrade to MR10.6.9

User symptom: MTM800FuG it unable to use the HSM1 or HSM2 with a speaker connected to the rear accessory connector.

Resolution: fixed

Products affected: MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.29 C3: 23699094 Monitoring Fails on Background Mode Gateway

User symptom: Call Monitoring on a gateway in background mode appears to fail for the second item within the reservation time of a call

Resolution: fixed

Products affected: MTM5000 Series / MTM800FuG



SW releases affected: MR10.6.10

2.5.2.30 C3: 23707326 - Radio ends up on wrong TG when making Non-Tactical EGC after DGNA Deassign

User symptom: The customer reported that an MTP850 (R13.010.8416) that was configured with Non-tactical Emergency was seen to send an Emergency Alarm and Emergency call setup to a group other than the configured Non-Tactical talkgroup.

Resolution: Non-tactical was started during handling dgna deassign in background task and dgna task had wrong information about current selected talk group.

Products affected: ALL

SW releases affected: since MR10.6.10

2.5.2.31 C3: 23721651 SwMi Initiated scanning is started even if Scanning is disabled in codeplug

User symptom: C3: 23721651 SwMi Initiated scanning is started even if Scanning is disabled in

codeplug

Resolution: fixed
Products affected: ALL

SW releases affected: MR5.14.10/MR10.6.10

2.5.2.32 C3: 23721719 All multiple remote control responses marked as last part

User symptom: When a remote control command generates a response in multiple parts all the parts are incorrectly marked as the last part in the sequence number field.

Resolution: Only that last part is marked as the last in the sequence number field.

Products affected: ALL

SW releases affected: since MR5.14.10/MR10.6.10

2.5.2.33 C3: 23723957- MTM 800FuG - No Line out

User symptom: The customer reported that approx every other time the MTM800 FuG radio boots up there is no audio available on Pin 14 of the RAC

Resolution: fixed

Products affected: MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.34 C3: 23725342 - MTP850 shows wrong TG names when listed through MMI options.

User symptom: Our Customer noticed that when they go through radio MMI Options -> TG by Folder -> RAPS Gavleb and when the list it downwards it appears that radio list same TG all the time

Resolution: fixed Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.35 C3: 23733040 - NETWORK ALIAS displayed is incorrect

User symptom: The group name instead of network alias is displayed on the idle MMI.

Resolution: closed without fix Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.36 C3: 23743418 Date/Time display lost on receipt of status.

User symptom: When a OPTA is configured with more than 12 digits, the OPTA display overflows into the next line of the MTP850FuG display and when a status is received, the status text overwrites the date/time on the display.

Resolution: Fixed in CPS at Codeplug -> Display Parameters -> Configurable Idle Screen

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10



2.5.2.37 C3: 23744870 MTP850EX MR5.14.3c PTTs on a Receive Only group

User symptom: After upgrade of the MTP850EX to the MR5.14.3c software it was found to be possible to transmit on a receive-only talkgroup.

Resolution: fixed prior to MR5.14.10

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.38 C3: 23745103 Talkgroup becomes free but no transmit 2nd time PTT held

User symptom: An MTM800FuG is controlled by a Carls Typ3 controller (uses AT commands). After a talkgroup is newly occupied (by a MTP850) the MTM800FuG operator presses the PTT in order to transmit on the talkgroup as soon as it becomes free. The MTM800FuG displays 'Please wait' until the MTP850 user releases his PTT. Then the MTM800FuG correctly transmits and can speak on the talkgroup.

Resolution: Cassidian SwMI interaction, functionality changed in SW to fit SwMI behaviour

Products affected: MTM800FuG SW releases affected: since MR10.6.9

2.5.2.39 C3: 23751380 MTM5400 PI=138 unuseable after upgrade to MR10.6.9

User symptom: After upgrade of a MTM5400 from MR10.6.3c to MR10.6.9 it was discovered that it was no longer possible to register a terminal equipment to the MTM5400 via the PEI for Protocol Identifier 138. Protocol Identifier 138 is used with a customers concatenated text application for long text messages.

Resolution: Registering ""TE Only"" service profile for PI=138 has been enabled.

Products affected: MTM5000 Series / MTM800FuG

SW releases affected: MR10.6.10

2.5.2.40 C3: 23751786 Extra Zoom on/off toggle does not work after switching radio off

User symptom: Extra Zoom On/Off is programmed to the # key as a One Touch Button. This works as expected until the MTP850FuG is switched off with Extra Zoom on.

Resolution: remove restoring of saved values on startup

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.41 C3: 23773097 - MTM5400 - wrong font size for Danish letters

User symptom: After upgrade from MR10.6.3c to MR10.6.9 the Danish letters Æ and Ø appear in too small font size compared to the rest of the text on the terminal display.

Resolution: disable biggest font for other languages

Products affected: ALL

SW releases affected: MR5.14.10 / MR10.6.10

2.5.2.42 C3: 23790821 HK - MTR Corporation Limited - D8.1 - MTM800E with Remote Control Head cannot be powered up through ignition sense

User symptom: Radio is not able to power up via Ignition pin or short button presses Resolution: Timeout expiry for synchronizing with control head has been extended from 1 to 3 sec. That implies that solutions without CH (data radio) may power up around 2 seconds longer. Third party solutions vendors shall take it into consideration as well.

Products affected: MTM800E SW releases affected: MR5.14.10

2.5.2.43 C3: 23827204 MTM5000 / MTM800FuG Series terminals power down and does not restart after cranking

User symptom: terminal installed in vehicles doesn't power up after cranking

Resolution: Stop all active services and reset (preserving all settings) if the power voltage falls below 9.7V for at least 250ms. After the reset radio monitors voltage level and delays entering application mode until voltage goes above 10.3V

Products affected: MTM800FuG Series / MTM5000 Series

SW releases affected: MR10.6.10



2.5.2.44 C3: 23492063 - Sending radio shows message failed when using resend option to resend group sds

User symptom: Radio shows message failed, although it was delivered

Resolution: On re-send message from Outbox, MS shall check the target address type. If Group or ESN then delivery report shall always be "no report reply", otherwise for Private it shall follow the

original request Products affected: All

SW releases affected: MR10.6.10

2.5.2.45 C3: 23733040 - NETWORK ALIAS displayed is incorrect

User symptom: The group name instead of network alias is displayed on the idle MMI

Resolution: Closed without fix

Products affected: All

SW releases affected: MR5.14.10/MR10.6.10

2.5.2.46 C3: 23732704 - Occasional E2E transmissions with no audio

User symptom: No audio occasionally

Resolution: Closed without fix

Products affected: All

SW releases affected: MR10.6.10

2.5.2.47 C3: 23755962 - MTM800E status via PEI fails in MR5.14.9 using Motorola syntax

User symptom: No audio occasionally

Resolution: Closed without fix

Products affected: All

SW releases affected: MR5.14.10

2.6 Unresolved Problems / Known Limitations

CCMPD Reference	Headline	Details
CCMPD01848714	Bad attritbute of tones CP field cause customer complaint	Problem Description: Cloning CP from radio which was in Covert Mode causes loss of tones settings. Scenario: Put radio into covert mode, power off, read CP, clone CP. Setup new radio with saved data. Impact: n/a Workaround/Avoidance: Make sure, radio is in default mode before cloning CP. Recovery: Radio is fully operational after writing new CP.



CCMPD	Headline	Details
Reference CCMPD01815375	[RESET]Radio falls in reset during makes/receives GC in specific SwMI configuration	Problem Description: Radio may reset in specific SwMI configurations and when performing stress test scenarios Scenario: Initial Settings: Zone Configuration Manager->Zone Settings Window->Configuration Tab-> 'Initial Transmissions' parameter set to non-default value greater than 4. Steps: Intense continuous PTT pressing for several seconds when radio is in idle or in group call hang time. Radio reset may eventually occur Impact: Several seconds of delay in service availability (radio recovery time) Workaround/Avoidance: Use default value of 'Initial Transmissions' parameter or avoid continuous intense PTT pressing. Recovery: Radio recovers automatically after reset and is fully operational
CCMPD01862209	[RANGE TESTS] Unstable Repeater in UCM configuration.	Problem Description: It has been observed that UCM version of repeater on Patriot-based portable radios (MTP850, MTP850Ex, MTH800) may be less stable in field usage in comparison to other SW versions. This includes gaps on call starts, delays in reception and handling calls, and in rare cases resets. It applies mainly to handling private calls with presence check sequence, and may be exposed more if DM-SCK encryption is additionally used. Scenario: Intensive usage of DM-REP in high distance/poor RSSI conditions. Impact: Stability and reliability for DM-REP with UCM E2E. Workaround/Avoidance: Don't use combination of all of the following features: DM-REP on UCM E2E, DM-SCK encryption, DMO individual calls with presence check. Avoid using DMO emergency alarm, as it is not supported by the Motorola repeater radios. Recovery: n/a



CCMPD Reference	Headline	Details
CCMPD01861660	[10.6.10] Radio displays 'No Group' after emergency non-tactical w/o attachment	Problem Description: "No group" on a screen, although it is attached to main group. Scenario: User starts radio with emergency button After ~2 seconds, end button twice (radio attached to main group, but didn't attached to always scanned group yet) MS ends up in "No group" on a screen, although it is attached to main group. Workaround/Avoidance: Don't end call with double pressing END button when radio is during registration Recovery: Wait some time (5-30 secs)
CCMPD01865199	[MR5.14.10] VOX doesn't work with fist mic connected to GCAI after power up NGCH	Problem Description: VOX doesnt work on fist mic connected to CH GCAI after power up. When user make another call everything works correctly. Problem seen In both calls Private and PABX. This happens in ca. 10%. Impact: VOX capability on accessories in particular configuration Scenario: Radio equipped with speaker and two fist microphones: "Fist Mic1" and "Fist Mic2" (e.g. GCAI Fist mic connected to the Control Head and TELCO Fist mic connected via junction box). After power up and receiving a call by pressing SEND button, it won't transmit to the other party. Workaround/Avoidance: Accept the call using PTT. Recovery: Press PTT if call was accepted by SEND button.
CCMPD01864431	[MR14.0][DMO,GW,DGNA] DGNA is not working on GW after power up	Problem description: DGNA auto-assign is not working on GW after power up (MS is not sending attachment to new assigned TG - manually accepted either) Workaround/Avoidance: The functionality of DGNA auto-assign is questionable in gateway mode. It's highly recommended not to use this functionality for gateway radios. In future releases, the radio behavior in this context is a subject to change. Recovery: n/a



CCMPD Reference	Headline	Details
CCMPD01838138, CCMPD01804512	USB connection loss or block	Problem description: For intensive usage of USB ports (e.g. for TEDS connection with MTM5000 radio as a modem) it may rarely happen that the USB connection will be lost or will become unresponsive. This may especially happen when there are significant temperature changes. This applies only to MTM5000 radios produced before Q3 2014. Impact: USB connection stability Workaround/Avoidance: Use newer MTM5000 radios or avoid exposing radios to wide temperature changes (e.g. from -20 C to heated environment when radio continuously transmit, when it can achieve +60 C). Recovery: Radio power-off and power-on.
CCMPD01862832	[TEDS] Radio entering SSPD while roaming between two TEDS supporting cells	Problem decription: Radio may enter single slot packet data mode while roaming between two TEDS supporting sites. This implies the bandwith to be lower, and therefore the number of lost packets may increase as well. TEDS transmission will resume after subsequent channel change (new separate transmission is requested). Impact: TEDS in roaming scenarios, may be particularly disturbing for continuous transmission (streaming) Workaround/avoidance: Problem is less frequently reproducible if no air interface encryption is used. Recovery: Radio recovers on its own for the next transmission.

2.7 Release Version Information (Release Name)

Refer to Section 2.4

2.7.1 Common Software

The TCR1000 RCU software remains at R18.000.6009 and is unchanged.

2.7.2 CPS PLUS support

CPS PLUS Version: 6.2

Depot R06.20.09.00
Customer R06.20.09.00

From MR5.14.9 CPS Plus' naming is aligned with iTM.

Refer to Annex – CPS Upgrade.



2.7.3 Codeplugs

Refer to the front cover of this document for the reference numbers and to the appendix to understand the changes in this software release.

2.8 Software Distribution Location

2.8.1 Within Motorola Solutions

CPS:

http://cps.sc.mcel.mot.com/tetracpsrelease1/Gen4/Panda/CPS Plus 6.2/R06.20.09.00 PLATFORM P6.2/Tetra/

CPS Plus 6.2 Depot CPS

http://cps.sc.mcel.mot.com/tetracpsrelease1/Gen4/Panda/CPS_Plus_6.2/R06.20.09.00_PLATFORM_P6.2/Depot/

MR5.14.10/ Release Packets:

MR5.14.10 Release Packets:

 $\frac{\text{http://cps.sc.mcel.mot.com/tetracpsrelease1/ReleasePackets/MR5.14.10/FW8624_R0610630}{0/}$

MR5.14.10SB Release Packets (for MTM800 and MTM800E):

http://cps.sc.mcel.mot.com/tetracpsrelease1/ReleasePackets/MR5.14.10/FW8480_FW8483_R06106300/

All links are access controlled.

USB Driver Install Tool

USB driver will automatically be installed with CPS. If the user wants to install USB driver without install CPS, they can download a USB install tool to install the USB driver only. This tool can be found at: http://cps.sc.mcel.mot.com/tetracpsrelease/ReleasePackets/MR10.5/DriverTool/

2.8.2 For Customers

On Motorola Online: https://moleurope.mot-

solutions.com/Member/ContentManagement/resourcecenter.asp

Resource Centre → All File Content Types → TETRA Terminals → TETRA Terminal Updates → MR5.14.10/MR10.6.10.

All links are access controlled.

2.9 Limitations to use

None

2.10 Operation Notes

This section outlines all exceptions and defects known at the time of issue that are considered to have a customer impact. Any customer impacting exceptions are defined below:

• A defect or fault for which there is a valid and viable workaround but the lack of awareness of the workaround could have safety implications or render the product unusable.



- A temporary change in procedures is required to 'workaround' a defect or fault in order to maintain a feature or function.
- Cosmetic problems which may mislead users and cause unnecessary alarm or which are particularly distracting or annoying.

This section does not include:

- Anomalies observed during the System Integration phase of the release, which are not reproducible.
- Defects that cause performance degradation, which cannot be detected by the user.
- Cosmetic defects that are not listed above.
- Defects that will only manifest as faults after two or more consecutive low probability system faults have occurred.

Unless stated otherwise within the text of the exception/defect, a solution to each problem is being sought by the development group.

The following section outlines brief Operation Notes for respectively TETRA terminal and CPS PLUS.

2.10.1 DGNA De-assignment on TCR1000

To prevent the TCR1000 terminal going into a 'no group' situation when a talkgroup that had been assigned by DGNA is subsequently de-assigned, initially configure the TCR1000 radio such that there is a TMO talkgroup in rotary positions 9 and 10 for each favourite folder. Thus if a DGNA assigned talkgroup is subsequently de-assigned it will always revert to the talkgroup initially configured into the codeplug.

2.10.2 CPS Plus P6.2 Cautions

2.10.2.1 CPS does not support USB 3.0

- USB 3.0 is not supported; please contact your IT support to disable USB3.0 on your PC.

2.10.2.2 CPS on Windows Vista/7

Reboot is required on Windows Vista/7

After installing the CPS on Windows Vista/7, the OS must be rebooted to reflect the driver updates for CPS.

- Make sure the folder is R/W

On Windows Vista/7, when setting up the directory in CPS->Options, make sure the folder has R/W permission. If the folders are READ ONLY, then the CPS Codeplug Backup, Log and related CPS features that require writing access will not work.

2.10.2.3 Import TMO TG User data

MR5.11 CPS changed the TMO Talkgroup (TG) structure compared to MR5.8, MR5.9 and MR5.10 CPS. TMO TG user data exported from MR5.8, MR5.9 and MR5.10 CPS cannot be imported into MR5.11 and latest CPS. The user can use MR5.11 CPS open the MR5.8, MR5.9 and MR5.10 Codeplug, then export the user data again.

2.10.2.4 Downgrade cautions

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. To rollback a radio to a previous version the "Tools->Restore Radio" shall be used instead of the downgrade. This functionality is used to downgrade both the phone software version and codeplug tuning data.



2.10.2.5 **GSSI Caution**

The Non-Tactical Emergency GSSI shall be added to TMO Talkgroup list (if not already there) before enabling the Enhanced Security licence.

2.10.2.6 Some fields need be re-configured after importing TMO Talkgraoups

Problem Description: After importing the User Data which contains the TMO talkgoups list, the value in One Touch Button, Scan List, Favourite Group, "Codeplug->TMO Voice Services->Emergency Options->Default TMO TG for Emergency DMO to TMO" and "User Application->Call-Out->Call-Out Fallback TG" need to be re-configured.

Impact: If one Touch Button is assigned to "Change TalkGroup" function, the field "Select TalkGroup" shall not be left as "unassigned", otherwise if user enter to TMO Talkgroup List or TMO Folder List, then cannot leave the node and save codeplug.

Workaround/Avoidance: close the Codeplug and open again.

2.10.2.7 Cautions for features Auto-Recover

Problem Description: Please do not remove the battery when programming radio because it may cause CPS cannot recover the radio correctly.

Impact: Auto-recovery feature is available for MTH800, MTP850, MTM800E, MTP850 Ex/MTP810 Ex, MTP830/CEP400; it is not available for MTM5000 Series, MTM800, TCR1000, TOM100 or PDA. **Workaround/Avoidance**: The USB cable must not be un-plugged during recovery; otherwise the radio cannot be recovered.

2.10.3 KNOWN ISSUES and WORKAROUNDS FOR ISSUES

2.10.4 Please do not uncheck the options in Tools->User Options-> Compress data.

Scenario:

Please do not change the default selection -'Tools->User Options->Compress data'. If it is unchecked, sometimes MTM800E radio cannot be programmed by Tetra CPS Plus

Impact: MTM800E cannot be programmed by Tetra CPS plus, the programming task may be

interrupted.

Workaround/Avoidance: Keep the default value - Compress Data

Recovery: N/A

2.10.5 Transceiver can not be detected by CPS sometimes.

Scenario:

Get MTM800E radio enter to programming mode Connect the radio to PC and open Tetra CPS plus

Check the Control head and transceiver status in Terminal Icon list

Sometimes the transceiver does not list in Terminal Icon list

Impact: CPS cannot detect transceiver.

Workaround/Avoidance: plug out and plug in the USB cable or turn off radio and turn on. **Recovery:** plug out and plug in the USB cable again or turn off radio and turn on again.

2.10.6 Wrong display order in Codeplug Compare window

Scenario:

Prepare two codeplug Disable [Display Parameters->Menu Configuration->Setup->Vibrate] in CP1 Compare this two CP



Click the row - [Display Parameters->Menu Configuration->Vibrate] and observe the synchronization in the Compare codeplug window

The cursor shall jump to field – Display Parameters->Menu Configuration->Vibrate, **but it is not – it jump to field**, Display Parameters->Menu Configuration-> Display Parameters->Menu Configuration->Security->Convert Mode->Vibrate

Impact: The display order is wrong, jump to a wrong field

Workaround/Avoidance: N/A

Recovery: N/A

2.10.7 Please turn off radio after MTM800 FUG/MTM5400/MTM800 FUG ET/MTM5500 upgrade/downgrade finish

Scenario:

After upgrade or downgrade MTM800 Fug/MTM5400/MTM800 FUG ET/MTM5500 radio, please firstly turn off radio before you do other programming task. Otherwise, the programming task will fail, for example, after upgrade finish and then do the read radio operation at once without turn off radio, the read operation will fail.

Impact: The task will fail if the radio does not turn off and turn on.

Workaround/Avoidance: Pleas turn off radio after the upgrade/downgrade operation finish.

Recovery: N/A

2.10.8 SR CCMPD01815761 [F][3] - 5 radio failed when setting password for 16 boromir at the same time

Scenario:

Program 16 Boromir or Aragorn radios at the same time by using CPS6.1.

Impact:

Some radios will be failed on programming.

Workaround/Avoidance:

For Boromir and Aragorn radio, it is recommended that up to 12 radios can be programmed at the same time on the same PC.

Recovery:

N/A

2.10.9 SR CCMPD01806152 [F][3] - The TR part of MTM5200/MTM5400/MTM800FuG is broken when MTM5200/MTM5400/MTM800FuG and MTM5500/MTM800FuG ET upgrade at the same time

Scenario:

Program MTM5200/MTM5400/MTM800FuG and MTM5500/MTM800FuG ET at the same time on the poor USB performance PC, *for exmple HP6000*.

Impact:

The programming may fail.

Workaround/Avoidance:

Don't use a poor USB performance PC, like HP6000, for radio programming.

Recovery:

N/A

2.10.10 Cannot upgrade previous x64bit CPS to CPS6.1 or future releases

Scenario:



Previous x64bit CPS has been installed on PC, customer expects to get x64bit CPS6.1 by upgrading installation.

Impact:

CPS6.1 only provides the x32bit version. Then customer cannot upgrade previous x64bit CPS to CPS6.1.

Workaround/Avoidance:

- 1. If the customer has fully installation package, the customer can do fully installation to get CPS6.1.
- 2. If the customer has only upgrade installation package, the customer has to uninstall previous x64 bit CPS and install x32bit previous CPS. Then upgrade CPS to 6.1.

Recovery:

N/A

2.10.11 SR CCMPD01856114 [F][3] – [Headline] Enhance Invalid status in AB List

Scenario:

- 1. Enable [Address Bundle],
- 2. Enable [TalkGroups -> TMO -> TMO Address Bundle List -> Status],
- 3. Input a [Address Bundle Name],
- 4. Check the [TMO Address Bundle List] and [TalkGroups]
- 5. Disable [Address Bundle],
- 6. Check the invalid fields.

The invalid fields will not be prompted in the "invalid view" and there is no invalid icon on the left tree view on GUI.

Impact:

- 1. This issue was found in iTM6.1 and iTM6.2.
- 2. The "Address Bundle" feature was affected.
- 3. CPS will prompt error message when the end user save the codelug with invalid fields or attempt to write the codeplug into radio.

Workaround/Avoidance:

If the end user changes codeplug fields on "Address Bundle" feature, the invalid fields should be checkd on the "Address Bundle" feature page in CPS. As ususally, the invalid fields will be marked as red on the right view.

Recovery:

N/A

2.10.12 SR CCMPD01866839 [F][3] – [Headline]USB Driver tool no response if upgrade install from CPS 6.0.2

Scenario:

If "USB Driver tool" does not work in your current installed CPS, after upgrade install CPS to 6.2, the Tool does not work either.

Impact:

Then "USB Driver tool" may not work

Workaround/Avoidance:

Uninstall CPS and re-install the P6.2 CPS again.

Recovery:

N/A

2.11 CPS BEHAVIOR CHANGES which INTRODUCED BY DEFECT FIX

2.11.1 SR CCMPD01843936 - [P6.2] CPS may popup warning message when power off radio



Scenario:

If user clicks "turn off radio" button on CPS, CPS may popup warning message saying failed to power off radio, but radio has been powered off.

Impact:

CPS will not prompt any warning message during radio turn-off, one log will be added into CPS task manager after turn off radio whatever it is successful or failed.

2.11.2 SR CCMPD01832390 - MR10.6.10:Remove 15 maxmimum limition of language enabled in CPS

Scenario:

User can only enable less than 15 languages under "Language Parameters -> Language Settings" befor MR5.14.10/MR10.6.10.

Impact:

This limitation has been removed from MR5.14.10/MR10.6.10. But it doesn't mean user can write all luangages into radio. How many language can be written into radio depends on the language flash pack size and radio language memory size.

2.11.3 OPERATIONAL LIMITATIONS

2.11.3.1 Downgrade

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 refers to the CPS Online help.

2.11.4 USERS HOW-TOS

How to re-install the CPS Plus (not for the first time):

- For Customer CPS Plus:
 - 1. Run Setup.exe;
 - 2. The different dialog will appeared according whether the computer has installed CPS Plus before:
 - a. If no any CPS Plus was installed, then installation program directly goes into the first installation welcome dialog;
 - b. If a lower CPS Plus version was installed, then installation program will ask whether the customer to upgrade the existed version;
 - c. If a same CPS Plus version was installed, then installation program will prompt the following installation type:
 - i. Modify
 - ii. Repair
 - iii. Remove
 - d. If a higher CPS Plus version was installed, then installation program will reject to run.
- For Depot CPS Plus:
 - 1. Run Setup.exe;
 - 2. If the computer doesn't have .Net 3.5 SP1 framework installed, then the CPS will guide to the Microsoft download website to download and install the .Net framework;



- 3. The different dialog will appeared according whether the computer has installed CPS Plus before:
 - a. If no any CPS Plus was installed, then installation program directly goes into the first installation welcome dialog;
 - b. If a lower CPS Plus version was installed, then installation program will ask whether the customer to upgrade the existed version;
 - c. If a same CPS Plus version was installed, then installation program will prompt the following installation type:
 - i. Modify
 - ii. Repair
 - iii. Remove
 - d. If a higher CPS Plus version was installed, then installation program will reject to run.

How to start working with the CPS Plus:

- With dongle
- The Depot CPS is protected by the hard key.
- Different CPS modes require different hard keys to operate.

2.11.5 KVL

No new operation notes.

2.12 New Terminal Features

To supplement the summarised information in sections 1.1 may find the following information useful.

• No additional operation notes.

2.13 Upgrade/downgrade matrix

Please refer to section 1.2 for MR5.14.10 upgrade/downgrade matrix.

2.14 TIB (Technical Information Bulletin)

Technical Information Bulletins (TIBs) provide important updates on Motorola products', including upgrades, options and revisions, as well as alerts to potential problems and workarounds.

To gain access to TIBs please use the process described in section 2.14.1 below. Once you have been granted access, to view TIBs please log into the TIB Database via MOL (https://emeaonline.motorola.com/). The TIBs can then be accessed through the icon Resource Center / Technical Information Bulletins.

2.14.1 Requirements for Technical Information Bulletin (TIB) Access via MOL

- 3 Steps you need to follow before you get started -

Step 1:

Identify the person(s) within your company's staff that need TIB access.

Step 2:



If not already done so create an **individual** MOL User ID for the above identified person(s) and check the "Access TIB" permissions in the individual user profile.

Note: This is done by your company's MOL administrator.

Step 3:

Send an Email to the TIB Administration Team, Mr. Juergen Feick, Juergen.Feick@motorolasolutions.com, c.c.: dmeredi1@motorolasolutions.com, with the following information:

- Your Company name
- Your Customer number
- The full name(s) of the individuals requiring TIB Access (see Step 1 above)
- The individual MOL user ID(s) of the above (see Step 2 above)

Once the TIB Access has been configured you will receive a notification via Email.

For any questions related to the above steps please contact your Sales Representative or Juergen Feick, Email: Juergen.Feick@motorolasolutions.com,

Tel.: +49 6126 9576 326

2.15 User manuals

User guides may be found at Motorola online (https://moleurope.mot.com/Login.aspx). Having logged in they may be found at the following paths:

2.15.1 Resource Centre > TETRA Terminals > TETRA Generic Literature > Marketing Material

Specification Sheets Brochures Presentations Accessories Catalogue

2.15.2 Resource Centre > TETRA Terminals > TETRA Generic Literature > Generic User Documentation

CPS Start-up Guides Product Information Manual Hardware / Software Cross Reference Matrix Software Release Matrix

2.15.3 Resource Centre > TETRA Terminals > Portable Radios > [specific model] > Manuals

Feature User Guides Quick Start Guides Service Manuals

2.15.4 Resource Centre > TETRA Terminals > Mobile Radios > [specific model] > Manuals

Feature User Guides Quick Start Guides Service Manuals

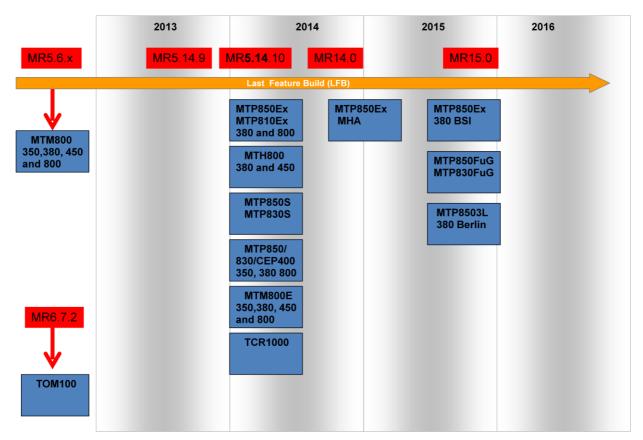
The features introduced in MR5.14.10 are detailed in the Feature User Guides

2.16 Features removed in this Release

None.



2.17 Last Feature Build



With the introduction of Motorola's Tetra Subscriber MR5.14.10 Software Release, notice is hereby issued that the following Tetra Subscriber Models are not planned to benefit from any further Software Feature Enhancements;-

MTH800 - All Bands

MTP850 (encompassing CEP400, MTP850, MTP830, MTP850-3L and MTP850S) - All Bands

MTM800E - All Bands

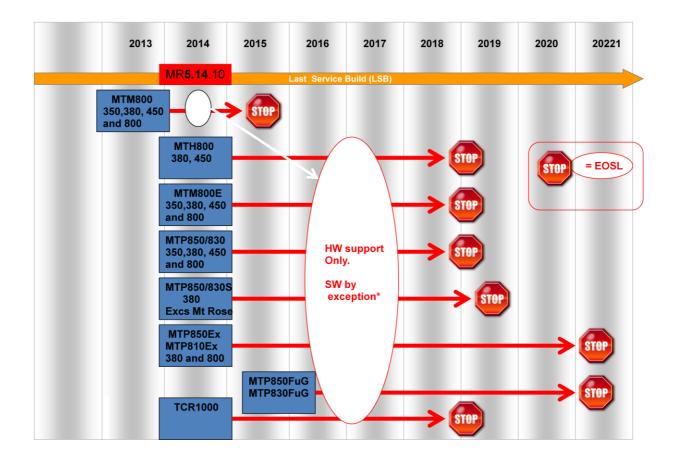
TCR1000

TOM100

The New Generation Subscribers MTM5000, MTP3000 and MTP6000 will support ALL New Features going forward.



2.18 Last Service Build



With the introduction of Motorola's Tetra Subscriber MR5.14.10 Software Release, notice is hereby issued that the following Tetra Subscriber Models will be subject to a *by exception and scheduled* Software Service support with respect to defects. In the absence of any further Service builds MR5.14.10 can be considered the Last Service Build for these products:-

MTH800 - All Bands

MTP850 (encompassing CEP400, MTP850, MTP830, MTP850-3L MTP830S and MTP850S) $\,$ – All Bands

MTM800E - All Bands

TCR1000

TOM100

The New Generation Subscribers, MTM5000. MTP3000 and MTP6000 constitute the future proof solution going forward.

Exception – a Software fix will be approved if the defect constitutes a ATL that is mutually agreed would be equivalent to a Stop Ship, in Maintenance Terms it could be an issue that prevents delivery of a Service Agreement. This exception will also be subject to a mutually agreed implementation schedule and may include additional financial charges.

EOSL – End of Support Life, this is the very end (the proverbial turning off of the lights and closing the door for very last time...) everything goes, spares, batteries, repairs, software downloads...everything!



3 ACCESSORIES

NNTN8459A 1 WIRE SURVEILLANCE KIT WITH TRANSLUCENT TUBE, BLACK Is certified with MR5.14.10 for MPT850S 380MHz

All existing accessories (refer to section 0) are certified with MR5.14.10

3.1 Operation Notes: Savox C-C400 with HC-1

Savox C-C400 with HC-1 headset accessory should be treated as 'PHF' on MTP850S/FuG, MTP830S/FuG terminals. This is configured in the GCAI Lookup Table within the codeplug. The GCAI lookup table is only available in CPS Laboratory Mode and hence the service team (or any other team which has access to Depot CPS) needs to configure radio for customers.

4 Annex - Software enablement kit

With MR5.3 a software Selling mechanism was introduced. This same mechanism applies for MR5.14.10. The chosen approach is a dongle with counters for each one of the features requiring enablement

The features are enabled at the same time the user programs the radio - in one operation

- A dongle is connected to the PC which is used to configure the terminal
- The dongle has a counter for each of the features
- The dongle counters are "charged" as per what the customer has ordered/purchased (e.g. WAP in 100 terminals)
- Every time a feature is enabled in a terminal the dongle counter is decreased for the feature in question

Software Enablement - Example

The following order is entered

- 20 radios
- 10 GPS software options
- 20 ENABLE CELL SELECT BY TALKGROUP software options

This order results in

- 20 radios delivered
- 1 dongle delivered with two counters set to:
 - 10 GPS
 - 20 ENABLE CELL SELECT BY TALKGROUP

The CPS will not allow additional radios to be enabled with GPS nor ENABLE CELL SELECT BY TALKGROUP (unless further SW options are ordered)

5 Annex - CPS Upgrade

Refer to section 2.9.7 Users How-Tos

6 Annex – MR5.14.10 CPS Plus Operating Requirements

6.1.1 Computer Hardware

For single radio programming:

- Processor faster than of 2 GHz single processor
- Two USB 2.0 ports
- 1GB RAM
- 20GB of free HD space
- Drive for reading DVDs



Display resolution of minimum 1024x768

For multiple radio programming:

- Processor fast than 2GHz dual core processor
- At least two USB 2.0 ports
- 2GB RAM
- 20GB of free hard disk space
- Driver for reading DVDs
- Display resolution of 1280x1024

Note: if N radios need programming at the same time then N+1 USB ports are required, N USB ports are for radios and 1 extra port for the dongle.

6.1.2 Computer Operating System

CPS Plus supports the following operating system:

- Windows XP Professional x32 Edition Service Pack 3.
- Windows Vista Business x32 edition, with SP2.
- Windows Vista Ultimate x32, Service Pack 2.
- Windows 7 Professional x86/x64 edition, with SP1.
- Windows 7 Ultimate x86/x64, with SP1.

Notes

- For security of data integrity, we recommend that CPS must run in completely clean PC.
 The programming PC is not recommended to connect to internet and install other applications.
- CPS must be installed by logging in with an account in Administrators Group. After installed the CPS can run under the Power User Group in Windows XP or User Group in Windows Vista and Windows 7.
- Virtual COM Ports are not supported (e.g. the Virtual Comp port created for Bluetooth Device). Go to CPS->Tools->Options->Communications->Serial->Working Ports, uncheck all the virtual ports and only leave the physical COM port.
- For multi-programming through USB, the recommended maximum number of Portable radios which can be programmed simultaneously is <u>12</u> units. The recommended USB Hub is Belkin (Belkin F5U234zh 4 Ports and Belkin F5U237zhAPL-S 7Ports)
- The recommended maximum number of Mobile radios which can be programmed simultaneously is <u>4</u> units. The recommended USB Hub is Belkin(Belkin F5U234zh <u>4</u> Ports and Belkin F5U237zhAPL-S 7Ports)

The following brand PCs have been tested and work well with Tetra Customer CPS Plus:

Desktop/Laptop	Model
HP laptop	8510w
HP laptop	6910P
HP desktop	Dx6120st
HP desktop	Dc5800
Dell Desktop	GX620
Dell Desktop	GX280
HP Desktop	HP6000
HP Desktop	HP6200



7 Annex - CPS Plus User Data Manual.

7.1 CPS Plus User Data File Format

The CPS Plus User Data file is in XML format, and it contains the Microsoft Excel header so that it can be opened and edited by the Microsoft Excel 2003/2007/2010.

7.2 CPS Plus User Data Content Format

The CPS Plus User Data content (the content seen in the Excel, no the raw file content format) is divided into two parts:

- a. Metadata part;
- b. Data part.

7.3 Metadata Part Format

The metadata part has the following content:

CallListNumber < number of the exported list nodes>

CodeplugVersion <exported codeplug version>

ModelNumber <exported radio model number>

LanguageID <|anguageID, the format shall be [two character language code]-[country code]>

An example of the metadata part is:

CallListNumber 95

CodeplugVersion 7365

ModelNumber H60UCN6TZ5ANuni

LanguageID en-US

When importing a user data to a codeplug/profile, the CPS will check the codeplug version, model number and the language ID. If the language ID in the user data is not the same as the target CPS's MMI language, the CPS will reject to importing. And if the user data's codeplug version and model number doesn't match the target codeplug/profile's codeplug and model number, the CPS will prompt a warning message to the customer to identify that the incompatible data may exist, and the customer can choose whether to continue the importing or abort it.

7.4 Data Part Format

```
The data part contains all exported nodes' data and it has the following format pattern:
```

<Node1 section>

<Node2 section>

• • •

<NodeN section>

And each section has the following format:

NodeNumber<Node ID>:<Node GUI full path>

<Column1 header name> <Column2 header name> ... <ColumnM header name>

<Cell (1, 1) value> <Cell (1, 2) value> ... <Cell (1, M) value>

<Cell (2, 1) value> <Cell (2, 2) value> ... <Cell (2, M) value>

<Cell (N, 1) value> <Cell (N, 2) value> ... <Cell (N, M) value>

End of Section Data

The <Cell (x, y) value> means the displayed value at cell with row x and column y in the CPS's right panel (data panel).

The following is the example of data part format:

NodeNumber1808:DMO Parameters -> DMO MNI Partnership List

Country Code Network Code

00

00

00

00

00

00



00

End of Section Data

NodeNumber52:TalkGroups -> TMO -> TMO Scan Lists -> Scan List17 -> Attributes

Field Name Field Value Name Scan List17 Status True

End of Section Data

7.5 User Data Constraints Validation

The CPS Plus will add simple data constraints to the exported user data file. These constraints can be recognized by the Excel and will help the customer to input valid value when editing the user data in the Excel software. The available constraints are:

- 1. If a field is a numeric field, then the CPS will put the value range constraint to it in the user data file;
- 2. If a field is a dropdown list field, then the CPS will put the make it also a dropdown list in the user data file.

Note: Because the constraints in the user data are just simple constraint so it's looser than CPS's full constrains, which means that the customer also need to check the codeplug/profile field's value after the user data get imported.

8 Annex - System Version

The TETRA terminals with MR5.14.10 Software were tested using the following infrastructure:

Dimetra SR- 6.2	Component	Version	Remarks
SwMI	SW	R6.2	
		- NM - R17.01.00.02 + patch	
		R17.02.06.05	
		- ATR/STM - DSTM-06.02.00.19 +	
		DSTM_PATCH-06.02.02.13 +	
		DSTM_PATCH-06.02.02.14	
		- ZC - R06.02.73.07	
		- NMT - DMNM-R17.02.06.04	
		- PDR - R06.02.03_CPX	
		- SDR - R06.02.10	
SC		R06.42.86	
BRC		R06.22.48 (TEA2)	
AIE	Component	Version	Remarks
PrC	Арр	None	Provisioning Centre
	Database	None	
AuC	Арр	R06.02.02.07(App)	Authentication
			Centre
	Database	R06.02.02.07(DB)	
CC	CCC	0302	Crypto Card
	CE	0502	
KVL	SW	R04.01.24	

Dimetra SR-	Component	Version	Remarks
7.1			



Dimetra SR-	Component	Version	Remarks
7.1			
SwMI	SW	R7.1	
		- NM - R71.00.05.07 + DMNM_PATCH-	
		R71.01.10.05	
		- ATR/STM - DSTM-07.01.10.18_X86 +	
		DSTM_PATCH-07.01.00.27	
		- ZC - R07.01.61.03	
		- NMT – DMNM-PATCH-R71.01.10.03	
		- PDR - R07.01.12	
		- SDR - R07.01.05	
SC		R07.31.32	
BRC		R07.31.29 (TEA3)	
AIE	Component	Version	Remarks
PrC	Арр	None	Provisioning Centre
	Database	None	
AuC	Арр	R07.01.01.07(App)	Authentication
			Centre
	Database	R07.01.01.07(DB)	
СС	CCC	0302	Crypto Card
	CE	0502	
KVL	SW	R04.01.24	

Dimetra SR- 8.2	Component	Version	Remarks
SwMI	SW	R8.2	
		- NM – R82.00.04.03	
		- ATR/STM - DSTM-08.02.00.04	
		7C D00 01 10 02	
		- ZC - R08.01.10.03 - NMT – R82.00.04.03	
		- PDR - R08.02.02	
		- SDR - R08.02.01	
SC		R08.42.18	
BRC		R08.22.09 (TEA2)	
AIE	Component	Version	Remarks
PrC	Арр	R08.22.00.09	Provisioning Centre
	Database	R08.22.00.09	
AuC	Арр	R08.22.00.09	Authentication
			Centre
	Database	R08.22.00.09	
CryptR2		R01.01.03	Crypto Device
KVL	SW	R04.01.24	



Cassidian system used in the testing:

- Release 6.0 SCD2.0
- Release 5.5 during test slots in ZPL lab Berlin

9 Annex - Previous Releases

The current version of the software release Matrix may be found on Motorola Online at:

Resource Centre > TETRA Terminals > TETRA Generic Literature > Generic User Documentation

10 Annex - Previous Accessories

MR5.14.10 is certified with the following list of accessories which have been previously ship accepted with earlier releases:

MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
	х	х	х			х	х	х	х				8566504A03_ Short Helix Antenna for MTP850- 350MHz
	х	Х	х			х	Х	х	Х				8575278M01_ 380-430 MHz Stubby Antenna with integrated GPS antenna
	х	х	х			х	Х	х	Х				8575279M01_ 380-430 MHz Whip Antenna with integrated GPS antenna
	x	х	x			x	х	x	x				GMAE4290_ External Roof Antenna with Combined TETRA and GPS 380-430 MHz
	х	х	х			х	х	х	х				GMAD4500_ External Roof Antenna with Combined TETRA and GPS 350 -390 MHz
	х	Х	х			х	Х						8575277M01_ 806-870 MHz Stubby Antenna with integrated GPS antenna
	Х	Х	х			Х	Х						8575276M01_ 806-870 MHz Whip Antenna with integrated GPS antenna
								Х	Х				8586381J10 Antenna HLCL 380-430 MHz 1DBI
Х													8566504A01_ Long coaxial antenna 430-473 MHz combined GPS / TETRA



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0£84TM	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
х													8566504A02_ Short coaxial antenna 430-473 MHz combined GPS / TETRA
х													8586381J10_ UHF Stubby Antenna 380-430MHz
х													8575279M01_ UHF Whip Antenna 380-430MHz
											х	х	GMAE4493_ 350 - 390 MHz Antenna Combined TETRA and GPS
											Х	Х	GMLN4276_ Antenna Mount Panel
											Х	Х	GMLN4277_ Antenna Mount Panel
											Х	Х	GMLN4278_ Antenna Mount Magnetic
											Х	Х	GMAG4251_ GPS Antenna GPS Panel Mount
											Х	Х	GMAG4252_ GPS Antenna GPS Magnetic Mount
											Х	Х	GMAD4494_ 350 - 390 MHz Antenna Glass Mount
											Х	Х	GMAD4495_ 350 - 390 MHz Antenna Panel Mount
											Х	Х	GMAD4496_ 350 - 390 MHz Antenna Magnetic Mount
											Х	Х	GMAD4497_ 350 - 390 MHz Antenna Covert
											Х	Х	GMAD4498_ 350 - 390 MHz Antenna Wall Mount
											Х	Х	GMAD4499_ 350 - 390 MHz Antenna Motorcycle
											Х	Х	GMAD4503_ 350 - 390 MHz Antenna Low Profile
											х	х	GMAE4248_ 380 - 430 MHz Antenna Combined TETRA and GPS
											х	х	GMLN4276_ Antenna Mount Panel



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
											х	Х	GMLN4277_ Antenna Mount Panel
											Х	Х	GMLN4278_ Antenna Mount Magnetic
											Х	х	GMAE4279_ 380 - 400MHz Antenna Whip - Flexible Hinged
											х	х	GMAE4280_ 410 - 430MHz Antenna Whip - Flexible Hinged
											х	х	GMAE4281_ 380 - 430MHz Antenna Whip - Flexible Hinged
											Х	Х	GMAE4282_ 380 - 400MHz Antenna Whip – Hinged
											Х	Х	GMAE4283_ 410 - 430MHz Antenna Whip – Hinged
											Х	X	GMAE4284_ 380 - 430MHz Antenna Whip – Hinged
											Х	Х	GMAG4251_ GPS Antenna GPS Panel Mount
											Х	Х	GMAG4252_ GPS Antenna GPS Magnetic Mount
											Х	Х	GMAE4253_ 380 - 400MHz Antenna Glass Mount
											Х	Х	GMAE4254_ 410 - 430MHz Antenna Glass Mount
											Х	Х	GMAE4255_ 380 - 430MHz Antenna Panel Mount
											Х	Х	GMAE4256_ 380 - 400MHz Antenna Magnetic Mount
											Х	х	GMAE4257_ 410 - 430MHz Antenna Magnetic Mount
											х	х	GMAE4258_ 380 - 400MHz Antenna Covert
											х	Х	GMAE4259_ 410 - 430MHz Antenna Covert
											Х	Х	GMAE4260_ 380 - 400MHz Antenna Low Profile



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
											Х	Х	GMAE4261_ 410 - 430MHz Antenna Low Profile
											Х	х	GMAE4262_ 380 - 400MHz Antenna Wall Mount
											Х	Х	GMAE4263_ 410 - 430MHz Antenna Wall Mount
											Х	Х	GMAE4266_ 380 - 400MHz Antenna Motorcycle
											Х	Х	GMAE4267_ 410 - 430MHz Antenna Motorcycle
											Х	Х	GMAE4269_ 430 - 470 MHz Antenna Combined TETRA and GPS
											Х	Х	GMLN4276_ Antenna Mount Panel
											х	Х	GMLN4277_ Antenna Mount Panel
											Х	Х	GMLN4278_ Antenna Mount Magnetic
											х	Х	GMAE4285_ 430 - 470 MHz Antenna Whip - Flexible Hinged
											Х	Х	GMAE4286_ 430 - 470 MHz Antenna Whip – Hinged
											X	X	GMAG4251_ GPS Antenna GPS Panel Mount
											Х	Х	GMAG4252_ GPS Antenna GPS Magnetic Mount
											Х	х	GMAE4270_ 450 - 470 MHz Antenna Glass Mount
											Х	Х	GMAE4271_ 430 - 470 MHz Antenna Panel Mount
											х	х	GMAE4272_ 430 - 470 MHz Antenna Magnetic Mount
											Х	Х	GMAE4273_ 430 - 470 MHz Antenna Covert
											Х	Х	GMAE4274_ 450 - 470 MHz Antenna Low Profile



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
											Х	Х	GMAE4275_ 430 - 470 MHz Antenna Wall Mount
											х	х	GMAE4268_ 430 - 470 MHz Antenna Motorcycle
											х	х	GMAF4408_ 800 MHz Antenna Combined TETRA and GPS
											Х	Х	GMAG4251_ GPS Antenna GPS Panel Mount
											Х	Х	GMAG4252_ GPS Antenna GPS Magnetic Mount
											Х	Х	GMAF4409_ 800 MHz Antenna Glass Mount
											Х	Х	GMAF4410_ 800 MHz Antenna Glass Mount 3dB
											х	х	GMAF4411_ 800 MHz Antenna Eurobase
											х	х	GMAF4412_ 800 MHz Antenna MAG Mount
											х	х	GMAF4413_ 800 MHz Antenna Magnetic Mount 3dB
											Х	Х	GMAF4414_ 800 MHz Antenna Covert
											Х	Х	GMAF4415_ 800 MHz Antenna Low Profile
											х	х	GMAF4416_ 800 MHz Antenna Wall Mount
											Х	Х	GMAF4417_ 800 MHz Antenna Motorcycle
x	х	х	х										PMLN5139_ 1-wire Quick Disconnect Black w/eartip. Replaces FTN6596
X	х	Х	Х										PMLN5145_ 1-wire Quick Disconnect Rx only with short coiled cord for shoulder worn terminals. Beige w/eartip.
х	Х	Х	х										PMLN5141_ 3-wire Quick



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0884LW	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
													Disconnect Beige w/eartip. Replaces FTN6595
х	х	х	х										PMLN5143_ 3-wire kit Quick Disconnect with separate Microphone and PTT. Black with Eartip.
Х	Х	Х	Х										FTN6580_ Audio Jack Adaptor (iden) x10
x	х	Х	х										PMLN4605_ Acoustic Tube for use with 2 wire kit FTN6707
Х	Х	Х	Х										PMLN5178_ Black XLOUD Earphone Element
Х	Х	Х	Х										PMLN5177_ Beige XLOUD Earphone Element
Х	Х	Х	х										PMLN5561_ Bone Conductive Ear Mic
х	х	Х	х										FTN6582 Breeze headset w/ boom microphone and in-line Push-To-Talk
Х	Х	Х	х										PMLN5140_ D-shell Large (over the ear) earpiece
Х	Х	Х	х										PMLN5147_ D-shell Small (over the ear) earpiece
	х	Х	х										AARLN4885_ Earbud with 3.5mm Plug - APAC region
х	х	Х	х										RLN6230_ Earplugs Foam with Acoustic Tube (replaces NTN8370)
	х	Х	х										PMMN4066_ Noise Cancelling Remote Speaker Microphone
х	х	х	х										SMN4095D_ Passive Microphone with Micro Molex Connector
х	х	х	x										FTN6583 Personal Hands free kit (ear bud with in-line microphone and Push-To- Talk)



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MTH800	0E84IW	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0£84LM	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
	x	X	x										PMMN4015_ Remote Speaker Microphone with emergency button and 3.5 mm audio jack
Х	Х	Х	х										RLN6232_ Rubber Eartip/Acoustic Tube Black. Replaces NTN8371
	Х	Х	х										SSN4020B_ Standard Speaker with Micro Molex Connector
х	х	х	х										FTN6707 Surveillance kit - 2 wire earpiece with combined microphone and Push-To- Talk
	Х	Х	х										PMMN4057_ Small IP54 RSM without Earjack
х	х	Х	х										PMLN5271A_ TETRA Large D-Shell with In Line Mic and PTT
х	Х	Х	х										PMLN5272A_ TETRA Small D-Shell with in line mic and PTT
х	Х	Х	х										PMLN5273A_ TETRA Large D-Shell Earpiece for RSM
х	Х	Х	х										PMLN5274A_ TETRA Small D-Shell Earpiece for RSM
	Х	Х	х										RLN6242_ Quick Disconnect Replacement Acoustic Tube
х	Х	Х	х										PMLN5641A 2-wire Surveillance kit with Acoustic Tube, Beige
х	х	х	х										PMLN5642A 2-wire Surveillance kit with Acoustic Tube, Black
х	x	X	x	x	x	x	x	x	x	X	х	x	5666532A01_ Motorola branded bag, nylon, black (to contain personal audio earpiece kits)
Х													FTN6583_ Personal Hands Free (PHF) kit with PTT



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
х													PMMN4016_ Remote Speaker Microphone with emergency button and 3.5 mm audio jack
Х													PMLN5414_ Quick disconnect Tube Assembly Black
Х													PMLN5415_ Quick disconnect Tube Assembly Beige
х	х	Х	Х	Х	Х	Х	Х	Х	Х				MDRLN4885_ Earbud with 3.5mm Plug
х	х	Х	Х	Х	Х	Х	X	Х	Х				MDRLN4941_ Receive Only earpiece with translucent tube for RSM
						Х	Х	Х	Х				RMN5058_ Core L/W headset
						Х	х	Х	х				WADN4190_ Ear Receiver with Coiled Cable and 3.5mm Plug
						х	х	Х	х				PMMN4062_ Impres Remote Speaker Mic, NC, Emergency Button, 3.5mm
						Х	Х	Х	Х				PMMN4046_ Impres Speaker mic w/vol, IP57
						Х	Х	Х	Х				PMMN4050_ Impres RSM, NC
						х	х	Х	х				PMMN4025_ Impres RSM
						Х	Х	Х	Х				RLN4941_ Rec Only Earpiece w/Translucent Tube
						х	Х	Х	х				PMMN4040_ Submersible RSM
						х	Х	х	х				RLN5878_ Surveillance kit Core 1 Wire Black
			_	_	_	Х	х	Х	х				RLN5879_ Surveillance kit Core 1 Wire Beige
				_		х	х	х	х			_	PMLN5101_ Impres Temple Transducer
						х	Х	Х	х				RLN5883_ Smart 2 Wire



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0£84TM	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													w/Translucent Tube Beige
						Х	Х	Х	Х				RLN5882_ Smart 2 Wire w/Translucent Tube Black
						Х	X	X	X				RLN5886_ Surveillance Low Noise Kit
						Х	Х	Х	Х				RLN5887_ Surveillance High Noise Kit
						х	Х	х	Х				PMLN5111_ Impres 3 Wire w/Translucent Tube Black
						Х	х	Х	Х				PMLN5112_ Impres 3 Wire w/Translucent Tube Beige
						х	х	Х	Х				RMN5120A SAVOX C-C400 Non-ATEX Large PTT
						х	х	х	х				RMN5121A SAVOX C-C400 Non-ATEX Emergency Button
				Х	Х	Х	Х	Х	Х				RMN5123A SAVOX HC1 Headset ATEX
						Х	Х	Х	Х				PMLN5102_ Breeze Lightweight Headset
	х	Х	Х										FTN6573_ 1 Standard capacity battery, 950 mAh, Lilon
	х	Х	Х										FTN6573AC_1 Standard capacity battery, 950 mAh, Lilon (for China)
	х	Х	Х										FTN6573AK_ 1 Standard capacity battery, 950 mAh, Lilon (for Korea)
	х	Х	Х			х	х	Х	Х				FTN6574_ Ultra high capacity battery, 1850 mAh, Lilon
	х	Х	Х			х	х	х	х				PMNN4351B Ultra high capacity battery, 1850 mAh, Lilon
	х	Х	х			х	х	х	Х				FTN6574BC Ultra high capacity battery, 1850 mAh, Lilon (for China)
	х	Х	Х			х	Х	Х	Х				FTN6574BK Ultra high



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													capacity battery, 1850 mAh, Lilon (for Korea)
х													0188809V59_ 1500 mAh battery door
х													NNTN6923_ Extended battery, 1500 mAh, Lilon
	х	Х	х			х	Х	х	х				RLN5934_ PMMN4015 Remote Speaker Mic Replacement Cable Kit
Х	х	Х	х			х	X	Х	Х				FLN9636_ Programming cable
х	х	Х	х			х	X	Х	Х				PMKN4025_ RS-232 Data cable - replacing FKN4897
х	Х	Х	х			Х	X	Х	Х				PMKN4026_ USB cable - replacing NNTN4007
												Х	3071810M01 MTM800 rear accy conn USB Prog Cable
												Х	GMKN4067_ Programming cable (RIBless)
												Х	HKN6184_ USB control head programming cable
												Х	GMKN1022_ Active Data Cable
												Х	GKN6270_ all Battery power cable 3m, 10A fuse AWG 12,
												Х	GKN6274_ all Battery power cable 3m, 10A fuse AWG 12,
												Х	GPN6145_ all Desktop power supply
												Х	NTN7373AR all Linecord US (3060665A04) packaged
												х	NTN7374AR all Linecord Euro (3060665A05) packaged
												Х	NTN7375AR all Linecord UK (3002120F02) packaged
												х	GKN6266_ all Power cable (power supply to desktop mob.)



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0E84LW	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
												Х	PMKN4030_ all 2.3 metre M/C Control Head cable
												х	RKN4077_ all 3 metre Remote mount cable
												Х	RKN4078_ all 5 metre Remote mount cable
												Х	RKN4079_ all 7 metre Remote mount cable
												Х	PMKN4020_ all 10 metre Remote mount cable
х	Х	Х	х			х	Х	Х	Х				HLN9844_ Belt Clip (short, 1.5")
	х	х	х			х	х	х	х				PMLN5616_ Belt Clip (2")
Х	Х	Х	Х			х	Х	Х	Х				HLN9714 _ Belt Clip (long, 2.5")
	х	Х	х										RLN5717_ Belt worn hard leather case with swivel belt loop
	х	X	х										RLN5718_ Belt worn nylon holster with fixed 3" belt loop
	х	Х	х										RLN5719_ Belt worn soft leather carry case with swivel 3" belt loop
	х	Х	х										RLN5720_ Belt worn soft leather carry case with integrated belt clip
	Х	X	Х			х	X	Х	Х				GMLN4488_ Belt Clip for MTH800 Click fast
	Х	Х	Х			х	Х	Х	Х				GMDN0566AC Belt Loop Dock
	Х	Х	Х			Х	Х	Х	Х				GMDN0445AC Peter Jones Loop w/Dock
	х	Х	х			х	Х	Х	Х				GMDN0547_ Double Tongue Tag Dock
	х	Х	х			х	Х	Х	Х				GMDN0497_ Dock 02 FOR 38MM Belt
	х	х	х			х	х	х	х				5666532A01 Nylon Bag for Audio Bundle



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
	Х	Х	х			Х	Х	Х	Х				WALN4307_ Peter Jones Screw On Dock
	х	Х	х										RLN5722_ Replacement swivel belt loop
	Х	Х	Х										RLN5889_ Replacement T- strap
	Х	Х	Х			Х	Х	Х	Х				NTN5243_ Shoulder Strap
	х	Х	х			х	Х	Х	х				RLN5721_ Soft Leather Pouch
	Х	Х	х			Х	Х	Х	х				GMDN0386_ SEW-ON Dock, Bulk, Peter Jones
	х	Х	х			х	Х	Х	х				GMDN0445AA Peter Jones RSM Tag
Х	х	Х	х			х	х	Х	х				HLN9767_ Wrist Strap
	х	Х	х										PMLN5004 Shoulder Wearing Device
Х													FTN6302_ Bracket with U-slot (for use with belt clip)
Х													RLN4892_ Hard leather case with swivel 2.5" belt loop
Х													GMDN0445_ Peter Jones Belt Loop Dock low hang
Х													GMDN0566_ Peter Jones Belt Loop Dock
Х													GMDN0497_ Peter Jones Dock 02 for 38MM Belt
Х													GMDN0547_ Peter Jones Dock for Uniform Tag
Х						Х	Х	Х	Х				GMDN0386_ Peter Jones SEW-ON Dock
Х													FTN6355_ Shoulder wearing device with stud
х		_			_			_					RLN4891_ Soft leather carry case with swivel 2.5" belt loop
	х	X	х			х	Х	X	X				GMNN4684_ 12 Way Battery Charger UK only



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
Х	Х	Х	Х			Х	Х	Х	Х	Х			NNTN6847_ Base unit only
	Х	Х	х			Х	Х	Х	х				FTN6575_ Dual pocket desktop charger base
	х	Х	х			х	Х	х	х				NNTN6848_ KIT,USB RADIO POCKET INSERT - MTP850
	Х	Х	х			Х	Х	Х	х				NNTN6849_ KIT,USB 6- PACK RP INSERT - MTP850
	х	Х	х			х	Х	х	х				NNTN6901_ Multi-unit charger 6 Radio pockets with UK cord
	х	х	х			х	Х	х	х				NNTN6907_ Multi-unit charger 6 Battery pockets with UK cord
	х	Х	х			х	Х	х	х				NNTN6900_ Multi-unit charger 6 Radio pockets with Euro cord
	х	х	х			х	Х	х	х				NNTN6908_ Multi-unit charger 6 Battery pockets with Euro cord
	х	х	х			х	Х	х	х				NNTN6903_ Multi-unit charger 6 Radio pockets with Australia cord
	х	х	х			х	Х	х	х				NNTN6902_ Multi-unit charger 6 Radio pockets with Argentina cord
	х	х	х			х	Х	х	х				NNTN6909_ Multi-unit charger 6 Battery pockets with Australia cord
	х	х	х			х	Х	х	х				NNTN6904_ Multi-unit charger 6 Radio pockets with US cord
	х	х	х			х	х	х	х				NNTN6911_ Multi-unit charger 6 Battery pockets with US cord
	х	х	х			х	х	х	х				NNTN6910_ Multi-unit charger 6 Battery pockets with Argentinian cord
	Х	Х	х			Х	Х	Х	х				NNTN6899_ Multi-unit charger 6 Radio pockets with



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													Kor cord
	х	х	х			х	х	х	х				NNTN6906_ Multi-unit charger 6 Battery pockets with Kor cord
	х	Х	х			Х	Х	х	Х				NNTN7001_ Multi-unit charger 6 Radio pockets with Chinese cord
	х	Х	х			Х	Х	х	Х				NNTN7000_ Multi-unit charger 6 Battery pockets with Chinese cord
	х	Х	х			Х	Х	х	Х				NNTN7024_ MTP850 6POCKET USB PROG CHARGER EU
	х	Х	х			Х	Х	х	Х				NNTN7025_ MTP850 6POCKET USB PROG CHARGER UK
	х	Х	х			Х	Х	х	Х				NNTN7026_ MTP850 6POCKET USB PROG CHARGER US
	х	Х	х			Х	Х	х	Х				NNTN7027_ MTP850 6POCKET USB PROG CHARGER AR
	х	Х	х			Х	Х	х	Х				NNTN7029_ MTP850 6POCKET USB PROG CHARGER KOR
	х	х	х			х	х	х	х				NNTN7028_ MTP850 6POCKET USB PROG CHARGER AUS
	Х	Х	Х			Х	Х	х	Х				NNTN7961A 12-24 way Multi-unit charger dual Battery Radio pockets with Euro cord
Х	Х	Х	х			Х	Х	Х	Х	Х			SYN7456_ Plug adapter EU for travel charger NNTN4250
Х	х	х	х			х	х	х	х	х			SYN7455_ Plug adapter UK for travel charger NNTN4250
	х	х	х			х	х	х	х				SYN7460_ Plug adapter Korean for travel charger NNTN4250



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
	х	Х	х			х	х	Х	х				SYN8039_ Plug adapter Argentina for travel charger NNTN4250
	х	х	х			х	Х	Х	Х				SYN8127_ Plug adapter Australian/New Zealand for travel charger NNTN4250
	х	х	х			х	х	х	х				NNTN5842_ Rapid travel charger kit including Argentina plug (contains NNTN4250 and SYN8039)
	х	Х	х			Х	Х	Х	Х				NNTN6845_ Replacement radio pocket insert for multi- unit charger
	х	х	х			х	Х	Х	Х				NNTN6846_ Replacement battery pocket insert for multi-unit charger
	Х	Х	Х			Х	Х	Х	Х				NNTN7560_ TETRA base tray for iTM
х	х	Х	х			Х	Х	Х	Х				WALN4092_ Travel charger kit (includes UK and Euro adapters)
	х	х	х			х	х	х	х				PMLN5578_ Vehicular Charging Cradle (with power cable)
	Х	Х	Х			Х	Х	Х	Х				NNTN6844_ Wall mount bracket for multi-unit charger
х													GMNN4216_ 12 Way Battery Charger UK only
Х													FTN6306_ Dual pocket desktop charger base (requires travel charger WALN4092)
Х													1587845S02 Insert for dual pocket desk top charger
Х													NNTN6912_ Multi-unit charger 6 Radio pockets with UK cord
х													NNTN6916_ Multi-unit charger 6 Battery pockets



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													with UK cord
х													NNTN6913_ Multi-unit charger 6 Radio pockets with Euro cord
х													NNTN6918_ Multi-unit charger 6 Battery pockets with Euro cord
Х													NNTN6915_ Multi-unit charger 6 Radio pockets with US cord
Х													NNTN6920_ Multi-unit charger 6 Battery pockets with US cord
Х													NNTN6914_ Multi-unit charger 6 Radio pockets with Argentinian cord
x													NNTN6919_ Multi-unit charger 6 Battery pockets with Argentinian cord
х													NNTN6899_ Multi-unit charger 6 Radio pockets with Korean cord
х													NNTN6998_ Multi-unit charger 6 Radio pockets with Chinese cord
х													NNTN6999_ Multi-unit charger 6 Battery pockets with Chinese cord
Х													WPLN4175_ Multi- Unit Charger (Euro) 6 x Dual Pocket desktop
Х													WPLN4176_ Multi- Unit Charger (U.K) 6 x Dual Pocket desktop
Х													WPLN4177_ Multi- Unit Charger (U.S) 6 x Dual Pocket desktop
х													NNTN7730_ Multi-unit charger 6 pockets USB Prog. Charger w/ Euro cord



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
х													NNTN7731_ Multi-unit charger 6 pockets USB Prog.Charger w/ UK cord
х													NNTN7732_ Multi-unit charger 6 pockets USB Prog. Charger w/ US cord
х													NNTN7733_ Multi-unit charger 6 pockets USB Prog. Charger w/ Argentinian cord
Х													NNTN7734_ Multi-unit charger 6 pockets USB Prog. Charger w/ Australian cord
Х													NNTN7735_ Multi-unit charger 6 pockets USB Prog. Charger w/ Korean cord
х													NNTN7006_ Replacement radio pocket insert for multi-unit charger
													drint orlanger
х													NNTN7558_ Travel charger (power supply only) - replacing NNTN4250
Х													NNTN7010_ USB Radio Pocket Insert
х													NNTN7011_ USB 6-Pack Radio Pocket Insert
х													NNTN6844_ Wall mount bracket for 6 radio/battery pocket multi-unit charger
х													RLN5643_ Wall mount bracket for 6 dual pocket desktop multi-unit chargers
	х	х	х										FKN4919_ DCK Power Cable



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
	х	х	х										FLN3119_ DCK Junction box
	х	х	х										FTN6376_ DCK Mounting bracket
	х	Х	х										GMLN4687_ Digital Car Kit (DCK) includes Cradle, Junction box, Visor
	х	Х	Х										Mic, PTT, Brackets and Cables
	Х	X	Х										GMLN4688_ MTP850 Cradle only
	Х	Х	Х										FLN9469_ Vehicle Power Adapter
	Х	X	X			х	X	Х	Х				PMLN5585_ Passive Radio Holder Cradle
Х													FTN6790_ DC Adapter
Х													GMAE4264_ Duplex Filter
х													FTN6307_ Hands-free Digital Car Kit (including cradle, junction box, remote speaker mic, and PTT)
Х													GMAE4290_ Rooftop Combined GPS/TETRA Antenna Kit,
х													GMAE4293_ Rooftop Combined GPS/TETRA Antenna Kit, 430-470 MHz.
х													FLN9469_ Vehicle power adapter
	х	Х	Х			х	Х	х	х				FTN6905_ Antenna RF Adapter
	Х	Х	Х			Х	Х	Х	Х				FTN6790_ DC Adapter Module
	Х	Х	Х			х	Х	Х	х				GMAE4264_ Duplexer Module
	х	Х	Х			х	Х	Х	х				FLN9571_ Remote PTT
												х	GMRG4219_ all Milan II GPS Upgrade Kit
											Х	Х	GMUN1006_ all Telephone



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0E84LW	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
													style handset kit (Telco
												Х	PMKN4029_ all 2.3 metre acc. expansion cable
												Х	PMKN4056_ all 4 metre acc. expansion cable
												Х	PMLN5094_ all DIN Mounting kit
												Х	PMLN5093_ all DIN trunnion for enhanced control head
												Х	PMLN4912_ all Standard remote mount trunnion kit
												Х	PMLN5092_ all Trunnion for enhanced M/C control head
												Х	HLN9457_ all Accessory Connector Kit
												Х	GMBN1021_ all Accessory connector kit
												X	GLN7326_ all Desktop tray with loudspeaker
												Х	GLN7318_ all Desktop tray without loudspeaker
												X	GKN6272_ all External alarm relay
												X	GLN7317_ all High Profile Mounting Trunnion
												Х	HKN9327_ all Ignition Switch Cable
												X	RLN4779_ all Key Lock Mounting Kit
												х	GLN7324_ all Low Profile Mounting Trunnion
												х	GMKN4194_ all 2 metre cable from MTM800 to junction box
												х	GMKN4193_ all 4 metre cable from MTM800 to junction box
												х	GMKN4192_ all 6 metre cable from MTM800 to



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
													junction box
												х	GMLN3002_ all Junction Box
												х	RLN4823BA all Option Board Installation Kit
												Х	RLN4823_ all Option Board Installation Kit
												Х	5466516B01 all Tamper Evident Label
											Х	Х	GMSN4078_ all Compact external speaker 5 watts
											Х	Х	GMSN4066_ all External speaker 13 watts
												Х	GMKN4084_ all Speaker extension cable
												х	RMN5107_ all Compact Fist microphone
												Х	RMN5106_ all Desktop microphone
											х	х	RMN5069_ all Desk microphone (Telco connnector)
											Х	х	GMMN4063_ all Heavy Duty Fist microphone (Telco connector)
												х	NNTN7214_ all Hardware Kypad Telephone Handset Kit
												Х	RMN5111_ all Heavy Duty Fist microphone
												х	HLN7016_ all Front Head Connector Telephone Style Handset
												х	NNTN7232_ all Keypad Telephone Handset Bracket Kit
												х	01015001001 3 all Toroid EMC Suppression Kit



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
												Х	GMMN4065_ all Visor microphone
												Х	GMWN4600_ all Next Generation M/C control head English
												Х	GMWN4601_ all Next Generation M/C control head Chinese
												х	GMWN4602_ all Next Generation M/C control head Korean
												х	GMWN4603_ all Next Generation M/C control head Arabic
												х	GMWN4604_ all Next Generation M/C control head BoPoMoFo
												х	GMWN4605_ all Next Generation M/C control head Cyrillic
												х	GMWN4607_ all Next Gen. remote mount contr head Hungarian
												Х	RLN4836AR all External PTT with Emergency footswitch
												Х	RLN4858_ all Gooseneck
												х	RLN4857_ all Pushbutton
												Х	GMWN4298_ all Next Gen. standard control head English
												х	GMWN4299_ all Next Gen. standard control head Chinese
												Х	GMWN4300_ all Next Gen. standard control head Korean
												Х	GMWN4301_ all Next Gen. standard control head Arabic
												Х	GMWN4302_ all Next Gen. standard control head



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													BoPoMoFo
												Х	GMWN4303_ all Next Gen. standard control head Cyrillic
												Х	GMWN4608_ all Next Gen. standard control head Hungarian
												Х	GMWN4304_ all Next Gen. remote mount control head English
												х	GMWN4305_ all Next Gen. remote mount control head Chines
												х	GMWN4306_ all Next Gen. remote mount control head Korean
												х	GMWN4307_ all Next Gen. remote mount control head Arabic
												Х	GMWN4308_ all Next Gen. remote mount contr head BoPoMoFo
												Х	GMWN4606_ all Next Gen. remote mount contr head Hungarian
												Х	GMWN4309_ all Next Gen. remote mount control head Cyrillic
												Х	PMLN4908_ all Data expansion control head
												х	PMLN4904_ all Remote head
												х	NNTN7443_ all CMCIA UCM-M Upgrade Card
												х	GMLN4562_ all MACE UCM Upgrade Kit
										х			PMLN5167_ Analogue Earpiece with Squelch - Beige
										Х			PMLN5168_ Analogue Earpiece with Squelch -



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													Brown
										Х			GMLN5261A Phonito Nano Earpiece - Beige
										X			GMLN5262A Phonito Nano Earpiece - Brown
										х			PMLN5171_ Set of 15 waxtraps for use with PMLN5167 and PMLN5168
										Х			PMLN5169_ Inductive patch with microphone
										Х			PMLN5170_ Inductive loop 28" with microphone
										Х			PMLN5343_ Remote Control Unit wired
										х			PMKN4121A 825 mm Audio and 1725 mm Remote Control Unit cable
										Х			PMKN4043_ 140 mm Audio and 520 mm Remote Control Unit cable
										Х			PMKN4062_ 140 mm Audio and 850 mm Remote Control Unit cable
										х			PMKN4063_ 140 mm Audio and 1200 mm Remote Control Unit cable
										х			PMKN4064_ 140 mm Audio and 1550 mm Remote Control Unit cable
										Х			PMKN4082_ Audio extension cable 350 mm
										Х			PMKN4083_ Audio extension cable 700 mm
	х	Х	Х	Х	Х	х	Х	Х	х	Х			PMKN4025_ RS-232 data cable
	х	х	х	х	х	х	х	х	х	х			PMKN4026_ USB data cable
										х			PMKN4077_ Key Variable Loader cable
										Х			PMLN5295_ Full body vest -



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													Black, Size: XL
										X			PMLN5294_ Full body vest - White, Size: XL
										Х			PMLN5246_ Full body vest - Black, Size: L
										Х			PMLN5243_ Full body vest - White, Size: L
										Х			PMLN5297_ Full body vest - Black, Size: M
										Х			PMLN5296_ Full body vest - White, Size: M
										Х			PMLN5299_ Full body vest - Black, Size: S
										Х			PMLN5298_ Full body vest - White, Size: S
										Х			PMLN6255A Vest D3 left- hand side - White, Size: S
										Х			PMLN6268A Vest D3 left- hand side - White, Size: M
										X			PMLN6264A Vest D3 left- hand side - White, Size: L
										Х			PMLN6262A Vest D3 right- hand side - Black, Size: S
										Х			PMLN6263A Vest D3 right- hand side - Black, Size: M
										X			PMLN6272A Vest D3 right- hand side - Black, Size: L
										Х			PMLN6273A Vest D3 right- hand side - White, Size: S
										х			PMLN6274A Vest D3 right- hand side - White, Size: M
										х			PMLN6275A Vest D3 right- hand side - White, Size: L
										х			PMLN6276A Vest D3 left- hand-side - Black, Size: S
										Х			PMLN6277A Vest D3 left- hand-side - Black, Size: M
										Х			PMLN6278A Vest D3 left-



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0884LW	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													hand-side - Black, Size: L
										Х			PMLN5301_ Shoulder harness - Black, Size: XL
										Х			PMLN5300_ Shoulder harness - White, Size: XL
										Х			PMLN5245_ Shoulder harness - Black, Size: L
										Х			PMLN5244_ Shoulder harness - White, Size: L
										Х			PMLN5303_ Shoulder harness - Black, Size: M
										Х			PMLN5302_ Shoulder harness - White, Size: M
										Х			PMLN5305_ Shoulder harness - Black, Size: S
										Х			PMLN5304_ Shoulder harness - White, Size: S
										Х			PMLN6265A Shoulder harness right - White, Size: S
										X			PMLN6266A Shoulder harness right - White, Size: M
										Х			PMLN6267A Shoulder harness right - White, Size: L
										Х			PMLN6269A Shoulder harness left - White, Size: S
										Х			PMLN6256A Shoulder harness left - White, Size: M
										Х			PMLN6257A Shoulder harness left - White, Size: L
										Х			PMLN6279A Shoulder harness right - Black, Size: S
										Х			PMLN6280A Shoulder harness right - Black, Size: M
										Х			PMLN6281A Shoulder harness right - Black, Size: L
										Х			PMLN6282A Shoulder harness left - Black, Size: S



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MTH800	MTP830	CEP400	0584TM	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	S0£84TM	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
										Х			PMLN6283A Shoulder harness left - Black, Size: M
										Х			PMLN6270A Shoulder harness left - Black, Size: L
										Х			PMLN6258A Thigh harness - Black, Size: S
										Х			PMLN6259A Thigh harness - Black, Size: M
										Х			PMLN6260A Thigh harness - Black, Size: L
										Х			PMLN6261A Thigh harness - Black, Size: XL
										Х			PMLN6271A Calf harness - Black, Size: Universal
										Х			PMLN5348ASP01 Calf harness fat pocket - Black
										Х			SNN5784_ BK60 Standard Lilon battery for transceiver
										х			PMNN4411A Standard Lilon battery for transceiver CE:2006 compliant,
										Х			PMNN4084_ EB9mm battery for Extension Battery Module
										Х			PMHN4112_ Battery carrier lid for TCR1000 Radio Unit
										Х			PMLN5268_ Extension Battery Module with 100mm cable
										Х			(including Battery carrier and EB9mm battery)
										х			PMHN4110_ Extension Battery Module Battery Carrier
										х			PMLN5344_ Flexible Strap to suspend Extension Battery Module beneath
										х			TCR1000 Radio Unit (attached to PMLN5268)
										Х			SPN5394_ Battery-only



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
													charger (cradle)
										Х			SYN1630_ Vehicle receptacle for battery-only charger - SPN5394
										х			PWRS-14000-273R Indoor Power Supply 5VDC .85A USB for AU-HK for batteryonly
										х			PWRS-14000-275R Indoor Power Supply 5VDC .85A USB for EU-UK for batteryonly
										Х			NNTN7558_ Power supply for WALN4092A - use with SYN7455 and
										Х			PMAE4057_ Double loop body-worn antenna 380–430 Mhz
										Х			PMAE4058_ Double loop body-worn antenna 380–430 Mhz with GPS
										Х			PMAE4059_ Flex dribble whip antenna 380–430 Mhz with GPS
										Х			PMAE4060_ Folded semirigid antenna 380–430 Mhz with GPS
				Х	Х								NNTN7383A ATEX Li-lon Battery BVS 08 ATEX E 097
				Х	х								PMLN5287A Hard Leather Case, Black See radio certificates
				х	х								PMLN5288A Soft Leather Case, Black See radio certificates
				х	х								PMLN5004A Shoulder Wearing Device See radio certificates
				х	х								PMLN5134A Belt Clip (2.5 inch) See radio certificates



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MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
				Х	х								NTN5243A Shoulder Strap See radio certificates
				х	х								PMMN4058A Remote Speaker Microphone with
				х	х								PMLN5389A Over the Head Heavy-duty Headset BVS 08 ATEX E 160
				х	х								PMLN5390A Behind the Head Heavy-duty Headset BVS 08 ATEX E 160
				х	х								PMLN5391A Over the Head Lightweight Headset BVS 08 ATEX E 160
				х	х								PMLN5392A Behind the Head Lightweight Headset BVS 08 ATEX E 160
				Х	х								PMMN4063A Throat Microphone with 80 mm PTT
				Х	х								85007012001 Short Stubby Antenna, 380–430 MHz See radio certificates
				х	х								8587526V14 Medium Stubby Antenna, 380–430 MHz See radio certificates
				Х	х								8575279M01 Whip Antenna, 380–430 MHz See radio certificates
				х	х								85012000001 Whip Antenna, 806–870 MHz See radio certificates
				х	х								8575277M02 Stubby Antenna, 806–870 MHz See radio certificates
				х	х								PMLN5419A Dust Cover See radio certificates
				х	х								WPLN4199B Impres™ Single Unit Charger – Base Only
				Х	Х								WPLN4182A Impres™ Single Unit Charger – US



	1		I	1	1							1	1
MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													Plug
				Х	Х								WPLN4183A Impres™ Single Unit Charger – UK Plug
				х	х								WPLN4184A Impres™ Single Unit Charger – EU Plug
				Х	Х								WPLN4185A Impres™ Single Unit Charger – Australia Plug
				х	х								WPLN4186A Impres™ Single Unit Charger – Argentina Plug
				Х	Х								NNTN7471A Impres™ Single Unit Charger – Korea Plug
				Х	Х								WPLN4197A Impres™ Multi Unit Charger – Base Only
				Х	Х								WPLN4187A Impres™ Multi Unit Charger – US Cord
				Х	Х								WPLN4189AA Impres™ Multi Unit Charger – EU Cord
				Х	Х								WPLN4188AA Impres™ Multi Unit Charger – UK Cord
				х	х								WPLN4190A Impres™ Multi Unit Charger – Australia Cord
				х	х								WPLN4191A Impres™ Multi Unit Charger – Argentina Cord
				х	х								WPLN4205A Impres™ Multi Unit Charger – International (110 V)
				Х	Х								WPLN4146A Impres™ Multi Unit Charger – Korea Cord
				х	х								WPLN4198A Impres™ Multi Unit Charger with Display – Base Only
				х	х								WPLN4192A Impres™ Multi Unit Charger with Display –



			1		I							1	
MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	008MTM	MTM800E	Accessory
													US Cord
				х	х								WPLN4194AA Impres™ Multi Unit Charger with Display – EU Cord
				х	х								WPLN4193AA Impres™ Multi Unit Charger with Display – UK Cord
				х	х								WPLN4195A Impres™ Multi Unit Charger with Display – Australia Cord
				х	х								WPLN4196A Impres™ Multi Unit Charger with Display – Argentina Cord
				х	х								WPLN4204A Impres™ Multi Unit Charger with Display – International (110 V)
				х	х								WPLN4145A Impres™ Multi Unit Charger with Display – Korea Cord
				х	х								PMLN5198A Impres™ Single Unit Charger – SMPS US AC Cord
				х	х								PMLN5194A Impres™ Single Unit Charger – SMPS UK AC Cord
				х	х								PMLN5188A Impres™ Single Unit Charger – SMPS EU AC Cord
				х	Х								PMLN5214A Impres™ Single Unit Charger – SMPS Argentina AC Cord
				х	X								PMLN5199A Impres™ Single Unit Charger – SMPS Australia/NZ Cord
				х	Х								NNTN7470A Impres™ Single Unit Charger – SMPS China Cord
				х	X								MDRLN4883BSP01_(generic portfolio) Non Impres™ Vehicular Travel Charger



MTH800	MTP830	CEP400	MTP850	MTP850Ex	MTP810Ex	MTP850S	MTP850FUG	MTP830S	MTP830FUG	TCR1000	MTM800	MTM800E	Accessory
													with Cigarette Lighter
				х	Х								RLN5233ASP01 (generic portfolio) Non Impres™ Vehicular Charger
				х	Х								PMLN5237A RS232 Data Cable
				X	X								PMLN5235A USB Data Cable
						Х	Х	Х	Х				PMLN5653A Bone conduction ear mic
						Х	Х	Х	Х				PMLN6124A IMPRES 3-Wire beige Surveillance Kit
						Х	Х	Х	Х				PMLN6123A IMPRES 3-Wire black Surveillance Kit
						х	х	х	х				PMLN6125A One-Wire black Surveillance Kit
						Х	х	Х	х				PMLN6126A One-Wire beige Surveillance Kit
						Х	Х	Х	Х				PMLN6129A IMPRESS two- Wire black Surveillance Kit
						Х	Х	Х	Х				PMLN6130A IMPRESS two- Wire beige Surveillance Kit
						х	Х	х	Х				PMLN6624A Temple Transducer
						Х	Х	Х	Х				PMLN6634A Light Weight Headset
						Х	Х	Х	Х				PMLN6406A Heavy Duty Headset

11 Annex - New Codeplug Fields

MR5.14.10 / MR10.6.10 provides the following new codeplug fields



			Codeplug			
51.15	Codeplug Parameter		Parameter Default	Codeplug		Selling
Platform MTM5000 Series,	Name	Codeplug Parameter Path	Setting	Parameter range	Codeplug Parameter Purpose If enabled, this field activates the Shadow Groups (Address Bundle) functionality. The Shadow Groups (Address Bundle) feature allows the configuration of radios to send status messages/emergency alarms, GPS LIP messages, and RMS/FMS messages to up to four different addresses per talkgroup when in TMO, and to one address per talkgroup	feature
MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex		Feature Flags->Shadow Groups			when in DMO. This is a selling feature.	,
Series;TCR1000 MTM5000 Series,	(Address Bundle)	(Address Bundle)	FALSE	false,true	This field defines the channel on which the radio is authenticated after receiving a Disable request. The available options are:	Yes
MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000	Authentication of Disable during Packet Data	Security->Authentication of Disable during Packet Data	On CCH	0^On CCH; 1^On PDCH	On CCH - on the control channel On PDCH - on the packet data channel	No
MTM5000 Series, MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex					If this field is enabled, the radio can operate on Local Site	
MTM5000 Series, MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex	Allow SC1 on LST	Security->Allow SC1 on LST Emergency Alarm Destination - DMO-	FALSE	false,true	Trunking sites that belong to Security Class 1. This field sets a predefined emergency ISSI for sending emergency alarms. To make this field visible, set Codeplug → Emergency Options → Emergency Alarm Options → Emergency Alarm Destination - DMO → Destination to Predefined Address.	No
MTM5000 Series, MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex	Alarm SSI Number of Valid ACCESS-ASSIGN PDUs to Allow Reception of TCH	>Alarm SSI Voice Services Options->Number of Valid ACCESS-ASSIGN PDUs to Allow Reception of TCH	16777215	1-16777215 1-255	not ready in .10 project.	No
MTM5000 Series, MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex	Connect Ack FCD	DMO Frame Count Down Values- >Connect Ack FCD	3	14	This field defines how many times the radio transmits the DM- CONNECT acknowledgement Protocol Data Unit (PDU).	
MTM5000 Series, MTM800FuG Series; MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000	Application Inactivity Time, sec	Timers->Application Inactivity Time,	60	30-3600	This field defines the time (in seconds) after which an application (for example, the camera, the WAP browser or Bluetooth) is closed and the radio goes back to the Idle Screen.	No
Series;TCR1000	Status/Alarms Addressing	TMO Talkgroup List->Status/Alarms Addressing	None	valid address bundle	This field determines the address bundle used for sending status messages and emergency alarms. Address bundles are defined in Codeplug → TalkGroups → TMO → TMO Address Bundle List	No
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000 MTM5000 Series,	GPS LIP Addressing	TMO Talkgroup List->GPS LIP Addressing	None	valid address bundle	This field determines the address bundle used for sending GPS Location information Protocol messages. Address bundles are defined in Codeplug → TalkGroups → TMO → TMO Address Bundle List. This field determines the address bundle used for sending	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000	RMS/FMS Addressing Default Address	TMO Talkgroup List->RMS/FMS Addressing	None	valid address bundle	Radio Messaging System messages. Address bundles are defined in Codeplug → TalkGroups → TMO → TMO Address Bundle List When adding a new group through a DGNA action, this field	No
MTP8x0, MTP8x0Ex	Bundle Status/Alarms Addressing	Dynamic Group Number Assignment- >Default Address Bundle Status/Alarms Addressing	None	valid address bundle	defines the default address bundle to be used for sending status messages and emergency alarms while attached to this group. When adding a new group through a DGNA action, this field	No
Series;TCR1000 MTM5000 Series,	Bundle GPS LIP Addressing	Dynamic Group Number Assignment- >Default Address Bundle GPS LIP Addressing	None	valid address bundle	defines the default address bundle to be used for sending GPS Location Information Protocol messages while attached to this group When adding a new group through a DGNA action, this field	No
	Default Address Bundle RMS/FMS Addressing	Dynamic Group Number Assignment- >Default Address Bundle RMS/FMS Addressing	None	valid address bundle	defines the default address bundle to be used for sending Radio Messaging Services messages while attached to this group.	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex	Address Bundle Name	TMO Address Bundle List->Address Bundle Name	None	Max length: 24	Use this field to enter a name for the selected address bundle.	No
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex					If this field is enabled, the corresponding address bundle can be selected. The related Address Bundle Name field cannot be empty and at least one address value needs to be provided If this field is disabled, the corresponding address bundle	
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex	Status 1st Address	TMO Address Bundle List->Status TMO Address Bundle List->1st Address	FALSE 0	false;true 0-16777215	cannot be selected. This field contains the first address from the selected bundle. A Ovalue indicates no address is set.	No No
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000	2nd Address	TMO Address Bundle List->2nd Address		0-16777215	This field contains the second address from the selected bundle. A O value indicates no address is set.	No
	3rd Address	TMO Address Bundle List->3rd Address	0	0-16777215	This field contains the third address from the selected bundle. A 0 value indicates no address is set.	No
	4th Address	TMO Address Bundle List->4th Address	0	0-16777215	This field contains the fourth address from the selected bundle. A 0 value indicates no address is set.	No
Series;TCR1000	Status/Alarms Addressing	DMO Talkgroup List->Status/Alarms Addressing	None	valid address bundle	This field determines the address bundle used for sending status messages and emergency alarms. Address bundles are defined in Codeplug \rightarrow TalkGroups \rightarrow DMO \rightarrow DMO Address Bundle List.	No
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series;TCR1000	GPS LIP Addressing	DMO Talkgroup List->GPS LIP Addressing	None	valid address bundle	This field determines the address bundle used for sending GPS Location Information Protocol messages. Address bundles are defined in Codeplug → TalkGroups → DMO → DMO Address Bundle List.	No



			Codeplug Parameter			
	Codeplug Parameter		Default	Codeplug		Selling
Platform MTM5000 Series,	Name	Codeplug Parameter Path	Setting	Parameter range	Codeplug Parameter Purpose	featur
MTM800FuG Series;MTH8x0,					Use this field to enter a name for the selected address	
MTP8x0, MTP8x0Ex Series;TCR1000	Address Bundle Name	DMO Address Bundle List->Address Bundle Name	None	Max length: 24	bundle.	No
MTM5000 Series,					If this field is enabled, the corresponding address bundle can be selected. The related Address Bundle Name field cannot	
MTM800FuG Series;MTH8x0,					be empty and the address value needs to be provided	
MTP8x0, MTP8x0Ex					If this field is disabled, the corresponding address bundle	
Series;TCR1000 MTM5000 Series,	Status	DMO Address Bundle List->Status	FALSE	false;true	cannot be selected.	No
MTM800FuG Series;MTH8x0,					This field contains the address of the selected bundle. A 0	
MTP8x0, MTP8x0Ex Series;TCR1000	Address	DMO Address Bundle List->Address	0	0-16777215	value indicates no address is set.	No
Series, ick1000	Address	DIVIO Address Buildle List->Address	U	0-16///213		INO
MTM5000 Series,					This field defines how the radio builds the scrambling vector	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex					if the color code is 0. The available options are: - All Zeros	
Series;TCR1000;milan2E;mil	Scrambling Vector	Mobility Parameters->Scrambling		0^All Zeros;	- Add MNI	
an2	for Colour Code 0	Vector for Colour Code 0	Add MNI	1^Add MNI		No
MTM5000 Series,					If this field is enabled, the radio displays a blinking GPS icon	
MTM800FuG Series;MTH8x0,		GPS Settings->GPS Icon when No Fix			when GPS attempts to acquire a location fix.	
MTP8x0, MTP8x0Ex Series	Fix Available	Available	FALSE	false;true		No
MTM5000 Series,						
MTM800FuG Series;MTH8x0,		RMS Settings->Calling Party Base			This field defines the lowest authorized ISSI of the calling	
MTP8x0, MTP8x0Ex Series	Address	Address	0	1-16777215	party for RMS messages.	No
MTM5000 Series,						
		RMS Settings->Calling Party Upper			This field defines the highest authorized ISSI of the calling	<u> </u> .
MTP8x0, MTP8x0Ex Series	Address	Address	0	1-16777215	party for RMS messages.	No
MTM5000 Series,					Enabling this field makes the On/Off key inoperative while	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Lock Power-Off Key	Koupad Slack Downer Off Kou	FALSE	false,true	the keypad is locked.	No
WITPOXU, WITPOXUEX SETIES	Lock Power-Off Rey	Keypad->Lock Power-Off Key	FALSE	raise,true		INO
MTM5000 Series,					If this field is enabled, the radio displays the audio profile	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Profile Name Visible	User Profile 1->Profile Name Visible	FALSE	false,true	name on the idle screen.	No
WIT OND, WIT GROEN SCITES	VISIBIC	oser frome 1 frome Name Visible	171252	raiscytrac		110
					This field is used to select an item displayed on the Idle	
					Screen from the list of all available items. The available options are:	
					- Network - a network alias or number	
					- Range - the folder containing the current talkgroup	
					- TG Name - a talkgroup alias or number - Time&Date - the current time and date	
				0^;1^Network;2^	- Home Mode - the user-defined message on the Home	
				Range;3^TG	Mode Display	
				Name;4^Time&D	- RMS/FMS - Radio Messaging System messages - ISSI - the ISSI number of the radio	
			I			
				ate;5^Home Mode;6^RMS/FM	- OPTA - the Operational Tactical Address value	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA;	- Gateway TMO Zone - the folder of the current Gateway	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA;	- Gateway TMO Zone - the folder of the current Gateway	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Zone;11^Gatewa y TMO TG;12^Gateway	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Zone;11^Gatewa y TMO TG;12^Gateway DMO	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Zone;11^Gatewa y TMO TG;12^Gateway DMO Zone;13^Gatewa y DMO TG;14^BSI	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality	
MTMF000 Favior				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Zone;11^Gateway y TMO TG;12^Gateway DMO Zone;13^Gatewa y DMO TG;14^BSI Registration	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In	
				Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Zone;11^Gatewa y TMO TG;12^Gateway DMO Zone;13^Gatewa y DMO TG;14^BSI	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality	
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->tem		Mode;6^RMS/FM S;7^ISSI;8^OPTA; 10^Gateway TMO Cone;11^Gatewa y TMO TG;12^Gateway DMO Zone;13^Gatewa y DMO TG;14^BSI Registration Status;15^Radio	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater	No
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gatewa y TMO TG;12*Gateway DMO Zone;13*Gatewa y DMO TG;14*BSI Registration Status;15*Radio Status;15*Audio Profile Name	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater	No
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway YTMO TG;12*Gateway DMO Zone;13*Gateway DMO TG;14*PSI Registration Status;15*Radio Status;16*Audio Profile Name	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway YTMO TG;12*Gateway DMO Zone;13*Gateway DMO TG;14*BSI Registration Status;15*Radio Status;15*Audio Profile Name 0*;14*;2*2;3*3;4* 4;5*5;566;7*7;8*8 ;9*9;10*10;11*11;	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway YTMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*BSI Registration Status;15*Radio Status;16*Audio Profile Name 0*;1*1;2*2;3*3;4*4 4;5*5;6*6;7*7;8*8 9;9*9;10*10;11;12*1;13*13;14*1	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Item	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway YTMO TG;12*Gateway DMO Zone;13*Gateway DMO TG;14*BSI Registration Status;15*Radio Status;15*Audio Profile Name 0*;14*;2*2;3*3;4* 4;5*5;566;7*7;8*8 ;9*9;10*10;11*11;	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
MTM800FuG Series;MTH8x0,	ltem	Configurable Idle Screen->Item		Mode;6'RMS/FM 5;7'NS5;8'0PTA; 10'Gateway TMO 20ne;11'Gateway 7 IMO 20ne;13'Gateway DMO 20ne;13'Gateway DMO TG;14'BSI Registration Status;15'Radio Status;16'Audio Profile Name 0';1'1;2'2;3'\3;4'\4,5'\5,6'\6,7'\7,8'\8,9'\8,10'\10,11'\1; 12'\12;13'\13;14'\14,15'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\15,16'\1	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	ltem	Configurable Idle Screen->Item		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway YTMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*PSI Registration Status;15*Radio Status;15*Audio Profile Name 0°;1*1;2*2;3*3;4*4 4;5*5;6*6;7*7;8*8 ;9*9;10*10;11*11; 12*12;13*13;14*1 4;15*15;16*16;17 *17;18*18;19*19; 20*20;21*21;22*2;2*23;2*21;2*2*2;2*2*23;2*2*23;2*2*23;2*2*2*2*2*2*	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile	No
wTM800FuG Series;MTH8x0, wTP8x0, MTP8x0Ex Series wTM8x0, MTP8x0Ex Series				Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO 20ne;11*Gateway 7 IMO 20ne;13*Gateway 9 DMO TG;14*SI Registration Status;15*Radio Status;15*Radio Status;16*Audio Profile Name 0°;14;2*2;3*3;4*4 4;5*5;6*6;7*7;8*8 9*9;10*10;11*11; 12*12;13*13;14*1 4;15*15;16*16;17 20*20;21*21;22*2 2;23*23;24*24;25 4;25;26*26;27*27; 28*28;29*29;30*3	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM8000 Series, MTM8000 Series, MTM800FuG Series;MTH8x0,	ltem Priority	Configurable Idle Screen->Item Configurable Idle Screen->Priority		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*SI Registration Status;15*Radio Status;15*Audio Profile Name 0*;14*;2*2*3*3;4*4 15*15;16*16;17 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;13*13;14*1 12*12;23*13;14*2*1 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;25*2 12*23*13;24*24;24*2 12*23*13;24*24;24*2 12*23*13;24*24;24*2 12*23*13;24*24;24*2 12*23*13;24*24;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2 12*23*13;24*2	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The highest number equals the highest priority.	No No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM8000 Series, MTM8000 Series, MTM800FuG Series;MTH8x0,				Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO 20ne;11*Gateway 7 IMO 20ne;13*Gateway 9 DMO TG;14*SI Registration Status;15*Radio Status;15*Radio Status;16*Audio Profile Name 0°;14;2*2;3*3;4*4 4;5*5;6*6;7*7;8*8 9*9;10*10;11*11; 12*12;13*13;14*1 4;15*15;16*16;17 20*20;21*21;22*2 2;23*23;24*24;25 4;25;26*26;27*27; 28*28;29*29;30*3	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The	
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MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM8000 Series, MTM8000 Series,				Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*NS Registration Status;15*Radio Status;15*Radio Profile Name 0*,1*1;2*2;3*3;4*4 4;5*5;6*6;7*7;8*8 ;9*9;10*10;11*11; 12*12;13*13;14*1 12*12;13*13;14*1 20*20;2*12*1;2*2*2 ;2*2*3;2*3*2;4*2*25 *25;26*26;2*7*27; 28*28;2*9*29;30*3 0;31*31;32*32	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The highest number equals the flighest priority. This field sets the size the fine twisible on the Idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size	
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MTM800FuG Series,MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority		Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*SSI Registration Status;15*Radio Status;15*Radio Profile Ameio 0*,1*1;2*2;3*3;4* 4;5*5;6*6;7*7;8*8 ;9*9;10*10;11*11; 12*12;13*13;14*1 12*12;13*13;14*1 20*20;1*21;2*2*2 2*2*23;2*4*2;4*2 4;5*15;16*16;17 17*18;18;19*19; 20*20;1*21;2*2*2 2*2*3;2*3;4*2*4;2*5 7:25;26*26;2*7*27; 28*28;2*9*3;3*0*3 0;31*31;32*32	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size the front visible on the idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font	System Font	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*SI Registration Status;15*Radio Status;15*Audio O*;1*1;2*2;3*3;4*4 4;5*5;666;7*7;8*8 ;9*9;10*10;11*11; 12*12;13*13;14*1 4;15*15;16*16;17 17*1;8*18;19*19; 20*20;21*21;22*2 2;23*23;24*24;25 7*25;26*26;27*27; 28*28;29*29;30*3 0;31*31;32*32	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority	System Font Size more default	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*SSI Registration Status;15*Radio Status;15*Radio Profile Ameio 0*,1*1;2*2;3*3;4* 4;5*5;6*6;7*7;8*8 ;9*9;10*10;11*11; 12*12;13*13;14*1 12*12;13*13;14*1 20*20;1*21;2*2*2 2*2*23;2*4*2;4*2 4;5*15;16*16;17 17*18;18;19*19; 20*20;1*21;2*2*2 2*2*3;2*3;4*2*4;2*5 7:25;26*26;2*7*27; 28*28;2*9*3;3*0*3 0;31*31;32*32	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size the front visible on the idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font	
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM8000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font	Size more default value and	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*NSI Registration Status;15*Aadio Status;15*Aadio Profile Name 0*;1*1;2*2;3*3;4*4 1;5*15;16*16;17 1*7;18*18;19*19; 20*20;2*12;12*2*2 2;2*3*2;3*24*24;25 *25;26*26;27*27; 28*28;29*29;30*3 0;31*31;32*32 1*Large Font Size; 2*Auto Font Size 2*Auto Font Size	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile This field defines the priority assigned to each item. This number (from 1 to 32) is unique for each item, so it is impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the Idle Screen for the selected item. The available options are: - Large Font Size - the Item will be displayed using the maximum available font size - System Font Size - the ridio automatically adjusts the font size so that the Item fits the line	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font	Size more default value and different for	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway 7 TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*PSI Registration Status;15*Aadio Status;15*Aadio Profile Name 0^;1^1;2^2;3^3;4^4 4;5^5;6^6;7^7;8^8 ;9^9;10*10;11*11;12*12;12*13;14*14;15*15;16^16;17*17*17*12*2;2*2*2*2*2*2*2*2*2*2*2*2*2*2*2*2*2*	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile Name - the name of the current audio profile impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the Idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font size so that the item fits the line	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font	Size more default value and	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*NSI Registration Status;15*Aadio Status;15*Aadio Profile Name 0*;1*1;2*2;3*3;4*4 1;5*15;16*16;17 1*7;18*18;19*19; 20*20;2*12;12*2*2 2;2*3*2;3*24*24;25 *25;26*26;27*27; 28*28;29*29;30*3 0;31*31;32*32 1*Large Font Size; 2*Auto Font Size 2*Auto Font Size	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile Name - the name of the current audio profile impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the Idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font size so that the item fits the line	No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority Item Font Size Group Number of	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font Size Configurable Idle Screen->Group	Size more default value and different for different	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*PSI Registration Status;15*Radio Status;15*Radio Profile 16*Audio Profile 16*Aud	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile Name - the name of the current audio profile impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the Idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font size so that the item fits the line	No No
MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM5000 Series, MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series MTM800FuG Series;MTH8x0, MTP8x0, MTP8x0Ex Series	Priority Item Font Size Group Number of	Configurable Idle Screen->Priority Configurable Idle Screen->Item Font Size	Size more default value and different for different	Mode;6*RMS/FM 5;7*ISS;8*OPTA; 10*Gateway TMO Zone;11*Gateway y TMO Zone;13*Gateway DMO Zone;13*Gateway DMO TG;14*PSI Registration Status;15*Radio Status;15*Radio Profile 16*Audio Profile 16*Aud	- Gateway TMO Zone - the folder of the current Gateway TMO talkgroup - Gateway TMO talkgroup - Gateway TMO TG - the current Gateway TMO talkgroup - Gateway DMO Zone - the folder of the current Gateway DMO talkgroup - Gateway DMO TG - the current Gateway DMO talkgroup - BSI Registration Status - the registration status of the BSI functionality - Radio Status - No Service, TXI Mode, KVL Mode, In emergency, Gateway or Repeater - Audio Profile Name - the name of the current audio profile Name - the name of the current audio profile impossible to have two items with the same priority. The highest number equals the highest priority. This field sets the size of the font visible on the Idle Screen for the selected item. The available options are: - Large Font Size - the item will be displayed using the maximum available font size - System Font Size - the item will be displayed using currently selected font size on the radio - Auto Font Size - the radio automatically adjusts the font size so that the item fits the line	No No



			Codeplug			
			Parameter			
Platform	Codeplug Parameter Name	Codeplug Parameter Path	Default Setting	Codeplug Parameter range	Codeplug Parameter Purpose	Selling feature
				0^Yellow;1^Yello w	This field sets the color for icons associated with the audio profile. The available options are: - Yellow (default) - Yellow blinking	
				blinking;2^Red;3 ^Red	- Red - Red blinking	
				blinking;4^Blue;5 ^Blue	- Blue - Blue blinking	
				blinking;6^Green	- Green	
				;7^Green blinking;8^Brow	- Green blinking - Brown	
MTH8x0, MTP8x0, MTP8x0Ex Series	Color of Icon	User Profile 1->Color of Icon	Yellow	n;9^Brown blinking	- Brown blinking	No
	COIOI OI ICOII	osci i fonic i zeoloi di teon	Tellow	Dilliking	This field enables the use of the largest font size on the Idle	140
MTH8x0, MTP8x0, MTP8x0Ex Series	Large Idle Font	Display Options->Large Idle Font	TRUE	false,true	Screen.	No
				0^Always OFF;	This field determines the status of the Man Down feature after turning on the radio. The available options are: - Always Off - the Man Down feature is disabled on radio startup - Always On - the Man Down feature is enabled on radio startup	
MTH8x0, MTP8x0, MTP8x0Ex	Man Down Status	Man-Down->Man Down Status after		1^Always ON; 2^Preserve User	- Preserve User Selection - the status of the Man Down feature is the same as it was on radio shutdown	
Series	after Power Up	Power Up	Always ON	Selection		No
MTH8x0, MTP8x0, MTP8x0Ex					This field stores the status of the Man Down feature. If enabled and Codeplug → Man-Down → Man Down Status after Power Up is set to Preserve User Selection, the Man Down feature is enabled on radio startup. If disabled and Codeplug → Man-Down → Man Down Status after Power Up is set to Preserve User Selection, the Man Down feature is disabled on radio startup.	
Series	Man Down Status	Man-Down->Man Down Status	TRUE	false;true	If this field is enabled, the radio displays the Man Down	No
MTH8x0, MTP8x0, MTP8x0Ex	Mar De 1	Man Davis M. S	TOUE	f-1	menu.	
Series	Man Down Menu	Man-Down->Man Down Menu	TRUE	false;true	If this field is enabled, the user can assign the Man Down	No
MTH8x0, MTP8x0, MTP8x0Ex Series	Man Down OTB	Man-Down->Man Down OTB	TRUE	false;true	On/Off function to a one-touch button in Codeplug → Buttons, Keys and Accessories → One-Touch Buttons.	No
MTM5000 Series,	IVIAIT DOWIT OTB	INIAII-DOWII->INIAII DOWII O I B	INUE	raise,true	If enabled, this field activates the TEDS (TETRA Enhanced Data	NO
MTM800FuG Series_350- 380MHz	QAM	Feature Flags->QAM	FALSE	false,true	Speed) functionality using Quadrature Amplitude Modulation (QAM) for faster data transmission.	Yes
	Implicit		171252	raise,trae		103
MTM5000 Series, MTM800FuG Series_350- 380MHz	Acknowledgement on Original Advanced Link	Packet Data Parameters->Implicit Acknowledgement on Original Advanced Link	FALSE	false;true	If this field is enabled, the radio applies a delay-reducing algorithm when processing packet data link acknowledgments.	No
MTM5000 Series, MTM800FuG Series_350- 380MHz	AR Latency	Packet Data Parameters->AR Latency	1	0-30	This field defines the timing of Acknowledgment Requests when transmitting data on the uplink. The radio transmits uplink data in bursts containing several timeslots (the size and timing of bursts is controlled by the SwMI). For each transmitted burst, the radio requests the SwMI to send back an acknowledgement - this setting controls how many slots before the end of the burst the request is sent.	No
MTM5000 Series,				0 30	If this field is enabled, the radio uses the extended advanced link protocols for long message transmission. The extended advanced link is an improved version of the original advanced	
MTM800FuG Series_350- 380MHz	Extended Advanced Link	Packet Data Parameters->Extended Advanced Link	TRUE	false;true	link and can be used on TEDS channels.	No
MTM5000 Series, MTM800FuG Series_350-		Packet Data Parameters->QAM			If this field is enabled, the radio selects a cell with QAM support as soon as the cell becomes radio usable. The preference for QAM is only active when the radio is actively transmitting or receiving data. The radio is considered to be actively transmitting or receiving data when it has been on a packet data channel for a minimum amount of time, as set in Codeplug -> Data Services -> Packet Data Parameters -> READY Threshold. If the radio is not using a packet data channel for a period of time set in Codeplug -> Data Services -> Packet Data Parameters -> QAM Preferred Timer, the QAM stops being the preferred service.	
380MHz MTM5000 Series,	QAM Preferred	Preferred	FALSE	false;true	This field defines the period of time (in seconds) after which	No
MTM800FuG Series_350- 380MHz	QAM Preferred Timer	Packet Data Parameters->QAM Preferred Timer	180	15-36000	QAM (TEDS) stops being the preferred service.	No
MTM5000 Series, MTM800FuG Series_350- 380MHz	READY Threshold	Packet Data Parameters->READY Threshold	30	0-1000	This field defines how long (in seconds) the radio must use a packet data channel before QAM is selected as the preferred service.	No
MTM5000 Series, MTM800FuG Series_350- 380MHz	Minimum TEDS Slow Reselect Threshold	Mobility Parameters->Minimum TEDS Slow Reselect Threshold	-80	(-120)-(-70)	This field defines the minimum slow reselect threshold (in dBm) when QAM is the preferred service.	No
MTM5000 Series,	Incoming Emergency Tone	MMI Options->Incoming Emergency	Default Emergency	0^Default Emergency Tone; 1^Emergency	This field sets the tone for incoming emergency calls. The available options are: - Default Emergency Tone - Emergency Tone 2	
MTM800FuG Series	Selection	Tone Selection	Tone	Tone 2	This field sets the tone for incoming emergency calls. The available options are:	No
MTM5000 Series,	Incoming Emergency Tone	Tones->Incoming Emergency Tone	Default Emergency	Emergency Tone; 1^Emergency	available options are: - Default Emergency Tone - Emergency Tone 2	
MTM800FuG Series	Selection	Selection	Tone	Tone 2		No



			Codeplug			
	Codeplug Parameter		Parameter Default	Codeplug		Selling
Platform	Name	Codeplug Parameter Path	Setting	Parameter range	Codeplug Parameter Purpose	feature
					This field defines the type of Speaker On and Speaker Off icons associated with the audio profile. The available options	
					are:	
					- No Icon - no icon is shown when the speakers of both control heads are on	
				0^No Icon;	- Normal	
MTM5000 Series, MTM800FuG Series	Audio Icon	User Profile 1->Audio Icon	No Icon	1^Normal; 2^Loud	- Loud	No
					Defines the audio profile that the radio loads when powering	
					on. To select an audio profile to be the default, put the pointer into the field value, click on the arrow, and drag the	
MTM5000 Series,			User Profile	seleted user	pointer to the desired selection.	
MTM800FuG Series MTM5000 Series,	Default Profile	Audio Settings->Default Profile	1:General 1	profile	This field allows enabling the corresponding audio profile.	No
MTM800FuG Series	Enable Audio Profile	User Profile 1->Enable Audio Profile	TRUE	false,true	mis nero anows enabling the corresponding addition prome.	No
					This field allows setting the corresponding audio profile	
MTM5000 Series,					name. The name is visible to the radio user in the MMI.	
MTM800FuG Series	Profile Alias/Name	User Profile 1->Profile Alias/Name	General 1	Max length: 12	The name is visible to the rodio age. In the name	No
					This field enables modifying audio parameters in the	
					corresponding audio profile. If disabled, all the parameter values in the corresponding	
					user profile are set to their default values (as per the	
MTM5000 Series, MTM800FuG Series	Editable	User Profile 1->Editable	FALSE	false,true	template used).	No
Williamon ad Selles	Luitable	OSEI FIOITIE 1->EUITABLE	TALSE	raise,true	This field defines the audio profile activated on pressing the	NO
MTM5000 Series,	A . I'. D . 5''	Districts of Audio F. Cit	User Profile	seleted user	related key or button.	
MTM800FuG Series MTM5000 Series,	Audio Profile	Digit Key ->Audio Profile	1:General 1	profile		No
MTM800FuG Series	Audio Profile	Menu Configuration->Audio Profile	TRUE	false,true	N/A	No
AL		A . P. C. W			This node contains audio-related configuration options for an	
Normal MTM5000 Series, MTM800FuG Series	Audio Parameters	Audio Settings -> User Profile [1-2] -> Audio Parameters	CPS node	N/A	individual user.	No
					This node contains parameters related to voice and tone	
Normal MTM5000 Series, MTM800FuG Series	Volume Settings	Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings	CPS node	N/A	volume settings for the radio and the accessories.	No
Williamon ad Selles	volume Settings	Audio Settings -> User Profile [1-2] ->	CF3 Houe	IN/A	This node contains parameters related to voice volume	NO
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			settings for radios and accessories.	l
MTM800FuG	Voice	> Voice Audio Settings -> User Profile [1-2] ->	CPS node	N/A		No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -	RSM / HSM;	RSM / HSM;	This field sets the maximum volume offset and the volume	
MTM800FuG	Field Name	> Voice->Field Name			range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Max Vol Offset	> Voice->Max Vol Offset	0	(-20)-20	range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Vol Range	> Voice->Vol Range	39	0-50	range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -	External Speaker;	External Speaker;	This field sets the maximum volume offset and the volume	
MTM800FuG	Field Name	> Voice->Field Name	Speaker,	эреакет,	range for specific accessories	No
		Audio Settings -> User Profile [1-2] ->				
MTM5200, MRM5400, MTM800FuG	Max Vol Offset	Audio Parameters -> Volume Settings - > Voice->Max Vol Offset	0	(-20)-20	This field sets the maximum volume offset and the volume range for specific accessories	No
		Audio Settings -> User Profile [1-2] ->	_	(==, ==		
MTM5200, MRM5400, MTM800FuG	Val Pango	Audio Parameters -> Volume Settings -	39	0-50	This field sets the maximum volume offset and the volume	No
IVITIVIOUUFUG	Vol Range	> Voice->Vol Range Audio Settings -> User Profile [1-2] ->	39	0-30	range for specific accessories	NO
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -	Headset;	Headset;	This field sets the maximum volume offset and the volume	
MTM800FuG	Field Name	> Voice->Field Name Audio Settings -> User Profile [1-2] ->			range for specific accessories	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Max Vol Offset	> Voice->Max Vol Offset Audio Settings -> User Profile [1-2] ->	0	(-20)-20	range for specific accessories	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Vol Range	> Voice->Vol Range	26	0-50	range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -	Earpiece;	Earpiece;	This field sets the maximum volume offset and the volume	
MTM800FuG	Field Name	> Voice->Field Name	Laipicec,	za.p.ece,	range for specific accessories	No
A 477 47 200 A 400 47 400		Audio Settings -> User Profile [1-2] ->				
MTM5200, MRM5400, MTM800FuG	Max Vol Offset	Audio Parameters -> Volume Settings - > Voice->Max Vol Offset	0	(-20)-20	This field sets the maximum volume offset and the volume range for specific accessories	No
		Audio Settings -> User Profile [1-2] ->			- O	
MTM5200, MRM5400, MTM800FuG	Vol Range	Audio Parameters -> Volume Settings - > Voice->Vol Range	26	0-50	This field sets the maximum volume offset and the volume range for specific accessories	No
70001 00	- or nange	Audio Settings -> User Profile [1-2] ->		30	Tange to specific accessories	
MTM5200, MRM5400,	et dans	Audio Parameters -> Volume Settings -		III. I	This field sets the maximum volume offset and the volume	ļ
MTM800FuG	Field Name	> Voice->Field Name Audio Settings -> User Profile [1-2] ->	Handset	Handset	range for specific accessories	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Max Vol Offset	> Voice->Max Vol Offset	0	(-20)-20	range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			This field sets the maximum volume offset and the volume	
MTM800FuG	Vol Range	> Voice->Vol Range	26	0-50	range for specific accessories	No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			This node contains parameters related to tone volume	
MTM800FuG	Tones	>Tones	CPS node	N/A	settings for the control head and the accessories	No



			Codeplug			
			Parameter			
Platform N	Codeplug Parameter Jame	Codeplug Parameter Path	Default Setting	Codeplug Parameter range	Codeplug Parameter Purpose	Selling feature
					This node contains parameters related to tone volume	
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			settings for the control head and the accessories when high audio is active	
	ligh Audio	>Tones->High Audio	CPS node	N/A	addio 15 delite	No
			0^Alert			
			Tone;1^Duple	0^Alert		
			Ring;2^Simple	Tone;1^Duplex		
		Audio Settings -> User Profile [1-2] ->	х	Ring;2^Simplex	This node contains parameters related to tone volume	
MTM5200, MRM5400, MTM800FuG	ield Name	Audio Parameters -> Volume Settings - >Tones->High Audio->Field Name	Ring;3^Keypa d;4^Call-Out	Ring;3^Keypad;4 ^Call-Out	settings for the control head and the accessories when high audio is active	No
		Audio Settings -> User Profile [1-2] ->	.,		This node contains parameters related to tone volume	
MTM5200, MRM5400,	4	Audio Parameters -> Volume Settings -	_	(20) 20	settings for the control head and the accessories when high	
MTM800FuG N	Max Vol Offset	>Tones->High Audio->Max Vol Offset Audio Settings -> User Profile [1-2] ->	-/	(-20)-20	audio is active This node contains parameters related to tone volume	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			settings for the control head and the accessories when high	
MTM800FuG V	ol Range	>Tones->High Audio->Vol Range	39	0-50	audio is active	No
		Audio Settings -> User Profile [1-2] ->			This node contains parameters related to tones volume settings for the control head and the accessories when low	
MTM5200, MRM5400,		Audio Parameters -> Volume Settings -			audio is active.	
MTM800FuG L	ow Audio	>Tones->Low Audio	CPS node 0^Alert	N/A		No
			Tone;1^Duple			
			x	0^Alert		
			Ring;2^Simple	Tone;1^Duplex	This node contains parameters related to tones volume	
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -	x Ring;3^Keypa	Ring;2^Simplex Ring;3^Keypad;4	settings for the control head and the accessories when low audio is active.	
	ield Name	>Tones->Low Audio->Field Name	d;4^Call-Out	^Call-Out		No
		Audio Cattings > 11 051- 54-53			This node contains parameters related to tones volume	
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			settings for the control head and the accessories when low audio is active.	
	Max Vol Offset	>Tones->Low Audio->Max Vol Offset	11	(-20)-20		No
		Audio Cattings > 11 051- 54-53			This node contains parameters related to tones volume	
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings -			settings for the control head and the accessories when low audio is active.	
	ol Range	>Tones->Low Audio->Vol Range	39	0-50		No
MITMESON MARKETANN		Audio Settings -> User Profile [1-2] ->			This node contains microphone gain parameters for	
MTM5200, MRM5400, MTM800FuG N	∕lic Gain	Audio Parameters -> Volume Settings- >Mic Gain	CPS node	N/A	accessories connected to the control head.	No
			0^RSM/			
			HSM;1^Hands			
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings-	et;2^Fist Mic;3^Visor	HSM;1^Handset; 2^Fist	This field sets the microphone gain offset values for duplex and simplex calls for specific accessories.	
	ield Name	>Mic Gain->Field Name	Mic	Mic;3^Visor Mic	and simplex cans for specific accessories.	No
		Audio Settings -> User Profile [1-2] ->			This field sets the microphone gain offset values for duplex	
	Aic Gain Duplex Offset	Audio Parameters -> Volume Settings- >Mic Gain->Mic Gain Duplex Offset	0	(-20)-20	and simplex calls for specific accessories.	No
		Audio Settings -> User Profile [1-2] ->	-	(=0, =0	This field sets the microphone gain offset values for duplex	
	/lic Gain Simplex	Audio Parameters -> Volume Settings-			and simplex calls for specific accessories.	
MTM800FuG C	Offset	>Mic Gain->Mic Gain Simplex Offset Audio Settings -> User Profile [1-2] ->	0	(-20)-20	This node contains parameters related to the enhancement	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings-			of the audio quality.	
MTM800FuG V	oice Filters	>Voice Filters	CPS node	N/A	. ,	No
A 4TA 45200 A 4DA 45 400		Audio Settings -> User Profile [1-2] ->			This field all and a short and a short and a short and a short	
MTM5200, MRM5400, MTM800FuG T	x Noise Suppressor	Audio Parameters -> Volume Settings- >Voice Filters->Tx Noise Suppressor	FALSE	false;true	This field allows activating a filter that reduces noises in the microphone	No
		Audio Settings -> User Profile [1-2] ->			This parameter allows activating a filter that reduces sound	
MTM5200, MRM5400,	aha Caraallaa	Audio Parameters -> Volume Settings-	TOUE	f-1 t	reflections (echo) during a call.	
MTM800FuG E	cho Canceller	>Voice Filters->Echo Canceller Audio Settings -> User Profile [1-2] ->	TRUE	false;true	This field allows activating the transmit automatic gain	No
MTM5200, MRM5400,		Audio Parameters -> Volume Settings-			control.	
MTM800FuG T	x AGC	>Voice Filters->Tx AGC	TRUE	false;true		No
MTM5200, MRM5400,		Audio Settings -> User Profile [1-2] -> Audio Parameters -> Volume Settings-			This field enables the side tone feature.	
	ide Tone Enabled	>Voice Filters->Side Tone Enabled	TRUE	false;true		No
		Audio Settings -> User Profile [1-2] ->				
MTM5200, MRM5400, S	ide Tone Constant	Audio Parameters -> Volume Settings- >Voice Filters->Side Tone Constant			If enabled, this field preserves the side tone loudness regardless of the radio volume settings.	
MTM800FuG	oudness Enabled	Loudness Enabled	TRUE	false;true		No
MTM5500,	dl- D	Audio Settings -> User Profile [1-2] ->	cnc '			
MTM800FuG ET A	Audio Parameters	Audio Parameters Audio Settings -> User Profile [1-2] ->	CPS node	N/A	see above	No
	Control Head 1 (RJ-	Audio Parameters->Control Head [1-2]			This node contains settings related to Control Head 1.	
MTM800FuG ET 5	0 1) Settings	(RJ-50 [1-2]) Settings	CPS node	N/A	This field anables setting the outernal	No
					This field enables setting the external power supply voltage. The available options are:	
		Audio Settings -> User Profile [1-2] ->			- 12V	
MTM5500,	Catalana de la compansión de la compansi	Audio Parameters->Control Head [1-2]	1201	1^12V;	- 24V	
MTM800FuG ET E	xternal Supply	(RJ-50 [1-2]) Settings->External Supply	12V	2^24V		No
		Audio Settings -> User Profile [1-2] ->				
MTM5500,	(alama e art	Audio Parameters->Control Head [1-2]	cnc	***	This node contains parameters related to voice and tone	
MTM800FuG ET V	olume Settings	(RJ-50 [1-2]) Settings->Volume Settings Audio Settings -> User Profile [1-2] ->	CPS node	N/A	volume settings for the radio and the accessories.	No
		Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	cnc '	***	This node contains parameters related to voice volume	
MTM800FuG ET V	/oice	>Voice Audio Settings -> User Profile [1-2] ->	CPS node	N/A	settings for radios and accessories	No
		Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	RSM / HSM;	RSM / HSM;	This field sets the maximum volume offset and the volume	
MTM800FuG ET F	ield Name	>Voice->Field Name Audio Settings -> User Profile [1-2] ->			range for specific accessories	No
		Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	-		This field sets the maximum volume offset and the volume	
MTM800FuG ET N	Max Vol Offset	>Voice->Max Vol Offset	0	(-20)-20	range for specific accessories	No
		Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	1		This field sets the maximum volume offset and the volume	
MTM800FuG ET V	ol Range	>Voice->Vol Range	39	0-50	range for specific accessories	No



Parameter Default Parameter Default Parameter Parameter Codeplug Parameter Purpose Audio Settings > Obser Profile [1-2] > Setting Parameter Purpose Paramete	volume No volume No volume No volume No volume No
Audio Settings - User Profile [1-2] > Audio Parameters - Control Need [1-2] (III-501 [1-2]) Settings-3-Volume Settings-Speaker; MTMSSDD, GET Mas Vol Offset Audio Settings - User Profile [1-2] > Audio Parameters - Control Need [1-2] (III-501 [1-2]) Settings-3-Volume Settings-3-Volume Settings-4-Volume Settin	volume No
Andio Parameters - Scortor Head [1-2] Andio Parameters - Scortor Head [1-2] Andio Settings - Solvaine Settings Speaker; Andio Settings - Solvaine Settings - Speaker; Andio Settings - Solvaine Settings - Speaker; Andio Settings - Speaker; An	volume No volume No volume No volume No volume No volume No
### Speaker; This field sets the maximum volume offset and the milkogroup of Field Name	volume No volume No volume No volume No volume No volume No
Audio Settings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R.9.012) Estings - User Profile [1:2] - Audio Parameters-Contro	volume No volume No volume No volume No volume No volume No
Audio Parameters-Control Head [1-2] (IR-50 10, 12) Settings-Volume Settings (IR-50 10,	volume No volume No volume No volume No volume No
Max Vol Offset Volce-away Volce-	volume No volume No volume No volume No volume No
Audio Settings - Vuser Profile [12] - Audio Settings - Vuser Profile [volume No No volume No volume No volume No volume No volume No volume
Audio Parameters-Control Head [1-2] (IRU-5012_E) Settings >-Volume Settings - Volume Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Volume Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Parameters - Control Head [1-2] (IRU-5012_E) Settings - Vuser Profile [1-2] > Audio Settings - Vuser	volume No
### MRSOCFUG ET Vol Range Volce-Vol Range Volc	volume No
Wolfear Wolf	volume No
Audio Parameters-Scontrol Head [1-2] (RI-50] L-2) [Settings-Svolume Settings Headset; This field sets the maximum volume offset and the range for specific accessories Audio Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] [-2] Settings-Volume Settings O (-20)-20 Audio Parameters-Scontrol Head [1-2] (RI-50] [-2] Settings-Volume Settings O (-20)-20 Audio Parameters-Scontrol Head [1-2] (RI-50] [-2] Settings-Volume Settings O (-20)-20 Audio Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Parameters-Scontrol Head [1-2] (RI-50] Settings - Subser Profile [1-2] > Audio Paramet	volume No No volume No volume
### Headset; This field sets the maximum volume offset and the fin8800FuG ET Field Name Volce-Vield Name Audio Settings -> User Profile [1:2] -> Audio Parameters-Control Head [1:2] (R)-50[1:2]) Settings-Volume Settings Volce-Wax Vol Offset Vol Range Volce-Vield Name	volume No No volume No volume
### Audio Settings - Viser Profile [1-2] - Audio Farameters - Control Head [1-2] (RI-50] (R	volume No No volume No volume
Audio ParametersScontrol Head [1-2] (RI-50](-2)] SettingsVolume Settings -Volume SettingsVolume Settings	volume No
AMINDSOO, Max Vol Offset AMINDSOO, Was Vol Offset Audio Settings > User Profile [1-2] > Audio Parameters > Control Head [1-2] (R.15-0] [1-2] Settings > Volume Settings > User Profile [1-2] > Audio Parameters > Control Head [1-2] (R.15-0] [1-2] Settings > Volume Settings > User Profile [1-2] > Audio Parameters > Control Head [1-2] (R.15-0] [1-2] Settings > Volume Settings > User Profile [1-2] > Audio Parameters > Control Head [1-2] (R.15-0] [1-2] Settings > Volume Settings > User Profile [1-2] > Audio Parameters > Control Head [1-2] (R.15-0] [1-2] Settings > Volume Settings > Volu	volume No
### Audio Settings - User Profile [1-2] - Audio Settings - User Profile [1-2] - Audio Parameters-Control Head [1-2] ### Audio Settings - User Profile [1-2] - Audio Parameters - Audio	volume No
Audio Settings - User Profile [1:2] - Audio Parameters-Control Head [1:2] (R-50 [1:2]) Settings-Volume Settings 25	volume No
TIM5500, TIM560FuG ET Vol Range Volce-Vol Range Volce-Vol Range Volce-Vol Range Volce-Vol Range Volce-Vol Range Volce-Vol Range Volce-Volce-Vol Range Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-Volce-	No volume
### Audio Settings - Volex-Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Field Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile Name Profile [1-2] - Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings Find Name Profile Name Profi	No volume
Audio Settings - Voser Profile [1-2] - Audio Parameters - Control Head [1-2] (RI-50[1-2]) Settings - Volume Settings - V	volume
Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings TIMS500, Max Vol Offset Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings This field sets the maximum volume offset and the range for specific accessories Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings This field sets the maximum volume offset and the range for specific accessories Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] (RU-50 [1-2]) Settings-Volume Settings This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets the maximum volume offset and the range for specific accessories This field sets	
### Audio Settings - Volume Settings Earpiece; Earpiece; This field sets the maximum volume offset and the range for specific accessories ### Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] ### Audio Settings - Viser Profile [1-2] -> Audio Parameters-Control Head [1-2] ### Audio Par	
Audio Settings > User Profile [1-2] > Audio Parameters-Control Head [1-2] (RI-50[1-2]) Settings-Volume Settings of Carbon (RIM800FuG ET	No
Addio Parameters->Control Head [1-2] (RJ-50[1-2]) Settings->Volume Settings 0 (-20)-20 range for specific accessories Addio Settings > User Profile [1-2] > Addio Settings > User Profile [1-2] > Addio Parameters->Control Head [1-2] (RJ-50[1-2]) Settings->Volume Settings 26	
### ATM\$500, ### ATM\$500, ### AND Offset CPS of 1-2]) Settings->Volume Settings O (-20)-20 This field sets the maximum volume offset and the range for specific accessories ### Audio Settings - Vuser Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50[1-2]) Settings->Volume Settings Volume Settings O (-20)-20 ### Audio Settings - Vuser Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50[1-2]) Settings->Volume Settings O (-20)-20 ### Audio Settings - Vuser Profile [1-2] -> Audio Parameters->Control Head [1-2] Audio	
### Addio Settings - VoiceNMax Vol Offset Audio Settings - Vuser Profile [1-2] -> Audio Parameters-Control Head [1-2] Audio Parameters-VoiceVol Range Audio Settings - VoiceVol Range 26	volume
Audio Settings -> User Profile [1-2] -> Audio Parameters-Control Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Volce-Sfield Name Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Volce-Sfield Name Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Volce-Svol Range Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Volce-Svol Range Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Volce-Svol Range Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Settings-Svolume Settings- Audio Parameters-Scontrol Head [1-2] (RI-50 [1-2]) Sett	volume No
### Audio Settings - Volume Settings This field sets the maximum volume offset and the range for specific accessories ### Audio Settings - Volume Setti	1
Audio Settings - Vole Range Audio Settings - Voler Profile [1-2] - Audio Parameters - Control Head [1-2] (RJ-50 [1-2]) Settings - Volume Settings	
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RJ-50 [1-2]) Settings->Volume Settings -> Volume	volume No
Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- Audio Settings - Vuser Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- Audio Settings - Veer Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- CPS node N/A Audio Settings - Veer Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- CPS node N/A Audio Settings - Veer Profile [1-2] -> Audio Settings - Veer Profile [1-2] -> Audio Parameters->Control Head Incomplete Settings- CPS node N/A Audio Settings - Veer Profile [1-2] -> A	NO NO
### Audio Settings -> User Profile [1-2] -> Audio Parameters -> Control Head [1-2] ### Audio Settings -> User Profile [1-2] -> Audio Parameters -> Control Head [1-2] ### Audio Settings -> User Profile [1-2] -> Audio Parameters -> Control Head [1-2] ### Audio Parameters -> Control Head	
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- CPS node N/A This node contains parameters related to tone vol settings for the control head and the accessories Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- This node contains parameters related to tone vol settings for the control head and the accessories Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- This node contains parameters related to tone vol settings for the control head and the accessories Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RI-50 [1-2]) Settings->Volume Settings- This node contains parameters related to tone vol settings for the control head and the accessories with the parameter of the pa	
Audio Parameters->Control Head [1-2] (RJ-50 [1-2]) Settings->Volume Settings of the control head and the accessories of the Max Vol Offset Max Vol Offset	No
ITMS500, Max Vol Offset	
Audio Settings -> User Profile [1-2] -> Audio Parameters -> Control Head [1-2] -> Audio Settings -> User Profile [volume
Audio Parameters->Control Head [1-2] (RJ-50 [1-2]) Settings->Volume Settings This field sets the maximum volume offset and the properties of the properties of the maximum volume offset and the properties of the maximum volume offset and the properties of the properties of the properties of the maximum volume offset and the properties of the properties of the control head and the accessories of the properties of the propert	No
ATMS500, (RJ-50 [1-2]) Settings->Volume Settings	
### Audio Settings -> User Profile [1-2] -> Audio Parameters -> Control Head [1-2] -> Audio Parameters -> CPS node N/A Budio Parameters -> CPS node N/A	
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RJ-50 [1-2]) Settings->Volume Settings This node contains parameters related to tone vol settings for the control head and the accessories Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] (RJ-50 [1-2]) Settings->Volume Settings This node contains parameters related to tone vol settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings for the control head and the accessories vertically settings f	volume No
ATTM5500, AUdio Settings -> User Profile [1-2] -> Audio Parameters -> CPS node	
AUMINSOOFuG ET Tones Audio Settings - User Profile [1-2] - Audio Settings - Volume Settings AUMINSOO, (RI-SO [1-2]) Settings - Volume	
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] ATM5500, ATM800FuG ET High Audio This node contains parameters related to tone vol settings for the control head and the accessories volated to tone vol settings for the control head and the accessories volated to tone vol settings for the control head and the accessories volated to tone vol settings for the control head and the accessories volated to tone volated	I .
Addio Parameters - Control Head [1-2] Addio Parameters - Control Head [1-2] (RJ-50 [1-2]) Settings - Volume Settings ATM800FuG ET High Audio This node contains parameters related to tone vol settings for the control head and the accessories w O^Alert Tone;1^Duple X Audio Settings -> User Profile [1-2] -> Ring;2^Simple Tone;1^Duplex Audio Settings -> User Profile [1-2] ->	No
MTM800FuG ET High Audio >Tones->High Audio CPS node N/A audio is active 0^Alert Tone;1^Duple x Audio Settings -> User Profile [1-2] -> X 0^Alert Tone;1^Duplex Audio is active	ne
0^Alert Tone;1^Duple x Audio Settings -> User Profile [1-2] -> Ring;2^Simple Tone;1^Duplex	en high
Tone;1^Duple x Audio Settings -> User Profile [1-2] -> Ring;2^Simple Tone;1^Duplex	No
Audio Settings -> User Profile [1-2] -> Ring; 2^Simple Tone; 1^Duplex	
Audio Settings -> User Profile [1-2] -> Ring; 2^Simple Tone; 1^Duplex	
Audio Parameters->Control Head [1-2] x Ring;2^Simplex This node contains parameters related to tone vol	
	I .
I(RJ-50 [1-2]) Settings->Volume Settings Ring;3^Keypa Ring;3^Keypad;4 settings for the control head and the accessories w	-
#TM800FuGET Field Name >Tones->High Audio->Field Name d;4^Call-Out ^Call-Out audio is active	No
Audio Settings -> User Profile [1-2] ->	
Audio Parameters -> Control Head [1-2] This node contains parameters related to tone vol	
ATM5500, (RJ-50 [1-2]) Settings->Volume Settings settings for the control head and the accessories v	
ATTM800FuG ET Max Vol Offset >Tones->High Audio->Max Vol Offset -7 (-20)-20 audio is active	No
Audio Settings -> User Profile [1-2] ->	
Audio Parameters->Control Head [1-2] This node contains parameters related to tone vol	ne
ATM5500, (RJ-50 [1-2]) Settings->Volume Settings settings for the control head and the accessories v	
MTM800FuG ET Vol Range >Tones>-High Audio->Vol Range 39 0-50 audio is active	No
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] This node contains parameters related to tones vo	
Multi rataniteris "Actitor nead [1-2] mins note collians parameters leaded to to mes vo mins note. Mins note control head and the accessories volume Settings for the control head and the accessories volume settings.	me
ITM800FuG ET Low Audio >Tones -> Low Audio CPS node N/A audio is active.	
0^Alert	
Tone;1^Duple	en low
x O^Alert Audio Settings -> User Profile [1-2] -> Ring;2^Simple Tone;1^Duplex	en low
Audio Parameters-Control Head [1-2] x Ring: 25/mple to This node contains parameters related to tones vo	en low
ATM5500, (RJ-50 [1-2]) Settings->Volume Settings Ring; 3^Keypa Ring; 3^Keypad; 4 settings for the control head and the accessories v	en low No
ATTM800FuG ET Field Name -Tones->Low Audio->Field Name d;4^Call-Out ^Call-Out audio is active.	nen low No
Audio Sattings - Mac Profile (4.3)	nen low No
Audio Settings -> User Profile [1-2] -> Audio Parameters->Control Head [1-2] This node contains parameters related to tones vo	ine low
Adulto ratamicers > Action nead [1-2] mins note contains paramicers related to to mes vo (RU-50 [1-2]) Settings> Volume Settings settings for the control head and the accessories v	ime No No No
MTM800FuG ET Max Vol Offset >Tones->Low Audio->Max Vol Offset 11 (-20)-20 audio is active.	nen low No
	nen low No
Audio Settings -> User Profile [1-2] ->	ime low No No No No Ime lon low No lime lon low lon low lon
	ime en low No
Audio Parameters->Control Head [1-2] This node contains parameters related to tones vo ATM5500, (RJ-50 [1-2]) Settings->Volume Settings settings for the control head and the accessories v	ime len low No



			Codeplug			
			Parameter			
	Codeplug Parameter		Default	Codeplug		Selling
Platform	Name	Codeplug Parameter Path	Setting	Parameter range	Codeplug Parameter Purpose	featur
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings			This node contains microphone gain parameters for	
MTM800FuG ET	Mic Gain	>Mic Gain	CPS node	N/A	accessories connected to the control head.	No
			0^RSM/			
		Audio Settings -> User Profile [1-2] ->	HSM;1^Hands	0^RSM/		
		Audio Parameters->Control Head [1-2]	et;2^Fist	HSM;1^Handset;		
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	Mic;3^Visor	2^Fist	This field sets the microphone gain offset values for duplex	
MTM800FuG ET	Field Name	>Mic Gain->Field Name	Mic	Mic;3^Visor Mic	and simplex calls for specific accessories.	No
					·	
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]				
MTM5500,	Mic Gain Duplex	(RJ-50 [1-2]) Settings->Volume Settings			This field sets the microphone gain offset values for duplex	
MTM800FuG ET	Offset	>Mic Gain->Mic Gain Duplex Offset	0	(-20)-20	and simplex calls for specific accessories.	No
				(==, ==		1
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]				
MTM5500,	Mic Gain Simplex	(RJ-50 [1-2]) Settings->Volume Settings			This field sets the microphone gain offset values for duplex	
ИТМ800FuG ET	Offset	>Mic Gain->Mic Gain Simplex Offset	0	(-20)-20	and simplex calls for specific accessories.	No
ITTWOODI UG ET	Oliset	Audio Settings -> User Profile [1-2] ->	0	(20) 20	and simplex cans for specific accessories.	110
		Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings			This node contains parameters related to the enhancement	
MTM800FuG ET	Voice Filters	>Voice Filters	CPS node	N/A	of the audio quality.	No
VITIVIOUOI UG ET	Voice Filters	PVOICE TITLETS	Cranoue	IV/A	or the addio quanty.	INO
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]				
ATN AFFOO					Th:- f:- d-	
MTM5500, MTM800FuG ET	To Naise Commence	(RJ-50 [1-2]) Settings->Volume Settings	FALSE	f-1	This field allows activating a filter that reduces noises in the microphone	N -
VITIVI800FUG E I	Tx Noise Suppressor	>Voice Filters->Tx Noise Suppressor	FALSE	false;true	microphone	No
		A . I'. C. II' II D CI. 54.23				
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]			L.,	
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	1		This parameter allows activating a filter that reduces sound	
MTM800FuG ET	Echo Canceller	>Voice Filters->Echo Canceller	TRUE	false;true	reflections (echo) during a call.	No
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]				
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings			This field allows activating the transmit automatic gain	
MTM800FuG ET	Tx AGC	>Voice Filters->Tx AGC	TRUE	false;true	control.	No
			1			
		Audio Settings -> User Profile [1-2] ->	1			
		Audio Parameters->Control Head [1-2]	1			
MTM5500,		(RJ-50 [1-2]) Settings->Volume Settings	1			
MTM800FuG ET	Side Tone Enabled	>Voice Filters->Side Tone Enabled	TRUE	false;true	This field enables the side tone feature.	No
		Audio Settings -> User Profile [1-2] ->				
		Audio Parameters->Control Head [1-2]	1			
		(RJ-50 [1-2]) Settings->Volume Settings	1			
MTM5500,	Side Tone Constant	>Voice Filters->Side Tone Constant	1		If enabled, this field preserves the side tone loudness	
MTM800FuG ET	Loudness Enabled	Loudness Enabled	TRUE	false;true	regardless of the radio volume settings.	No



12 Annex – Announcement

Product Marketing

Announcement

TETRA MR5.14.10/MR10.6.10

9th Apr 2014

Introduction

The Global TETRA Terminal team is pleased to announce the shipment of the new MR5.14.10/MR10.6.10 Release.

The release includes two new bands for the MTM5000 series terminals: 410-470 and 806 -870 MHz and new keypads for the Ethernet and Telephone Style control heads with Arabic, Chinese, Cyrillic, Hebrew, Korean or Taiwanese characters.

The MR5.14.10/MR10.6.10 highlight features are:

- TETRA Enhanced Data Service (TEDS)
- On-screen GPS location activity icon
- DGNA de-assignment to default group
- Shadow Groups to which status messages are also sent
- Audio profile name and icon visible in idle screen
- Enhancements to 'Man Down'
- Battery not charging (due to excessive temperature) alert
- Configurable Idle Screen
- AT command to extract System Time via a terminal
- Audio Improvements for BSI Encrypted terminals
- Allow Clear communication in Local Site Trunking
- SDS Free entry of target address
- 7.5W loudspeaker for MTM5000/MTM800FuG series

MTM5000 Series terminals have also gained Rail Certification to EN50121 & EN50155

MR5.14.10 is planned to be the last feature and last service release for the majority of models in the terminal families: MTP830S, MTP850, MTP850 Class 3L, MTP850S, MTH800, MTM800, MTM800E, MTP810Ex, MTP850Ex, TOM100, TCR1000.



Documentation

At Motorola Online you can find:

A slide presentation explaining the benefits of this release at: Resource Centre → All File Content Types → TETRA Terminals → TETRA Terminal Updates → MR5.14.10/MR10.6.10.

Please read the MR5.14.10 and/or MR10.6.10 Release Notes, also to be found at the same location as the slide presentation, before installing the new CPS Plus and upgrade the radios.

The release note provides the description for all new features, operation notes and limitations.

Also the release note lists all the customer sought enhancements provided with this software release.

User Guides at: Resource Centre → Technical Documentation Library → TETRA Terminals. *Note: Each radio has its own user documentation section.*

Manuals can be found at:

Motorola Online http://moleurope.mot.com or https://businessonline.motorola.com

Resource Centre → Tetra Terminals → Mobile Radios →



Software Enablement Kit



Software enablement kits are the preferred mechanism to provide Customers with desired additional features, these product enhancements are further enhanced in the software release MR5.14.10 / MR10.6.10.

When purchasing software features (e.g. Shadow Groups) the customer can select to receive an enablement kit consisting of a dongle that will activate the features at the same time as the TETRA terminal is provisioned.

Customers in Europe, Israel and Africa can, alternatively, select to have the additional feature enabled by Motorola Solutions prior to terminal shipment.

The new orderable features in MR5.14.10 / MR10.6.10 are:

Feature	Option via Dongle	Option pre-installed
Enable Shadow Groups License	QA04347AA	QA04346AA
Enable TEDS (QAM)	QA04221AA	QA04218AA
Enable TEDS (QAM) with Multislot Packet Data (MSPD)	QA04222AA	QA04219AA
Enable TEDS (QAM) with Multislot Packet Data, WAP and WAP Push	QA04223AA	QA04220AA
Enable BSI E2EE Enhanced Audio (Note this is only orderable by GMOI customer)	QA04375AA	QA04374AA

TEDS operation requires MSPD to be enabled since TEDS doesn't operate as Single Slot

Other, previously orderable features, are also available in MR5.14.10 / MR10.6.10



CPS Plus

MR5.14.10 / MR10.6.10 is supported from CPS Plus 6.1 onwards, however since CPS 6.2 will be available with MR5.14.10/MR10.6.10 it is recommended.

The version is: **R06.20.09.00** it replaces the previously issued CPS versions.

With new terminals the new CPS DVD should be ordered:

• GMVN6006A CPS Plus 6.2

Customers wishing to upgrade their terminals from previous releases should order the DVD appropriate to the encryption level already installed.

- GMVN6007A UPGRADE CPS 6.2 + CLR MR5.14.10/MR10.6.10
- GMVN6008A UPGRADE CPS 6.2 + TEA1 MR5.14.10/MR10.6.10
- GMVN6009A UPGRADE CPS 6.2 + TEA2 MR5.14.10/MR10.6.10
- GMVN6010A UPGRADE CPS 6.2 + TEA3 MR5.14.10/MR10.6.10
- GMVN6011A UPGRADE CPS 6.2 + TEA2+BSI E2EE

MR5.14.10/MR10.6.10

This CPS is compatible with TETRA terminals:

MTP3000 Series

MTP6000 Series

MTP830 FuG

MTP830 S

MTP850

MTP850 Class 3L

MTP850 FuG

MTP850 S

MTH800

MTM800

WI I WI800

MTM800E

MTM5000 Series

MTM800 FuG

MTM800 FuG ET

MTP810 EX

MTP850 EX

TOM100

MTC100

TCR1000

Encryption software upgrades must be ordered on COF from the European Software Factory as the usual export controls apply to



Ordering

All relevant part numbers and pricing can be found on the electronic catalogue pages (ECAT).

For APME Region

AZM83UCA6TZ5AN	MTM5200 806-870 DATA MT753C
AZM83UCS6TZ2AN	MTM5200 806-870 M'CYCLE MT753C
AZM83UCS6TZ4AN	MTM5200 806-870 DESK MT753C
AZM83UCS6TZ5AN	MTM5200 806-870 DASH MT753C
AZM83UCS6TZ6AN	MTM5200 806-870 REMOTE MT753C
AZM83UFA6TZ5AN	MTM5400 806-870 DATA MT753C
AZM83UFS6TZ2AN	MTM5400 806-870 M'CYCLE MT753C
AZM83UFS6TZ4AN	MTM5400 806-870 DESK MT753C
AZM83UFS6TZ5AN	MTM5400 806-870 DASH MT753C
AZM83UFS6TZ6AN	MTM5400 806-870 REMOTE MT753C
AZM83UFT6TZ6AN	MTM5500 806-870 REMOTE MT753C

800MHz is not available in EIA Region

The new 450MHz band MTM5200, MTM5400 and MTM5500 terminals may be ordered as follows:

For APME Region

AZM83RCA6TZ5AN	MTM5200 410-470 DATA MT553C
AZM83RCS6TZ2AN	MTM5200 410-470 M'CYCLE MT553C
AZM83RCS6TZ4AN	MTM5200 410-470 DESK MT553C
AZM83RCS6TZ5AN	MTM5200 410-470 DASH MT553C
AZM83RCS6TZ6AN	MTM5200 410-470 REMOTE MT553C
AZM83RFA6TZ5AN	MTM5400 410-470 DATA MT553C
AZM83RFS6TZ2AN	MTM5400 410-470 M'CYCLE MT553C
AZM83RFS6TZ4AN	MTM5400 410-470 DESK MT553C
AZM83RFS6TZ5AN	MTM5400 410-470 DASH MT553C
AZM83RFS6TZ6AN	MTM5400 410-470 REMOTE MT553C
AZM83RFT6TZ6AN	MTM5500 410-470 REMOTE MT553C

For EIA Region

MDM83RCA6TZ5AN	MTM5200 410-470 DATA MT553C
MDM83RCS6TZ2AN	MTM5200 410-470 M'CYCLE MT553C
MDM83RCS6TZ4AN	MTM5200 410-470 DESK MT553C
MDM83RCS6TZ5AN	MTM5200 410-470 DASH MT553C
MDM83RCS6TZ6AN	MTM5200 410-470 REMOTE MT553C
MDM83RFA6TZ5AN	MTM5400 410-470 DATA MT553C
MDM83RFS6TZ2AN	MTM5400 410-470 M'CYCLE MT553C
MDM83RFS6TZ4AN	MTM5400 410-470 DESK MT553C
MDM83RFS6TZ5AN	MTM5400 410-470 DASH MT553C
MDM83RFS6TZ6AN	MTM5400 410-470 REMOTE MT553C
MDM83RFT6TZ6AN	MTM5500 410-470 REMOTE MT553C
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Ordering continued

MR10.6.10 software is the first applicable release and is ordered with option:

GA01110AA ADD: MR10.6.10 SOFTWARE

The following new Ethernet and Telephone Style Control Head options are introduced:

minoaucca.	
GA01080AA	ADD: ETHERNET CH (ECH) REMOTE ARABIC
GA01081AA	ADD: TELEPHONE STYLE CH(TSCH) ARABIC
GA01082AA	ADD: DUAL ECH REMOTE ARABIC
GA01083AA	ADD: DUAL TSCH ARABIC
GA01084AA	ADD: DUAL CH MIX ECH AND TSCH ARABIC
GA01085AA	ADD: ETHERNET CH (ECH) REMOTE CYRILLIC
GA01086AA	ADD: TELEPHONE STYLE CH(TSCH) CYRILLIC
GA01087AA	ADD: DUAL ECH REMOTE CYRILLIC
GA01088AA	ADD: DUAL TSCH CYRILLIC
GA01089AA	ADD: DUAL CH MIX ECH AND TSCH CYRILLIC
GA01090AA	ADD: ETHERNET CH (ECH) REMOTE HEBREW
GA01091AA	ADD: TELEPHONE STYLE CH(TSCH) HEBREW
GA01092AA	ADD: DUAL ECH REMOTE HEBREW
GA01093AA	ADD: DUAL TSCH HEBREW
GA01094AA	ADD: DUAL CH MIX ECH AND TSCH HEBREW
GA01095AA	ADD: ETHERNET CH (ECH) REMOTE CHINESE
GA01096AA	ADD: TELEPHONE STYLE CH(TSCH) CHINESE
GA01097AA	ADD: DUAL ECH REMOTE CHINESE
GA01098AA	ADD: DUAL TSCH CHINESE
GA01099AA	ADD: DUAL CH MIX ECH AND TSCH CHINESE
GA01100AA	ADD: ETHERNET CH (ECH) REMOTE TAIWANESE
GA01101AA	ADD: TELEPHONE STYLE CH(TSCH) TAIWANESE
GA01102AA	ADD: DUAL ECH REMOTE TAIWANESE
GA01103AA	ADD: DUAL TSCH TAIWANESE
GA01104AA	ADD: DUAL CH MIX ECH AND TSCH TAIWANESE
GA01105AA	ADD: ETHERNET CH (ECH) REMOTE KOREAN
GA01106AA	ADD: TELEPHONE STYLE CH(TSCH) KOREAN
GA01107AA	ADD: DUAL ECH REMOTE KOREAN
GA01108AA	ADD: DUAL TSCH KOREAN
GA01109AA	ADD: DUAL CH MIX ECH AND TSCH KOREAN
	·

Note – these are new options specifically for MTM5500 and will be orderable as applicable to appropriate regions.

The 7.5 Watt loudspeaker RSN4003A is now also orderable as an option for use with MTM5000 series.

GA01176AA ADD: Speaker 7.5W

Another may be ordered as an option

GA01177AA ADD: 2nd SPEAKER, 7.5W

Please contact your usual Motorola channel partner account manager.

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Further information:



General Disclaimer

This Bulletin is issued by Motorola in line with its policy of continual review and update of product quality and effectiveness/performance. Implementation in accordance with the instructions is recommended by Motorola as we cannot accept any liability for product performance or quality if the recommendations are not implemented, or not implemented in compliance with the instructions herein.

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