

Motorola MTM5400

Enabling current and future critical communications



In the new MTM5400, you have a TETRA mobile radio that addresses both your current and future critical communication needs. The MTM5400 leverages the market proven rugged design of the MTM800 Enhanced radio, while introducing a platform ready for many advanced capabilities that set new standards for performance and usability.

KEY REQUIREMENTS OF FIRST RESPONDERS AND PROFESSIONAL USERS

Extended Operational Range

Tunnels. Indoor locations. Remote rural areas. Such environments are often challenged by weak network coverage, posing a hindrance to communications and compromising personnel safety.

Proposition: With its best in class RF sensitivity and 10W transmit power capability the MTM5400 sets a new landmark for TETRA RF performance. Through this exceptional RF capability, the MTM5400 delivers up to a 14% increase in the network's reach compared to similar radios in its class*.

This class leading RF performance can be combined with the radio's integrated DMO repeater and gateway functions to extend the operational range even further.

Flexible Installation

To meet the diversity of needs across critical communications users, solutions must offer flexible installation and configuration options.

Proposition: The MTM5400 mobile offers comprehensive and flexible installation options. The radio is fully DIN-A compatible, ideal for vehicle dash mount installations. It also supports a wide range of configurations including customised multiple control head, desk, and motorcycle install variants.

Efficient Data Sharing

Armed with data, first responders can be better prepared to detect, prevent and respond to incidents. Access to data can also transform the productivity of field operatives by enabling remote access to databases and the ability to send critical information to colleagues.

Proposition: In addition to supporting all the common TETRA data services including Short Data, Packet Data and Multi Slot Packet Data, the MTM5400 with its TEDS capability can transform workforce productivity with more than 20 times faster** data connectivity compared to TETRA Single Slot Packet Data. Mobile users can utilise existing data services and migrate to TEDS as service is rolled out across TETRA networks. The radio is also hardware ready for advanced local area networking applications including support for Ethernet, Wi-Fi and Bluetooth®.

Long Term Operational Performance

Professional users need to protect current investments in critical communications technology and must therefore ensure that new radio purchases not only operate efficiently but also are able to benefit from the latest advances in technology.

Proposition: The MTM5400 is compatible with all MTM800 Enhanced control heads and their associated accessories. With Over-the-Air Programming (OTAP) and background mode software update capabilities planned in future releases, MTM5400 radios will be remotely programmed in the field while still active - ground-breaking features that will soon transform work processes and drive step changes in productivity.

Direct Mode Gateway Mode

The MTM5400 features an integrated gateway that connects users operating in Direct Mode with control room staff and other colleagues on the trunked radio network. A comprehensive set of gateway services are supported, including configurable handling of individual and group calls.



^{*} This estimate of trunked mode operational range extension is based on the Hata urban propagation model, with no intermediate obstructions; based on published data specifications for competing radios; 400MHz channel; Mobile antenna +1dBi gain at 1.8m max height; 40dBm (10W) transmit power.

^{**} Theoretical data rates for TEDS are in the TETRA standards.

EXTENDED OPERATIONAL RANGE

The MTM5400 supports multiple modes of operation that enable enhanced workflow management and improved communications in areas where network coverage is weak or unpredictable. The integrated DMO Repeater is Type 1A compliant, operating on a just a single RF carrier for efficient spectrum usage.

Combining its best in class receive sensitivity with its 10W transmit power capability enables a DMO range extension of up to 12%* relative to the TETRA standard reference. Furthermore, with its scalable transmit power output, the MTM5400 allows users to balance the competing requirements of extended coverage and spectrum efficiency.

* This estimate of DMO range extension is based on mobile radio to the robotic to the robotic radio to the robotic radio to the robotic radio to the robotic radio rad



MTM5400





Vehicle dashboard configuration

Desktop configuration

Remote head configuration

 $We ather \ Resistant \ 'Motorcycle' \ model$

FLEXIBLE INSTALLATION OPTIONS

Vehicle dashboard configuration

A compact installation option - allows the MTM5400 to be deployed as a self-contained transceiver unit and control head in the vehicle dashboard. The configuration is fully compliant with the DIN-A standard for installation on car dashboards, making it easy to deploy.

Desktop configuration

A fully-integrated solution that is ideal for office environment, it features a base tray with a built-in loudspeaker and a sleek desk microphone. A wide range of other desktop accessories are also available.

Remote head configuration

By allowing multiple control heads to be installed remotely from the transceiver, the remote head option offers additional flexibility for vehicle and small control room installations. For fixed installations such as small control rooms, it allows the transceiver to be installed close to roof mounted antennas, enabling enhanced RF performance. Space constrained vehicle installations are also simplified through the separation of the transceiver and control head modules.

Weather Resistant 'Motorcycle' model

This solution features an IP67 ruggedized control head, making it ideal for any user requiring an environmentally-hardened, weather-resistant installation such as for motorcycles, fire-engine pump bays or inshore patrol boats.

Usability is enhanced by allowing control of the radio via external devices such as the control box next to the handgrip - simplifying common tasks such as talkgroup and volume level changes.

CUSTOM INSTALLATIONS. OPTIMISED PERFORMANCE.

Pump Bay Voice Terminals for Fire & Rescue

Custom Voice Terminals can be installed in the pump bay of a fire engine, providing an additional control point for Fire & Rescue teams.

Pump Bay Voice Terminal switch

Transfers control of the transceiver to the PBVT.

Integrated Vehicle Installations

By leveraging the Expansion Head's hardware and software API's, specialist integrated car solutions can be implemented, including customised control heads.

Customised Passenger Voice Terminals

Custom push to talk control points can be installed in train cabins, allowing communication between passengers and control room operators.

Integrated Passenger Information Systems

With its support of multiple PEI's (Peripheral Equipment Interface), the MTM5400 is capable of simultaneously updating Passenger Information Displays whilst also relaying GPS and status information to a control room.



Expansion Head

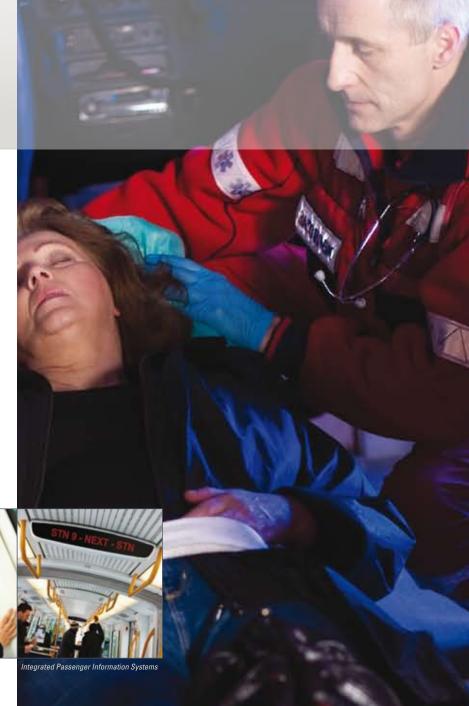




Pump Bay Voice Terminals for Fire & Rescue Pump Bay Voice Terminal switch

Integrated Vehicle Installations

Customised Passenger Voice Terminals





ENHANCED SAFETY. ELEVATED PERFORMANCE.

ENHANCED CONTROL HEAD*

- 640 X 480 PIXEL COLOUR VGA DISPLAY AND TACTILE KEYPAD
- USER CONFIGURABLE SHORTCUTS TO MENUS
 AND COMMON FEATURES
- 3 PROGRAMMABLE FUNCTION KEYS
- SUPPORT FOR DUAL CONTROL HEAD CONFIGURATIONS
- 4 X DIGITAL I/O, 1 X ANALOG I/O FOR CUSTOM INSTALLATIONS SUCH AS INTEGRATED VEHICLE SYSTEMS
- MOTOROLA GCAI SUPPORTING ENHANCED AUDIO
- RUGGEDIZED IP67 CONTROL HEAD VARIANT AVAILABLE, PROVIDING INCREASED DUST AND WATER RESISTANCE
- DUAL FUNCTION ROTARY WITH LOCK OPTION FOR TALKGROUP AND VOLUME CHANGES

* This is the same control head as that used for the MTM800 Enhanced radio.

While the MTM5400 retains the same user-friendly, cellular-style user interface found on portable and mobile product range, it also introduces innovations that will enhance safety of your personnel and enable high operational efficiency.





DESIGNED FOR THE FUTURE

Enhanced Integrated GPS

Knowing where your resources are enables you to allocate tasks in an efficient manner as well as to enhance the safety of your staff. Available as a licensable feature, the integrated GPS receiver provides accurate resource location information to control rooms via ETSI Location Information Protocol (LIP) or via the Motorola LRRP protocol.

Alternatively, GPS information can be interrogated via the comprehensive AT command set on the Peripheral Equipment Interface (PEI) to support user applications such as navigation.

Comprehensive Encryption

The MTM5400 supports a flexible suite of TETRA security functions, from Air Interface to End to End Encryption using either a Smartcard (internal or external) or Motorola's proven hardware based crypto engine.

Exceptional Audio Performance

The MTM5400 is built on our next generation audio architecture that delivers the loudest and clearest audio performance of any Motorola TETRA mobile available on the market.

Faster Connectivity

The integrated USB 2.0 PEI interface enables rapid radio programming and offers a high speed connection to data terminals and peripheral equipment.

Future Readiness

The transceiver interface has been designed with the necessary flexibility to support future connectivity and integration scenarios. This includes support for Ethernet and Wi-Fi local area networking and secure Bluetooth® wireless connectivity.

UNLEASHING THE POWER OF DATA



With its built-in support for TETRA Enhanced Data Service the MTM5400 takes secure data connectivity to a whole new level. Through a simple software upgrade, the radio can now provide 20 x faster TETRA data connectivity to back office systems, allowing transformed work processes and increased personnel productivity.

Over-The-Air Remote Terminal Management

Enabled via a future software release, this ground-breaking feature allows the radio to stay live while being remotely programmed and software upgraded. This capability maximises productivity by effectively eliminating radio downtime.

Enabling Field Dispatch Applications

From the powerful SDS Remote Control feature to the simultaneous support of Packet Data and AT commands on the PEI, the MTM5400 is packed with advanced features that are critical for developers of custom mobile command and control solutions.

Exemplifying the flexibility of these capabilities, Motorola has worked with a specialist partner to develop advanced mobile radio control applications for public safety agencies. Alongside tasks of controlling one or several TETRA digital radios, such applications can be used to process GPS position data interrogated from relevant radios and offer a variety of options for displaying the information on a mobile data terminal.

Reflecting our commitment to innovation, we have introduced unique features such as Call Out that can help you drive efficient resource mobilisation as well as enable immediate incident alerts and management. Our radio and infrastructure solutions can also enable the efficient use of pooled terminals and access control on a per user basis using the RUA/RUI Feature. You can use the WAP Push feature with the integrated WAP browser to deliver the right information to the right person at the right time and through our Radio Messaging Solution, allow improved operational efficiency in the field.

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MODELS - COMPLAINT WITH DIN 75490 (Dash		nstallation				
Desk	Compact radio for fast vehicle installation Compact radio, for use in the office. Optional range of accessories such as desk tray with integrated					
Multiple Remote Control Head	loudspeaker Radio with multiple remote mount control head capability. Range of installation options enable use in cars,					
Motorcycle	vans and other vehicles Environmentally enhanced radio meeting IP67 specification. Suitable for demanding environments such as materials for a policing and policy in tall times.					
Expansion head "Databox"	motorcycle, fire appliance and marine installations Radio without a control head, for data applications, or customised application development					
GENERAL						
	Dimensions HxWxD (mm)	Weight Typical (g)				
Dash and Desk models (transceiver + control head)	60x188x198	1300				
Transceiver only	45x170x169	1070				
Standard control head	60x188x31	230				
Remote control head	60x188x39	300				
Motorcycle control head	60x188x39	320				
USER INTERFACE & DISPLAY	Diagonal dimension	2.8"				
Display	Type Backlight	VGA - 640x480 pixels Transflective TFT, 65,000 colours Variable backlight, User configurable				
	Font sizes					
	Numeric	Standard & Zoom mode (90 pixels, 4.5mm high) characters Integral backlit numeric keypad of 12 keys, with keypad lock option				
	International keypad versions	Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters				
	Programmable function keys	3 programmable function keys (plus 10 programmable numeric keys)				
Buttons & Keypad	Navigation	4-way navigation key, menu and soft keys				
buttons & Reypau	Emergency	Emergency button with backlight				
	Shortcuts	User configurable shortcuts to menus and common features using "One- Touch-Button" feature				
Rotary	Dual function	Talkgroup and volume change with lock option				
	LED	Tri-colour LED				
Indication	Tones	Configurable notification tones				
User Interface Languages	Standard Options	Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian, Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish				
	User defined	User programmable, using ISO 8859-1 character				
Menu	Tailored to user needs					
	Menu Shortcuts					
0	Menu Configuration					
Contacts Management	Cellular Type					
Contact List	Up to 1000 contacts	2000				
Multiple Dialling Methods	Up to 6 numbers per contact, M User selects how to dial	ax 2000 numbers				
Fast/Flexible Call Response	Private Call Response to a Grou	n Callivia One Touch Button				
Multiple Ring Tones	Frivate Call nesponse to a drou	p Call via One Touch Bullon				
Message Manager	Collular Typo					
Text message list	Cellular Type 20					
Intelligent Keypad Text Input	20					
Status list	100					
Country/Network Code List	100					
Scan lists	40 lists of 20 groups					
Discrete Mode	10 1000 01 20 groups					
Screen Saver	GIF image & text (any user's selection)					
Universal Time Display						
Keypad Lock						
Talkgroup Folders	Dual layer folder structure (folder/subfolder) 256 folders					
Favourite Folders	Up to 3 (to store any favourite ta	ılkgroup)				
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature (°C)	-30 to +60					
Storage Temperature (°C)	-40 to +85					
Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3	Non-Weather Protected Storage Locations				
Not in use - Transportation	ETSI 300 019-1-2 CLASS 2.3	Public Transportation				
Stationary use - Weather Protected Locations	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Controlled Locations				
Mobile use - Ground Vehicle Installation	ETSI 300 019-1-5 CLASS 5.2	Climatic Tests				
Mobile use - Ground Vehicle Installation	ETSI 300 019-1-5 CLASS 5M3	Mechanical Tests				
MIL STD	810 C/D/E/F Specifications	All 11 categories met (or exceeded)				
	IP54 (dust cat. 2)	Dash/Desk/Remote models				
Dust and Water Ingress Protection	IP67	Motorcycle model (only control head is IP67;				

ELECTRICAL SPECIFICATIONS			
Voltage Range	10.8 to 15.6 V DC	0E / 1 0 / 1 2 / TV 2 4 A DL\	
	Idle / Rx / Tx @ 10W Idle / Rx / Tx @ 3W	0.5 / 1.0 / 1.2 (TX 3.4A Peak) 0.5 / 1.0 / .9 (TX 2.2A Peak)	
Current Consumption (A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	2.7	
ourrone oursumption (A, typ.)	Tx - TEDS @ 3W	2.3	
	Using USB host	Adds 0.5A	
RF SPECIFICATIONS			
Frequency Bands (MHz)	380 - 430		
Transmit / Receive Separation (MHz)	10		
TMO Switching Bandwidth (MHz) DMO Switching Bandwidth (MHz)	50		
RF Channel Bandwidth (kHz)	25		
The Original Dunawidan (KHZ)		Adjustable to Class 2 (10W), Class 2L (5.6W), Class 3 (3W)	
Transmitter RF Power	TETRA Release 1	Note: MSPD limited to Class 2L (5.6W)	
	TETRA Release 2 (TEDS)	Class 3 (3W)	
RF Power Control	6 Power Step Levels (steps of 5 dBm)	Starting at 15 dBm; finishing at 40 dBm	
RF Power Level Accuracy Receiver Class	+/- 2dB A & B		
Receiver Static Sensitivity (dBm)	-114 minimum, -116 typical		
Receiver Dynamic Sensitivity (dBm)	-105 minimum, -107 typical		
GPS SPECIFICATIONS			
Simultaneous Satellites	12		
Mode of Operation	Autonomous or assisted (A-GPS)		
GPS Antenna	Supports active antenna (5V, 25mA supply)		
Autonomous Acquisition Sensitivity	-143 dBm / -173 dBW		
Tracking Sensitivity Accuracy	-159 dBm / -189 dBW <5m (50% probable) <10m (95% probable)		
TTFF (HOT Start - Autonomous)	<1s		
TTFF (WARM Start - Autonomous)	<36s		
TTFF (COLD Start - Autonomous)	<36s		
Location Protocols	ETSI Location Information Protocol (LIP)		
	Motorola LRRP		
VOICE SERVICES	0040 (TMAO) 0 4004 (DMO)		
Talkgroups	2048 (TMO) & 1024 (DMO)	a 2000 a márica	
Phone book entries Scan lists		ax 2000 entries	
Scali lists		Late Entry, TMO/DMO Manning	
	Private call		
Trunked Mode (TMO) Services	Telephony (PABX, PSTN, MS-ISDN)	Full Duplex	
	DGNA	Up to 2047 groups	
	Scanning	Attachment signalling, supports SWMI initiated	
	-	attachment/detachment	
Direct Mode (DMO) Services			
		Emergency Group Call to ATTACHED talkgroup	
	Non-Tactical		
	Individual	Emergency Call to PREDEFINED party (half/full duplex)	
	Smart emergency	TMO/DMO/DMO to TMO automatic switching options	
Emergency (tailored by users)	Telaphony (PABX, PSTN, MS-ISDN) DGNA Up to 2047 groups Scanning Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Tactical Emergency Group Call to ATTACHED talkgroup Non-Tactical Emergency Group Call to DEDICATED talkgroup Individual Emergency Call to PREDEFINED party (half/full du Smart emergency TMO/DMO/DMO to TMO automatic switching opt Hot Mic Configurable timers for automatic open mic (talk without PTT) Location Location Location (GPS) sent with emergency Sent to individual or group address (selected or dedic Alarm (status message) Alias messages Options Can be sent via One-Touch or via menu		
	Location		
DATA SERVICES			
Status			
otatao	Options		
	Inbox	200 Entries (short messages),	
Chart Data Carriag (CDC)		40 Entries (long messages of up to 1000 characters)	
Short Data Service (SDS)	Cellular style iTAP predictive text entry Target Address	Sent to individual or group address (selected or dedicated)	
	Voice Call Interaction	SDS messages can be sent and received during a voice call	
		Data transmission with up to 4 slots supporting up to 28.8	
Doollot Data (BD)	kbit/s gross		
Packet Data (PD)	TETRA Enhanced Data Service (TEDS) (via software upgrade)	Supporting 25kHz and 50kHz channel bandwidths and	
		enabling practical data rates of up to 80kbit/s	
TEDS (acarable)	QAM Channels: 25 kHz and 50 kHz (but not D8PSK channels)		
TEDS (capable)	QAM modulation/coding modes: 4-QAM R1/2, 16-QAM R1/2, 64-QAM R1/2, and 64-QAM R2/3		
	Integrated WAP browser (including WAP-PUSH)	Integrated Openwave browser	
WAP		WAP 1.2.x and WAP 2.0 compatibility for UDP/IP Stack	
	Interface Protocol	AT Commands - Full Set ETSI Mandatory Compliant	
Peripheral Equipment Interface (PEI)		AT Multiplexer - 4 Virtual Physical Port (simultaneous PD,	
,		SDS, AT commands and Air Tracer SESSIONS)	
	Programmable via Motorola Integrated Terminal	TNP1; enables simultaneous PD and SDS sessions	
	Management (iTM) solution		
Terminal Management		Background Mode Programming (BMP) capable* - while	
	Over-The-Air Programming (OTAP) Mode* Capable	radio is operational (providing TETRA services) it is being	
		programmed/configured.	

GATEWAY SERVICES					
	Group voice calls from DMO to TMO				
	Group voice calls from TMO to DMO				
DATO TATO O	Emergency group call from DMO to TMO				
DMO/TMO Gateway	Emergency group call from TMO to DMO				
10	Transmission of Gateway Presence Signal				
(Specific services are software	Automatic detection and management of co-loc Call Pre-emption (in either direction)	ated bateways			
release dependent)		26) (TMO DMO			
	Configurable routing of SDS to console or PEI	SDS messaging from DMO to TMO (including GPS) or from TMO to DMO			
	Management of point to point calls and SDS me	seanes whilst operating as a Gateway			
REPEATER SERVICES	Wanagement of point to point cans and 355 me	sages will at operating as a dateway			
	Repeats DMO voice and tone signalling on select	cted talkgroup			
	Repeats SDS and Status messaging on selected				
DMO Repeater	ETSI type 1A DMO Repeater for channel efficient operation				
DIVIO nepeater	Transmission of Repeater Presence Signal				
(Specific services are software	Priority Call				
release dependent)	Emergency Call (Pre-emptive Priority Call)				
release dependent/	E2EE Encrypted DMO traffic				
	Monitoring of and participation in calls whilst in Rep	eater mode			
INTERESCE	Configurable Repeater Power Levels				
INTERFACES	For PEI (Four Virtual Ports via AT Multiplexer ena	ship DC annications to man simultaneously			
RS232	Packet Data, AT Commands, SDS, SCOUT)				
	USB 2.0 support for PEI (Two Virtual Ports via sta applications to run simultaneously Packet Data				
USB	USB 2.0 support for PEI (Four Virtual Ports via AT	Multiplexer enable PC applications to run			
000	simultaneously Packet Data, AT Commands, SDS, SCOUT); rapid programming				
	USB On-The-Go (host & slave) capability for intelligent PEI applications				
Dunned Assessmi Commenter	USB 1.1 support (Host Mode) to manage USB SI				
Rugged Accessory Connector (GCAI)	GCAI - Motorola accessory and ancillary interfa programming	ce for connection of accessories and			
(00/11)		7 (4 on remote and motorcycle control			
General Purpose Input/Output	Digital I/O	head, 3 on transceiver)			
delieral rurpose iliput/output	Analog input	4 (1 on remote and motorcycle control head, with 4 levels)			
SECURITY FEATURES		Head, With 4 levels)			
OEGOINT PEATONES	Algorithms	TEA1, TEA2, TEA3			
	Pagoridino				
	Class 1 (Clear), Class 2 (SCK), Class 3 (GCK				
Air Interface Encryption	Security Classes	Gateway and DMO Repeater requires			
		specific software release]			
	Authentication	Infrastructure initiated and made mutual			
	Authentication	by terminal			
Provisioning	Secure provisioning tool via Key Variable Loade	by terminal			
Provisioning		by terminal r (KVL)			
	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User	by terminal r (KVL) Based on login credentials, a radio user			
Provisioning User Access Control	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI)	by terminal r (KVL) Based on login credentials, a radio user can be limited to only those radio			
	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User	by terminal r (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service			
	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation	by terminal r (KVL) Based on login credentials, a radio user can be limited to only those radio			
User Access Control	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI)	by terminal r (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service			
User Access Control	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with			
User Access Control Data	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or			
User Access Control	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice E2EE Packet Data E2EE	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or			
User Access Control Data End to End Encryption (EtEE)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1 EN 303 035-2	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE Radio (R&TTE Article 3.2)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1 ETSI EN 300-392-2	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1 ETSI EN 300-392-2 EN 301 489-1 V1.3.1	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE Radio (R&TTE Article 3.2)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1 ETSI EN 300-392-2	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE Radio (R&TTE Article 3.2) EMC (R&TTE Article 3.1.b)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice E2EE Packet Data E2EE Short Data (SDS) E2EE EN 303 035-1 EFS IEN 300-394-1 ETSI EN 300-392-2 EN 301 489-1 VI.3.1 EN 301 489-18 VI.3.1	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE Radio (R&TTE Article 3.2) EMC (R&TTE Article 3.1.b) Electrical Safety (R&TTE Article 3.1.a)	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1 ETSI EN 300-392-2 EN 301 489-1 V1.3.1 EN 301 489-18 V1.3.1 EN 60950-1 (2001)	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			
User Access Control Data End to End Encryption (EtEE) REGULATORY COMPLIANCE Radio (R&TTE Article 3.2) EMC (R&TTE Article 3.1.b) Electrical Safety (R&TTE	Secure provisioning tool via Key Variable Loade PIN/PUK code access Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation Packet Data user authentication Voice EZEE Packet Data EZEE Short Data (SDS) EZEE EN 303 035-1 EN 303 035-2 ETSI EN 300-394-1 ETSI EN 300-392-2 EN 301 489-1 V1.3.1 EN 301 489-18 V1.3.1 EN 60950-1 (2001) EN 50350-2001 EME	by terminal (KVL) Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure Enhanced End to End Encryption with OTAR supported through AES128 or AES256 Hardware or SIM (via integrated)			



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