



IST doc.10 rev.1

TETRA Terminal Interoperability Certificate

October 2003

MOTOROLA

Manufacturer	Type	Software/Hardware Release No.	Period of testing
Motorola	MTH650	SW: D7C.31.31 HW: FUF 1762A	29 September 2003

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) has witnessed that the Motorola MTH650 is operating in accordance with:

TETRA Interoperability Profile:

TETRA MoU, TTR001- 05, Packet Data, Ver. 1.0.0, November 2000
TETRA MoU, TTR001- 09, Ambience Listening, Ver. 1.0.3, January 2002
TETRA MoU, TTR001-11, Air Interface Encryption, Ver. 1.0.0, December 2001

The test results for the tested features can be found in the tables of this certificate.

Authorised IOP test engineer
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Information on the equipments used for testing in the October 2003 IOP Test Session

The tests were performed using the following SwMI:

Manufacturer	Type	Software/Hardware Release No.
Motorola	Dimetra IP R5.1	ZC SW: R05.01.08.06 NM HW: R12.01.00.05 EBTS SW: TSC: R05.31.71 BRC: R05.21.42

Additional information about the test performed

The tests were performed in the LA1 and LA2 sites. The SwMI was operating with the following configuration:

MCC	238
MNC	1
Colour code	1
LA1 carrier frequency (BS Tx)	394,7625 MHz
LA2 carrier frequency (BS Tx)	393,0125 MHz
PSTN gateway SSI	16777184
Subscriber classes	FFFFE ₁₆

Note: TIP compliance testing focuses on functionality on the OSI model layers two, three and higher and therefore is frequency band independent.



IOP Test Plans used for testing

TETRA MoU, IOP001-05, Packet Data, Ver. 1.1.0

TETRA MoU, IOP001-09, Ambience Listening, Ver. 1.1.0

TETRA MoU, IOP001-11, Air Interface Encryption, Ver. 1.1.0

Test Results

The test results are shown in the tables below.

Test results and the certificates from previous IOP test session are available on TETRA MoU web site (<http://www.tetramou.com/interoperability>).

Tables indicate whether or not tests addressing a specific requirement of the TIP specification have been performed, whether or not the requirement is applicable for the SwMI, and the result of the test if executed. Each entry of the table may take one of seven values:

-	No test performed.
N/A	Not applicable for the SwMI
No	Not supported by Terminal
NTPA	No Test Plan/case Available
P	Pass
F	Fail
I	Inconclusive

The test results have been derived from examining the behaviour of a live system. The verdicts indicated are based on the log evaluation of the information exchange between the SwMI and the terminals indicated in the following tables. The verdicts reflect the fact that at the time of the IOP testing it was/was not possible to demonstrate a behaviour that was in accordance with the related requirement.

ISCTI has made every effort to ensure that tests are in accordance with the relevant TIPs. ISCTI has no liability for the test results, or towards the manufacturers.



Motorola SwMI		Motorola MTH650
PACKET DATA TTR 001-05		
7	Packet Data functions	
7.1	Context Activation	
7.1.1	TE IPCP Initiated, Static Address (TE supplied) Packet Data context activation, static IP address – 1.1.1	P
7.1.2	TE IPCP Initiated, Dynamic Address Packet Data context activation, dynamic IP address – 1.1.2	P
7.1.3	User Authentication using PAP Packet Data context activation, with PAP user authentication – 1.1.3	P
7.1.3	User Authentication using PAP Packet Data context activation, APN index selected – 1.1.5	N/A
7.1.4	User Authentication using CHAP Packet Data context activation, with CHAP user authentication – 1.1.4	P
7.1.5	Failed user authentication Packet Data context activation rejected, PAP user authentication – 1.1.7	P
7.1.5	Failed user authentication Packet Data context activation rejected, CHAP user authentication – 1.1.8	P
7.1.6	Provisioning Reject Packet Data context activation, activation rejected – 1.1.6	P
7.1.6	Provisioning Reject Packet Data context activation rejected, invalid APN index selected – 1.1.9	N/A
7.2	Context Deactivation	
7.2.1	MS initiated deactivation Packet Data context deactivation, MS initiated, AL established – 1.2.4	P
7.2.1	MS initiated deactivation Packet Data context deactivation, MS initiated, AL not established – 1.2.3	P
7.2.1.1	Explicit on SwMI PDCH access Data transmission, SwMI initiated PDCH access, MS reject – 1.3.7	P
7.2.2	SwMI initiated deactivation Packet Data context deactivation, SwMI initiated, AL not established – 1.2.1	P
7.2.2	SwMI initiated deactivation Packet Data context deactivation, SwMI initiated, AL established – 1.2.2	P
7.3	PDCH Access	
7.3.1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation – 1.3.1	P
7.3.1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL established – 1.3.3	P
7.3.1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation – 1.3.2	P
7.3.2	SwMI initiated access on the MCCH Data transmission, SwMI initiated PDCH access, AL not established – 1.3.4	P
7.3.3	MS Initiated Access Reject Data transmission, MS initiated PDCH access, SwMI reject – 1.3.6	P
7.4	SN Data transfer	
7.4	SN-DATA transfer Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation – 1.3.1	P
7.4	SN-DATA transfer PDCH Access, Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation – 1.3.2	P
7.4	SN-DATA transfer Data transmission, MS initiated PDCH access, AL established – 1.3.3	P
7.4	SN-DATA transfer Data transmission, SwMI initiated PDCH access, AL established – 1.3.5	P
7.4	SN-DATA transfer Data transmission, SwMI initiated PDCH access, AL not established – 1.3.4	P



Motorola SwMI		Motorola MTH650
7.5	End of Data	
7.5.1	Normal Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation – 1.3.1	P
7.5.1	Normal Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation - 1.3.2	P
7.5.1	Normal Data transmission, MS initiated PDCH access, AL established – 1.3.3	P
7.5.1	Normal Data transmission, SwMI initiated PDCH access, AL not established – 1.3.4	P
7.5.1	Normal Data transmission, SwMI initiated PDCH access, AL established – 1.3.5	P
7.5.1	Normal Cell re-selection during data transmission – 1.4.1	No
7.5.1	Normal Cell re-selection without data transmission at MS side, READY state – 1.4.2	P
7.5.1	Normal Cell re-selection without data transmission, STANDBY state – 1.4.3	P
7.6	Advanced Link Set-up	
7.6.1	MS Initiated AL Set-up Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation – 1.3.2	P
7.6.1	MS initiated AL Set-up Data transmission, SwMI initiated PDCH access, AL not established – 1.3.4	P
7.6.1	MS initiated AL Set-up Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation – 1.3.1	P
7.6.2	MS Initiated AL Reset Cell re-selection during data transmission – 1.4.1	No
7.7	Advanced Link Data Transfer	
7.7.1	Normal Down-link Data transmission, SwMI initiated PDCH access, AL not established – 1.3.4	P
7.7.1	Normal Down-link Data transmission, SwMI initiated PDCH access, AL established – 1.3.5	P
7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation – 1.3.1	P
7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL established – 1.3.3	P
7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation – 1.3.2	P
7.7.4	Normal Up-link Cell re-selection without data transmission, STANDBY state – 1.4.3	P
7.8	Advanced Link Disconnection	
7.8.1	MS initiated Context Deactivation Packet Data context deactivation, MS initiated, AL established – 1.2.4	P
7.8.2	SwMI initiated Context Deactivation Packet Data context deactivation, SwMI initiated, AL established – 1.2.2	P
7.10	Link Reconnect	
7.10.1	BS Data Cell re-selection without data transmission at MS side, READY state – 1.4.2	P
7.10.2	MS Data Cell re-selection during data transmission – 1.4.1	No
AMBIENCE LISTENING TTR 001-09		
2.5	SS-AL Signalling	
2.5.1	SS-AL Call set-up Ambience listening call set-up – 1.1	P
2.5.2	SwMI initiated disconnection of SS-AL call Ambience listening call set-up – 1.1	P



Motorola SwMI		Motorola MTH650
2.5.2	SwMI initiated disconnection of SS-AL call Ambience Listening Call set-up to MS that has an active PDP context – 1.5	P
2.5.4	Affected user MS receives a new call request from the SwMI during SS-AL call Ms makes a new individual call during Ambience Listening call – 1.2	P
2.5.5.1	PDP context activation during SS-AL call MS activates PDP context during Ambience Listening call – 1.3	P
2.5.5.2	MS attempts to start a packet data instance during SS-AL call MS starts Packet Data transfer during Ambience Listening call – 1.4	P
2.5.5.4	SS-AL call set-up to MS that has an active PDP context Ambience Listening Call set-up to MS that has an active PDP context – 1.5	P
AIE TTR 001-11		
2.3.5	DCK Retrieval supported by SwMI	
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	P
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	-
2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	P
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	P



Motorola SwMI		Motorola MTH650
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	N/A
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	P
2.3.6	Security Class 2, Location update	
2.3.6	Security Class 2 Registration with encryption applied. Authentication not required by SwMI – 1.1.1	-
2.3.6	Security Class 2 Registration with encryption applied. Authentication required by SwMI – 1.1.2	-
2.3.6	Security Class 2 Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
2.3.6	Security Class 2 Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
2.3.6	Security Class 2 Undeclared cell re-selection – 1.2.1	-
2.3.6	Security Class 2 Unannounced cell re-selection – 1.2.2	-
2.3.7	Security Class 3, Location update	
2.3.7	Security Class 3 Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	P
2.3.7	Security Class 3 Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	P
2.3.7	Security Class 3 Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A
2.3.7	Security Class 3 Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A
2.3.7	Security Class 3 Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.3.7	Security Class 3 Undeclared cell re-selection, encrypted location update, using DCK retrieval, including request for CCK – 2.2.1.5	-
2.3.7	Security Class 3 Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	P
2.3.7	Security Class 3 Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.3.7	Security Class 3 Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.3.7	Security Class 3 Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A



Motorola SwMI		Motorola MTH650
2.3.7	Security Class 3 Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.3.7	Security Class 3 Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.7	Security Class 3 Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.7	Security Class 3 Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	P
2.3.7	Security Class 3 Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	N/A
2.3.7	Security Class 3 Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.3.7	Security Class 3 Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.3.7	Security Class 3 Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.3.7	Security Class 3 Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	P
2.3.7	Security Class 3 Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	N/A
2.3.7	Security Class 3 Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	N/A
2.3.7	Security Class 3 SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	P
2.3.8	DCK Forwarding using announced type 1 cell re-selection	
2.3.8	DCK Forwarding using announced type 1 cell re-selection SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	N/A
2.3.9	DCK Forwarding using announced type 2 cell re-selection	
2.3.9	DCK Forwarding using announced type 2 cell re-selection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	N/A
2.3.9	DCK Forwarding using announced type 2 cell re-selection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	N/A
2.3.9	DCK Forwarding using announced type 2 cell re-selection SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL	
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A



Motorola SwMI		Motorola MTH650
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	-
2.3.11	Change of Security Class or Cipher Key on the serving cell	
2.3.11	Change of Security Class or Cipher Key on the serving cell SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS – 2.5.1	P
2.3.11	Change of Security Class or Cipher Key on the serving Cell SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	P
2.3.11	Change of Security Class or Cipher Key on the serving cell SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	P
2.3.11.4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS – 2.5.1	P
2.3.11.4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	P
2.3.11.4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	P
2.3.11.5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS – 2.5.1	N/A
2.3.11.5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving Cell during group call -	N/A
2.3.11.5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	N/A
2.3.15.1	MS CCK Management SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	P
2.3.16	Call Related Signalling	
2.3.16	Call Related Signalling Call from class 2 MS to Class 2 MS 1.3.1.1	-
2.3.16	Call Related Signalling Call from class 2 MS to Class 1 MS – 1.3.1.2	-
2.3.16	Call Related Signalling Call from class 1 MS to Class 2 MS – 1.3.1.3	-
2.3.16	Call Related Signalling Call from Class 2 MS to Class 2 Group – 1.3.2.1	-



Motorola SwMI		Motorola MTH650
2.3.16	Call Related Signalling Call from class 2 MS to Class 1 – 1.3.2.2	-
2.3.16	Call Related Signalling Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.3.16	Call Related Signalling Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.3.16	Call Related Signalling Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.3.16	Call Related Signalling Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.3.16	Call Related Signalling Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.16	Call Related Signalling Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.16	Call Related Signalling Encrypted individual call from Class 3 MS to Class 3 MS – 2.3.1.1	P
2.3.16	Call Related Signalling Individual call from Class 3 MS to Class 1 MS – 2.3.1.2	P
2.3.16	Call Related Signalling Individual call from Class 1 MS to Class 3 MS – 2.3.1.3	P
2.3.16	Call Related Signalling Encrypted group call from Class 3 MS to Class 3 Group – 2.3.2.1	P
2.3.16	Call Related Signalling Group call from Class 3 MS to Class 1 Group – 2.3.2.2	P
2.3.17	Call Unrelated Signalling	
2.3.17	Call Unrelated Signalling Status from Class 2 MS in Class 1 Group call to idle Class 2 MS – 1.4.1	N/A
2.3.17	Call Unrelated Signalling Status from idle Class 2 MS to Class 2 MS in Class 1 group call – 1.4.2	N/A
2.3.17	Call Unrelated Signalling Status from Class 3 MS in Class 1 Group call to Class 3 MS – 2.4.1	N/A
2.3.17	Call Unrelated Signalling Status from Class 3 MS to Class 3 MS in Class 1 Group call – 2.4.2	N/A
2.3.20	AI Signalling Protection	
2.3.20	AI Signalling Protection Registration with encryption applied. Authentication not required by SwMI – 1.1.1	-
2.3.20	AI Signalling Protection Registration with encryption applied. Authentication required by SwMI – 1.1.2	-
2.3.20	AI Signalling Protection Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
2.3.20	AI Signalling Protection Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
2.3.20	AI Signalling Protection Undeclared cell re-selection – 1.2.1	-
2.3.20	AI Signalling Protection Unannounced cell re-selection – 1.2.2	-
2.3.20	AI Signalling Protection Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	P
2.3.20	AI Signalling Protection Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	P
2.3.20	AI Signalling Protection Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A



Motorola SwMI		Motorola MTH650
2.3.20	AI Signalling Protection Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A
2.3.20	AI Signalling Protection Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.3.20	AI Signalling Protection Undeclared cell re-selection, encrypted location update using retrieval, including request for CCK – 2.2.1.5	-
2.3.20	AI Signalling Protection Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	P
2.3.20	AI Signalling Protection Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.3.20	AI Signalling Protection Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.3.20	AI Signalling Protection Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.3.20	AI Signalling Protection Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.3.20	AI Signalling Protection Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.20	AI Signalling Protection Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.20	AI Signalling Protection Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	P
2.3.20	AI Signalling Protection Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	N/A
2.3.20	AI Signalling Protection Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.3.20	AI Signalling Protection Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.3.20	AI Signalling Protection Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.3.20	AI Signalling Protection Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	P
2.3.20	AI Signalling Protection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	N/A
2.3.20	AI Signalling Protection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	N/A
2.6	Signalling Scenarios	
2.6.2	MS-initiated location updating with SCK ciphering, no SCK request, no authentication Registration with encryption applied. Authentication not required by SwMI – 1.1.1	-



Motorola SwMI		Motorola MTH650
2.6.2	MS-initiated location updating with SCK ciphering, no SCK request, no authentication Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
2.6.3	MS-initiated location updating with SCK ciphering, and authentication Registration with encryption applied. Authentication required by SwMI – 1.1.2	-
2.6.3	MS-initiated location updating with SCK ciphering, and authentication Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	P
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	P
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	P
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	N/A
2.6.6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A



Motorola SwMI		Motorola MTH650
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	P
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for DCK – 2.2.3.6	P
2.6.7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	N/A



Motorola SwMI		Motorola MTH650
2.6.8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for DCK – 2.2.3.6	N/A
2.6.8	MS-initiated location updating with DCK ciphering and authentication Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	-
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	N/A
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.6.9	MS-initiated location updating with DCK ciphering and CCK request Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	N/A

Comments: