



IST doc.10 rev.1

# TETRA Terminal Interoperability Certificate

October 2003

**MOTOROLA**

Manufacturer	Type	Software/Hardware Release No.	Period of testing
<b>Motorola</b>	<b>MTM700</b>	<b>SW: R75.31.20</b> <b>HW: PMUE 1840A</b>	<b>30 September 2003</b>

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) has witnessed that the Motorola MTM700 is operating in accordance with:

## TETRA Interoperability Profile:

TETRA MoU, TTR001- 04, Authentication, 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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Radio Office Manager  
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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 <sub>16</sub>

**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, IOP001-04, Authentication, 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.
<b>N/A</b>	Not applicable for the SwMI
<b>No</b>	Not supported by Terminal
<b>NTPA</b>	No Test Plan/case Available
<b>P</b>	Pass
<b>F</b>	Fail
<b>I</b>	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.



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
<b>AUTHENTICATION TTR 001-04</b>		
<b>7</b>	<b>Authentication functions</b>	
7.1	<b>SwMI initiated authentication</b> Successful ITSI attach with authentication – 1.1.1	<b>P</b>
7.1	<b>SwMI initiated authentication</b> Rejected registration, authentication failure – 1.1.2	<b>P</b>
7.1	<b>SwMI initiated authentication</b> Successful roaming location update with authentication – 1.1.3	<b>P</b>
<b>AMBIENCE LISTENING TTR 001-09</b>		
<b>2.5</b>	<b>SS-AL Signalling</b>	
2.5.1	<b>SS-AL Call set-up</b> Ambience listening call set-up – 1.1	<b>P</b>
2.5.2	<b>SwMI initiated disconnection of SS-AL call</b> Ambience listening call set-up – 1.1	<b>P</b>
2.5.2	<b>SwMI initiated disconnection of SS-AL call</b> Ambience Listening Call set-up to MS that has an active PDP context – 1.5	<b>P</b>
2.5.4	<b>Affected user MS receives a new call request from the SwMI during SS-AL call</b> Ms makes a new individual call during Ambience Listening call – 1.2	<b>P</b>
2.5.5.1	<b>PDP context activation during SS-AL call</b> MS activates PDP context during Ambience Listening call – 1.3	<b>P</b>
2.5.5.2	<b>MS attempts to start a packet data instance during SS-AL call</b> MS starts Packet Data transfer during Ambience Listening call – 1.4	<b>P</b>
2.5.5.4	<b>SS-AL call set-up to MS that has an active PDP context</b> Ambience Listening Call set-up to MS that has an active PDP context – 1.5	<b>P</b>
<b>AIE TTR 001-11</b>		
<b>2.3.5</b>	<b>DCK Retrieval supported by SwMI</b>	
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	<b>P</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	<b>N/A</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	<b>N/A</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	<b>N/A</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	<b>-</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	<b>P</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	<b>P</b>



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
2.3.5	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.5	<b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.5	<b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	P
2.3.5	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> 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	<b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.3.5	<b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	P
2.3.6	<b>Security Class 2, Location update</b>	
2.3.6	<b>Security Class 2</b> Registration with encryption applied. Authentication not required by SwMI – 1.1.1	P
2.3.6	<b>Security Class 2</b> Registration with encryption applied. Authentication required by SwMI – 1.1.2	P
2.3.6	<b>Security Class 2</b> Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
2.3.6	<b>Security Class 2</b> Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
2.3.6	<b>Security Class 2</b> Undeclared cell re-selection – 1.2.1	P
2.3.6	<b>Security Class 2</b> Unannounced cell re-selection – 1.2.2	P
2.3.7	<b>Security Class 3, Location update</b>	
2.3.7	<b>Security Class 3</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	P
2.3.7	<b>Security Class 3</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	P
2.3.7	<b>Security Class 3</b> 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	<b>Security Class 3</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	N/A



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
2.3.7	<b>Security Class 3</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Undeclared cell re-selection, encrypted location update, using DCK retrieval, including request for CCK – 2.2.1.5	-
2.3.7	<b>Security Class 3</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	<b>P</b>
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	<b>P</b>
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.7	<b>Security Class 3</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	<b>P</b>
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	<b>P</b>
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
2.3.7	<b>Security Class 3</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	<b>P</b>
2.3.7	<b>Security Class 3</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	<b>N/A</b>
2.3.7	<b>Security Class 3</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	<b>N/A</b>
2.3.7	<b>Security Class 3</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>P</b>
2.3.8	<b>DCK Forwarding using announced type 1 cell re-selection</b>	
2.3.8	<b>DCK Forwarding using announced type 1 cell re-selection</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>N/A</b>



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
<b>2.3.9 DCK Forwarding using announced type 2 cell re-selection</b>		
<b>2.3.9</b>	<b>DCK Forwarding using announced type 2 cell re-selection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	<b>N/A</b>
<b>2.3.9</b>	<b>DCK Forwarding using announced type 2 cell re-selection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	<b>N/A</b>
<b>2.3.9</b>	<b>DCK Forwarding using announced type 2 cell re-selection SwMI</b> initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>N/A</b>
<b>2.3.10 DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b>		
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	<b>N/A</b>
<b>2.3.10</b>	<b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>-</b>
<b>2.3.11 Change of Security Class or Cipher Key on the serving cell</b>		
<b>2.3.11</b>	<b>Change of Security Class or Cipher Key on the serving cell</b> SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS – 2.5.1	<b>P</b>
<b>2.3.11</b>	<b>Change of Security Class or Cipher Key on the serving Cell</b> SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	<b>P</b>
<b>2.3.11</b>	<b>Change of Security Class or Cipher Key on the serving cell</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>P</b>
<b>2.3.11.4</b>	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b> SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS – 2.5.1	<b>P</b>
<b>2.3.11.4</b>	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b> SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	<b>P</b>
<b>2.3.11.4</b>	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS – 2.5.3	<b>P</b>



Motorola SwMI		Motorola MTM700
2.3.11.5	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b> 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	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b> SwMI initiated change of CCK on the serving Cell during group call -	N/A
2.3.11.5	<b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b> 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	<b>MS CCK Management</b> SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS – 2.5.2	P
2.3.16	<b>Call Related Signalling</b>	
2.3.16	<b>Call Related Signalling</b> Call from class 2 MS to Class 2 MS 1.3.1.1	P
2.3.16	<b>Call Related Signalling</b> Call from class 2 MS to Class 1 MS – 1.3.1.2	P
2.3.16	<b>Call Related Signalling</b> Call from class 1 MS to Class 2 MS – 1.3.1.3	P
2.3.16	<b>Call Related Signalling</b> Call from Class 2 MS to Class 2 Group – 1.3.2.1	P
2.3.16	<b>Call Related Signalling</b> Call from class 2 MS to Class 1 – 1.3.2.2	P
2.3.16	<b>Call Related Signalling</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	P
2.3.16	<b>Call Related Signalling</b> 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	<b>Call Related Signalling</b> 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	<b>Call Related Signalling</b> 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	<b>Call Related Signalling</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
2.3.16	<b>Call Related Signalling</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.3.16	<b>Call Related Signalling</b> Encrypted individual call from Class 3 MS to Class 3 MS – 2.3.1.1	P
2.3.16	<b>Call Related Signalling</b> Individual call from Class 3 MS to Class 1 MS – 2.3.1.2	P
2.3.16	<b>Call Related Signalling</b> Individual call from Class 1 MS to Class 3 MS – 2.3.1.3	P
2.3.16	<b>Call Related Signalling</b> Encrypted group call from Class 3 MS to Class 3 Group – 2.3.2.1	P
2.3.16	<b>Call Related Signalling</b> Group call from Class 3 MS to Class 1 Group – 2.3.2.2	P
2.3.17	<b>Call Unrelated Signalling</b>	
2.3.17	<b>Call Unrelated Signalling</b> Status from Class 2 MS in Class 1 Group call to idle Class 2 MS – 1.4.1	N/A
2.3.17	<b>Call Unrelated Signalling</b> Status from idle Class 2 MS to Class 2 MS in Class 1 group call – 1.4.2	N/A
2.3.17	<b>Call Unrelated Signalling</b> Status from Class 3 MS in Class 1 Group call to Class 3 MS – 2.4.1	N/A
2.3.17	<b>Call Unrelated Signalling</b> Status from Class 3 MS to Class 3 MS in Class 1 Group call – 2.4.2	N/A





<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b>	
<b>2.3.20</b>	<b>AI Signalling Protection</b> Registration with encryption applied. Authentication not required by SwMI – 1.1.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Registration with encryption applied. Authentication required by SwMI – 1.1.2	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
<b>2.3.20</b>	<b>AI Signalling Protection</b> Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection – 1.2.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection – 1.2.2	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.1.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.1.4	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection, encrypted location update using retrieval, including request for CCK – 2.2.1.5	-
<b>2.3.20</b>	<b>AI Signalling Protection</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.2.2	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.2.4	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-
<b>2.3.20</b>	<b>AI Signalling Protection</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.3.2	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	<b>N/A</b>



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK – 2.2.3.4	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	-
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.3.6	<b>P</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK – 2.2.4.1	<b>N/A</b>
<b>2.3.20</b>	<b>AI Signalling Protection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	<b>N/A</b>
<b>2.6</b>	<b>Signalling Scenarios</b>	
<b>2.6.2</b>	<b>MS-initiated location updating with SCK ciphering, no SCK request, no authentication</b> Registration with encryption applied. Authentication not required by SwMI – 1.1.1	<b>P</b>
<b>2.6.2</b>	<b>MS-initiated location updating with SCK ciphering, no SCK request, no authentication</b> Registration without encryption applied. Authentication not required by SwMI – 1.1.3	-
<b>2.6.3</b>	<b>MS-initiated location updating with SCK ciphering, and authentication</b> Registration with encryption applied. Authentication required by SwMI – 1.1.2	<b>P</b>
<b>2.6.3</b>	<b>MS-initiated location updating with SCK ciphering, and authentication</b> Registration without encryption applied. Authentication required by SwMI – 1.1.4	-
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied – 2.1.1	<b>P</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including	<b>P</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	<b>N/A</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	<b>N/A</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.2.1	<b>P</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.2.3	<b>N/A</b>
<b>2.6.6</b>	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	<b>N/A</b>



Motorola SwMI		Motorola MTM700
2.6.6	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK – 2.2.1.2	N/A
2.6.7	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	P
2.6.7	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	P
2.6.7	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for DCK – 2.2.3.6	P
2.6.7	<b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> 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



Motorola SwMI		Motorola MTM700
2.6.8	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.1.6	N/A
2.6.8	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK – 2.2.2.6	N/A
2.6.8	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and authentication</b> 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	<b>MS-initiated location updating with DCK ciphering and CCK request</b> 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	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.1.5	-
2.6.9	<b>MS-initiated location updating with DCK ciphering and CCK request</b> 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	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK –	N/A
2.6.9	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.2.5	-



<b>Motorola SwMI</b>		<b>Motorola MTM700</b>
<b>2.6.9</b>	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.1.3	<b>N/A</b>
<b>2.6.9</b>	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK – 2.2.3.1	<b>N/A</b>
<b>2.6.9</b>	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK – 2.2.3.3	<b>N/A</b>
<b>2.6.9</b>	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK – 2.2.3.5	<b>-</b>
<b>2.6.9</b>	<b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK – 2.2.4.2	<b>N/A</b>

**Comments:**