

# TETRA Interoperability Certificate

## Motorola Solutions, Dimetra IP R8.2, SwMI – Motorola Solutions, MTM5200, Terminal

Krakow, April 2014

Latest Certified SwMI SW Release:	8.2	Latest Certified Terminal SW Release:	MR10.6.10
Latest Certified SwMI HW Release:	Dimetra IP R8.2	Latest Certified Terminal HW Release:	MT953C

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola Solutions, Dimetra IP R8.2, SwMI and the Motorola Solutions, MTM5200, terminal have been subject to interoperability testing for the “certified” features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is “Certified” when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a fully witnessed multi test session between Motorola Solutions and Motorola Solutions on April 2014. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

This v3 Certificate has been re-issued, because it has been recognized that the change of declarations for group addressed Full Callout was in contradiction with the TIC process. The result of the Callout tests 3.1.1 and 3.1.2 are not valid because the Callout host application simulator which was used to support the testing was not TIP compliant. To reflect this fact the test result “Not Applicable” (N/A) was applied to these two tests.

**IOP test engineer**



Roberto Feroci

**Head of the Procedure**



Ivano Luciani

**Radio Office Manager**

Giuseppe Pierri  


ISCTI - V.le America 201, 00144 Rome, Italy  
Ph.: +39 06 5444 2663, Fax: +39 06 5410904  
e-mail: [tetra\\_ctc.iscom@mise.gov.it](mailto:tetra_ctc.iscom@mise.gov.it)  
Web: [www.mise.gov.it](http://www.mise.gov.it)

**Date of issue**

**24 March 2016**

**v3**

## Certified features

<b>Tetra Association TTR001-01:Core</b>	
<b>Registration</b>	Certified
<b>Group Management</b>	Certified
<b>Group call</b>	Certified
<b>Individual call</b>	Certified
<b>Status messages</b>	Certified
<b>Pre-emptive Priority Call</b>	Certified
<b>Emergency Call</b>	Certified
<b>Cell Re-selection</b>	Certified
<b>PSTN interconnect</b>	Certified
<b>MS-ISDN Numbering</b>	-
<b>In Call Signalling</b>	Certified
<b>Subscriber Class Procedures</b>	Certified
<b>Common Secondary Control Channels</b>	Certified
<b>BS Fallback Operation</b>	Certified
<b>Energy Economy Mode</b>	-
<b>Transmit Inhibit</b>	Certified
<b>Mixed band operation</b>	Certified
<b>Tetra Association TTR001-02:SDS</b>	
<b>SDS Type 1, 2 or 3</b>	-
<b>SDS-TL</b>	Certified
<b>Store and Forward</b>	Certified
<b>Tetra Association TTR001-03:DGNA</b>	
<b>Support for individually addressed DGNA</b>	-
<b>Support for group addressed DGNA</b>	Certified
<b>Tolerance of unsupported DGNA functions</b>	-

<b>Tetra Association TTR001-04:Auth</b>	
<b>SwMI Initiated (non-mutual) Authentication</b>	Certified
<b>SwMI Initiated Authentication made Mutual by MS</b>	Certified
<b>TEI Query</b>	-
<b>Tetra Association TTR001-05:PD</b>	
<b>Context Management</b>	Certified
<b>Single Slot Packet Data</b>	Certified
<b>Multi Slot Packet Data</b>	Certified
<b>TEDS</b>	Certified
<b>Mixed band operation</b>	Certified
<b>Tetra Association TTR001-09:AL</b>	
<b>Ambience Listening</b>	-
<b>Interaction with Transmit Inhibit</b>	Certified
<b>Tetra Association TTR001-10:E2EE</b>	
<b>E2EE Voice Call</b>	Certified
<b>Tetra Association TTR001-11:AIE</b>	
<b>Security Class 2 Air Interface Encryption</b>	Certified
<b>Security Class 3 Air Interface Encryption</b>	Certified
<b>Security Class 3G Air Interface Encryption</b>	Certified
<b>Change of CMG and GSKO</b>	Certified
<b>Key Status demand</b>	Certified
<b>Change of Security Class for Fallback operation</b>	Certified
<b>Change of Security Class (other than for Fallback operation)</b>	Certified
<b>Key Management for Secure Direct Mode Operation</b>	Certified
<b>Tetra Association TTR001-12:SI</b>	
<b>MS initiated Service Interaction</b>	Certified
<b>SwMI initiated Service Interaction</b>	Certified
<b>Call Waiting</b>	-

<b>Tetra Association TTR001-13:ED</b>	
<b>Enable and temporary disable of an MS</b>	Certified
<b>Permanent disable of an MS</b>	Certified
<b>Tetra Association TTR001-14:TKD</b>	
<b>Delivery of Authentication Data</b>	Certified
<b>Delivery of SCK</b>	Certified
<b>Delivery method</b>	Certified
<b>Tetra Association TTR001-17:RUA</b>	
<b>Radio User Assignment</b>	Certified
<b>Tetra Association TTR001-19:LIP</b>	
<b>Location Information Protocol</b>	Certified
<b>Tetra Association TTR001-21:Callout</b>	
<b>Full Callout</b>	Certified
<b>Simple Callout</b>	-
<b>Interaction with other services and events</b>	Certified
<b>Callout Test and Callout Availability</b>	-
<b>Callout Text and Callout Pre-Coded Status</b>	Certified
<b>Storage of Callout Information</b>	Certified

# Feature Compliance Overview

The first pages of this certificate provide an indication about the main interoperable TETRA features for each TIP specification (as described in the TIC-RT). The main interoperable TETRA features result depend on a set of sub-feature, the outcomes associated to each sub-feature are directly derived from the analysis of the performed test cases.

The results associated to each feature and sub-feature are shown in the "Feature compliance report" table below. The main features are indicated with grey background and the associated sub-features (or second level features) have light blue background.

The outcome assigned to a sub-feature as shown on page 2, is derived by the Feature compliance report tables.

Outcome	Definition
<b>Certified</b>	All required tests have been performed and passed
<b>Partial</b>	Not all the required tests have been performed but none have failed
-	Feature cannot be certified e.g. it is not supported by at least one product, no tests were performed, or some tests were performed but at least one failed

The outcome is derived from the verdict assigned to a sub feature which is the result of an analysis of the test case results listed in the Test Report. The verdict assigned to each sub-feature is derived from one or several test case results or test steps result, the TETRA Interoperability requirement tables (TIC-RTs) indicate the link between sub-features and test cases for the certified set of equipment capabilities (see Test Report).

Verdict	Definition
<b>Passed</b>	All mandated tests or steps of tests linked to this functionality (as per TIC-RT indication) are compliant with the TIP specification relevant to this feature.
<b>Incomplete</b>	Not all Mandated tests (as per TIC-RT indication) have been executed
<b>Failed</b>	At least one of mandated test or steps of tests linked to this functionality failed to match the TIP specification relevant to this feature.

The verdict associated to the feature gives also indication about the method used to test that feature. The allowed testing Methods are listed in the table below, a complete description of the procedures and constraints associated to each of them can be found in the "TPD001-01 TETRA Interoperability Certification Process Description" document.

Testing Method	Description
<b>Complete</b>	All mandated tests associated to the feature have been executed
<b>Spot</b>	Only a selection of the mandatory test cases associated to the feature has been executed during the test session. These tests are a subset of the tests performed on an equivalent software which has been "completely" tested against the same functionality on a different equipment, see manufacturer declaration in the associated Test Report
<b>Regression</b>	Only a selection of the mandatory test cases associated to the feature has been executed during the test session. These tests are a subset of the tests performed on a previous version of the same software which has been "completely" tested in a previous test session against the same functionality, see manufacturer definition in the associated Test Report
<b>Regression on spot</b>	The regression method has been applied on the verdicts based on the spot testing method
<b>Witnessed</b>	The TIP heading lines in the Feature Compliance Report indicate whether each TIP is partially or fully witnessed by the Certification Body. Additionally, for a partially-witnessed TIP, the number of witnessed test cases that passed is shown for each the feature and sub-feature. There may have been some un-witnessed passed tests and they will have been found to be successful based on the log file evaluation.

Depending on equipment capabilities declared by the manufacturer, some features or sub features cannot be tested. The following table describes meaning of the used abbreviation:

Indication	Definition
<b>Not supported</b>	The SwMI and/or MS do not support the minimum features required to verify these items

ISCTI has made every effort to ensure that every result has been correctly evaluated in accordance with the relevant TIPs, Test Plans and TIC-RTs. ISCTI has no liability for the test results, or towards the manufacturers.

The table on the following page lists HW and SW releases of SwMI and Terminal under test in the last four test sessions and the used TIP specifications, Test Plans and TIC-RTs.

This Certificate and Certificates from previous test sessions are available on the TETRA + Critical Communications Association web site (<http://www.tandcca.com/interop/page/12476>).

The feature results are shown in the tables below.

### Information on equipment under test and document references

Test Session Date/Place	Motorola Solutions Krakow April 2014			
SwMI Type	Dimetra IP R8.2			
SwMI HW Release	Dimetra IP R8.2			
SwMI SW Release	8,2			
Terminal Type	MTM5200			
Terminal HW Release	MT953C			
Terminal SW Release	MR10.6.10			
SwMI Callout Application simulator SW release	1.1			
TIP Specs and TIP Compliance Test Plans				
Core	TTR001-01 v6.0.0 IOP001-01 v3.0.0 TIC-RT001-01 v260			

SDS	TTR001-02 v2.1.1 IOP001-02 v2.0.0 TIC-RT001-02 v213			
DGNA	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v222			
Auth	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v223			
PD	TTR001-05 v3.0.0 IOP001-05 v3.0.5 TIC-RT001-05 v305			
AL	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v122			
E2EE	TTR001-10 v2.0.0 IOP001-10 v1.1.4 TIC-RT001-10 v122			
AIE	TTR001-11 v3.0.3 IOP001-11 v3.0.2 TIC-RT001-11 v325			
SI	TTR001-12 v1.0.0 IOP001-12 v1.0.0 TIC-RT001-12 v127			
ED	TTR001-13 v2.0.0 IOP001-13 v1.0.0 TIC-RT001-13 v146			
TKD	TTR001-14 v1.0.3 IOP001-14 v1.0.0 TIC-RT001-14 v117			
RUA	TTR001-17 v1.0.1 IOP001-17 v1.0.0 TIC-RT001-17 v108			
LIP	TTR001-19 v1.0.0 IOP001-19 v1.0.0 TIC-RT001-19 v105			



Callout	TTR001-21 v1.0.0 IOP001-21 v1.0.0 TIC-RT001-21 v103			
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# Feature compliance report

Test Session	Motorola Solutions Krakow April 2014			
<b>Core</b>				
Registration	PASSED Spot 1_pass_of_4			
ITSI attach	Spot 0_pass_of_1			
SwMI initiated location updating	Spot 0_pass_of_2			
LA timer based Periodic location updating	Not Supported			
De-registration	PASSED Complete 1_pass_of_1			
Group Management	PASSED Spot 4_pass_of_11			
Single group attachment	PASSED Spot 2_pass_of_5			
Multiple group attachment	PASSED Spot 2_pass_of_4			
MS initiated group detachment	Spot 0_pass_of_2			
SwMI initiated group management	Not Supported			
Group call	PASSED Spot 3_pass_of_9			
Normal group call	PASSED Spot 1_pass_of_3			
Late entry	Spot 0_pass_of_1			
Priority Group scanning	PASSED Spot 1_pass_of_3			
Call setup modifications	Spot 0_pass_of_1			
Resource Queuing based on Call Priority	PASSED Complete 1_pass_of_1			
Broadcast Call	Not Supported			

Limited coverage notification	Not Supported			
Individual call	PASSED Spot 3_pass_of_7			
Simplex individual call	Spot 0_pass_of_3			
Duplex individual call	PASSED Spot 1_pass_of_2			
Call setup modifications	Not Supported			
Resource Queuing based on Call Priority	PASSED Complete 2_pass_of_2			
Indication of imminent call disconnection	Not Supported			
Status messages	Spot 0_pass_of_1			
Individual addressed Status transfer	Not Supported			
Group addressed Status transfer	Spot 0_pass_of_1			
Pre-emptive Priority Call	Spot 0_pass_of_1			
Pre-emption of Resources	Spot 0_pass_of_1			
Pre-emption of Busy Users	Not Supported			
Emergency Call	Spot 0_pass_of_2			
Pre-emption of Resources	Spot 0_pass_of_1			
Pre-emption of Busy Users	Spot 0_pass_of_1			
Call setup modifications	Not Supported			
Call disconnection by non-call owner	Not Supported			
Cell Re-selection	PASSED Spot 2_pass_of_16			
Undeclared	Spot 0_pass_of_1			
Unannounced	PASSED Spot 1_pass_of_7			
Announced - with Call Restoration	PASSED Spot 1_pass_of_8			
Announced - without Call Restoration	Not Supported			
Expedited	Not Supported			

PSTN interconnect	PASSED Spot 1_pass_of_4			
TETRA Originated Call	PASSED Spot 1_pass_of_2			
PSTN Originated Call	Spot 0_pass_of_1			
DTMF over-dial	Spot 0_pass_of_1			
Emergency Telephone Calls	Not Supported			
MS-ISDN Numbering				
MS ISDN - Voice Call	Not Supported			
MS-ISDN Status	Not Supported			
In Call Signalling	PASSED Spot 1_pass_of_5			
Slow Signalling on Traffic Channel (SACCH)	PASSED Spot 1_pass_of_4			
Fast Signalling on Traffic Channel (FACCH)	Spot 0_pass_of_1			
Subscriber Class Procedures	PASSED Spot 1_pass_of_6			
Cell Selection based on Subscriber Class	Spot 0_pass_of_3			
Subscriber Class Delivery during Location Update	Not Supported			
Use of Preferred Subscriber Classes	PASSED Spot 1_pass_of_3			
Common Secondary Control Channels	PASSED Spot 1_pass_of_7			
One C-SCCH per cell	PASSED Spot 1_pass_of_4			
Two C-SCCH per cell	Spot 0_pass_of_3			
Three C-SCCH per cell	Spot 0_pass_of_2			
BS Fallback Operation	PASSED Spot 1_pass_of_9			
Switch to/from BS Fallback Operation	Spot 0_pass_of_2			
Roaming with BS Fallback Operation	PASSED Spot 1_pass_of_2			
Services with BS Fallback Operation	Spot 0_pass_of_5			
Energy Economy Mode				

Energy Economy Mode Operation	Not Supported			
Transmit Inhibit	PASSED Spot 2_pass_of_8			
TXI Activation & De-Activation	PASSED Spot 1_pass_of_4			
TXI Activation & De-Activation with TxI Status available to the Dispatcher	PASSED Spot 1_pass_of_3			
Receipt of group addressed service during TXI	Spot 0_pass_of_1			
Mixed band operation	Spot 0_pass_of_4			
Mixed band operation, inter-cell	Spot 0_pass_of_4			
Mixed band operation, intra-cell	Spot 0_pass_of_3			
Mixed band operation, Full	Spot 0_pass_of_3			
<b>Short Data Service (SDS)</b>				
SDS Type 1, 2 or 3				
SDS Type 1	Not Supported			
SDS Type 2	Not Supported			
SDS Type 3	Not Supported			
SDS-TL	PASSED Spot 2_pass_of_8			
Individually Addressed	Spot 0_pass_of_2			
Group Addressed	PASSED Spot 1_pass_of_2			
Using MS-ISDN dialling	Not Supported			
Using UCS2 coding scheme	Spot 0_pass_of_2			
Using 7-bit coding scheme	PASSED Complete 1_pass_of_1			
Using 8-bit Latin 1 coding scheme	Spot 0_pass_of_1			
Using 8-bit Latin 5 coding scheme	Not Supported			
Using 8-bit Latin 9 coding scheme	Spot 0_pass_of_1			
Store and Forward	PASSED Spot 2_pass_of_3			

Individually Addressed	PASSED Spot 2_pass_of_3			
Group Addressed	Not Supported			
<b>Dynamic Group Number Assignment (DGNA)</b>				
Support for individually addressed DGNA	FAILED Spot 3_pass_of_11			
Support for individually addressed DGNA assignment without attachment	PASSED Spot 1_pass_of_3			
Support for individually addressed DGNA assignment with attachment as selected group	Spot 0_pass_of_3			
Support for individually addressed DGNA assignment with attachment as scanned group	FAILED Spot 1_pass_of_3			
Support for individually addressed DGNA assignment with rejected attachment	Not Supported			
Support for individually addressed assignment for pre-programmed group	FAILED Spot 1_pass_of_5			
Support for group addressed DGNA	PASSED Spot 1_pass_of_5			
Support for group addressed DGNA assignment	Spot 0_pass_of_2			
Management of 'group assignment lifetime'	PASSED Spot 1_pass_of_2			
Support for group addressed DGNA deassignment	Spot 0_pass_of_1			
Tolerance of unsupported DGNA functions				

MS tolerance of unsupported individual addressed DGNA signalling	Not Supported			
MS tolerance of unsupported group addressed DGNA signalling	Not Supported			
<b>Authentication</b>				
SwMI Initiated (non-mutual) Authentication	PASSED Spot 1_pass_of_3			
Attach with authentication	Spot 0_pass_of_1			
Roaming with authentication	PASSED Complete 1_pass_of_1			
SwMI rejects MS during authentication	Spot 0_pass_of_1			
MS rejects SwMI during authentication	Not Supported			
SwMI Initiated Authentication made Mutual by MS	Spot 0_pass_of_2			
Attach with authentication	Spot 0_pass_of_1			
Roaming with authentication	Spot 0_pass_of_1			
TEI Query				
TEI Query Operation	Not Supported			
<b>Packet Data</b>				
Context Management	PASSED Spot 2_pass_of_11			
Context Activation	PASSED Spot 2_pass_of_7			
User authentication	Spot 0_pass_of_4			
Single Slot Packet Data	PASSED Spot 2_pass_of_10			
Data Transfer	PASSED Spot 1_pass_of_7			

Cell re-selection	PASSED Spot 1_pass_of_3			
Multi Slot Packet Data	PASSED Spot 1_pass_of_4			
Data Transfer	PASSED Spot 1_pass_of_4			
TEDS	PASSED Spot 3_pass_of_15			
TEDS with Context Activation	PASSED Spot 1_pass_of_2			
TEDS Data Transmission, using LLC Optimisation	PASSED Spot 1_pass_of_7			
TEDS Data Transmission, not using LLC Optimisation	Not Supported			
TEDS Cell Reselection, using LLC Optimisation	PASSED Spot 1_pass_of_6			
TEDS Cell Reselection, not using LLC Optimisation	Not Supported			
Mixed band operation	PASSED Spot 2_pass_of_4			
Mixed band operation, inter-cell	PASSED Spot 2_pass_of_4			
Mixed band operation, intra-cell	PASSED Spot 2_pass_of_4			
Mixed band operation, Full	PASSED Spot 2_pass_of_4			
<b>TETRA Ambience Listening (SS-AL)</b>				
Ambience Listening	FAILED Spot 2_pass_of_5			
SS-AL Call Setup	PASSED Spot 1_pass_of_2			
MS initiated SS-AL disconnection	FAILED Spot 1_pass_of_3			



No Indication to affected user	FAILED Spot 2_pass_of_5			
Interaction with Transmit Inhibit	Spot 0_pass_of_1			
AL can override TxI	Not Supported			
AL cannot override TxI	Spot 0_pass_of_1			
<b>End to End Encryption</b>				
E2EE Voice Call	PASSED Spot 2_pass_of_8			
Individual (P2P) call	PASSED Spot 1_pass_of_4			
Group (P2MP) call	Spot 0_pass_of_2			
Clear Voice Override (CVO): Acceptance	PASSED Complete 1_pass_of_1			
Clear Voice Override (CVO): User Initiated	Not Supported			
Clear Voice Override (CVO): Automatic	Spot 0_pass_of_1			
<b>Air Interface Encryption</b>				
Security Class 2 Air Interface Encryption	PASSED Spot 8_pass_of_21			
Location Updating and AI Signalling Protection	PASSED Spot 3_pass_of_7			
TM-SCK provisioning during location updating	PASSED Spot 1_pass_of_2			
Communications between parties using encryption	PASSED Spot 1_pass_of_2			
Communications between clear and encrypted parties	PASSED Spot 1_pass_of_3			
Communications between encrypted parties on a channel designated to operate in clear	PASSED Spot 1_pass_of_2			
OTAR of TM-SCK	PASSED Spot 1_pass_of_2			

Change of TM-SCK	PASSED Spot 1_pass_of_4			
Packet Data with Class 2 Air Interface Encryption	PASSED Spot 1_pass_of_3			
Security Class 3 Air Interface Encryption	PASSED Spot 4_pass_of_22			
Clear Location Updating and AI Signalling Protection	PASSED Spot 1_pass_of_3			
Encrypted Location Updating and AI Signalling Protection	Spot 0_pass_of_5			
DCK Forwarding at MS request	Not Supported			
DCK Forwarding by SwMI (without MS request)	Spot 0_pass_of_1			
DCK Retrieval	Spot 0_pass_of_4			
CCK provisioning during location updating	PASSED Spot 1_pass_of_3			
Communications between parties using encryption	PASSED Spot 1_pass_of_2			
Communications between clear and encrypted parties	Spot 0_pass_of_3			
Communications between encrypted parties on a channel designated to operate in clear	Spot 0_pass_of_2			
OTAR of CCK	PASSED Spot 1_pass_of_2			
Change of CCK	PASSED Spot 2_pass_of_4			
Packet Data with Class 3 Air Interface Encryption	Spot 0_pass_of_3			
Security Class 3G Air Interface Encryption	PASSED Spot 3_pass_of_9			
GCK Key Association setting	PASSED Spot 1_pass_of_3			

Communications between parties using encryption	PASSED Spot 1_pass_of_2			
Communications between clear and encrypted parties	Spot 0_pass_of_1			
OTAR of GCK	Spot 0_pass_of_2			
Change of GCK	PASSED Spot 1_pass_of_3			
Management of CMG and GSKO	PASSED Spot 2_pass_of_5			
OTAR and change of CMG and GSKO	PASSED Spot 2_pass_of_5			
Key Status demand	PASSED Spot 1_pass_of_4			
SCK Key Status demand	Spot 0_pass_of_2			
GCK Key Status demand	Spot 0_pass_of_1			
GSKO Key Status demand	PASSED Complete 1_pass_of_1			
Change of Security Class for Fallback operation	Spot 0_pass_of_12			
Seamless change to Security Class 2 for BS Fallback operation	Spot 0_pass_of_10			
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported			
Provisioning of TM-SCK for fallback to Security Class 2 operation	Spot 0_pass_of_2			
Change to Security Class 1 for BS Fallback operation	Not Supported			
Change of Security Class (other than for Fallback operation)	PASSED Spot 1_pass_of_5			

Change between Security Class 3 and Security Class 3G	Spot 0_pass_of_2			
Change between Security Class 2 and Security Class 3	Spot 0_pass_of_2			
Change from Security Class 3G to Security Class 2	PASSED Complete 1_pass_of_1			
Key Management for Secure Direct Mode Operation	Spot 0_pass_of_3			
OTAR of DM-SCK	Spot 0_pass_of_3			
Change of DM-SCK	Spot 0_pass_of_2			
<b>Service Interaction</b>				
MS initiated Service Interaction	Spot 0_pass_of_3			
MS initiated Circuit Mode Call during another Circuit Mode Call	Spot 0_pass_of_1			
MS initiated Circuit Mode Call during Packet Mode Transfer	Spot 0_pass_of_2			
MS initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			
SwMI initiated Service Interaction	PASSED Spot 2_pass_of_6			
SwMI initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 1_pass_of_4			
SwMI initiated Circuit Mode Call during Packet Mode Transfer	PASSED Spot 1_pass_of_2			
SwMI initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			
Call Waiting				
Call Waiting in Individual Call	Not Supported			

Call Waiting in Group Call	Not Supported			
<b>Enable Disable</b>				
Enable and temporary disable of an MS	PASSED Spot 2_pass_of_8			
Enable and temporary disable of an MS without authentication	Spot 0_pass_of_2			
Enable and temporary disable of an MS with authentication	Not Supported			
Registration of a temporary disabled MS	PASSED Spot 1_pass_of_2			
Rejection of applicable invalid enable/disable requests	Spot 0_pass_of_3			
Removable SIMs do not affect the subscriber or equipment that has been enabled/disabled	Not Supported			
Disabling of an MS during a call or while on the PDCH	PASSED Complete 1_pass_of_1			
Permanent disable of an MS	Spot 0_pass_of_2			
Permanent disable of an MS with authentication	Spot 0_pass_of_1			
Permanently Disabled MS cannot send air interface signalling	Spot 0_pass_of_1			
<b>Key Delivery</b>				
Delivery of Authentication Data	PASSED Spot 1_pass_of_2			
Authentication Key Delivery	Spot 0_pass_of_1			
ITSI Delivery	PASSED Complete 1_pass_of_1			
Delivery of SCK	Spot 0_pass_of_2			
SCK Delivery to SCK delivery	Not Supported			

SCK Delivery to SwMI	Spot 0_pass_of_1			
SCK Delivery to SCK loading	Spot 0_pass_of_1			
Delivery method	PASSED Spot 1_pass_of_3			
Plain text on physical media	PASSED Spot 1_pass_of_3			
Encrypted text on physical media	Not Supported			
Electronic transfer	Not Supported			
<b>RUA</b>				
Radio User Assignment	PASSED Spot 4_pass_of_14			
Radio User Assignment at Location Updating	PASSED Spot 2_pass_of_6			
Dispatcher initiated Radio User Assignment	PASSED Spot 1_pass_of_2			
Radio User Dis-assignment	PASSED Spot 1_pass_of_6			
<b>LIP</b>				
Location Information Protocol	PASSED Spot 2_pass_of_10			
LIP over SDS	PASSED Spot 1_pass_of_5			
LIP over Packet Data	Spot 0_pass_of_1			
Time based reporting	PASSED Spot 1_pass_of_5			
Distance based reporting - NOT TESTABLE	Not Supported			
Reporting using Long reports	Spot 0_pass_of_1			
Reporting Enable & Disable	Not Supported			
Temporary reporting control	Not Supported			

Trigger modification	Not Supported			
Immediate Location Reporting	Spot 0_pass_of_1			
Reporting Lifetimes	Not Supported			
Error Reporting	PASSED Spot 1_pass_of_2			
<b>Callout</b>				
Full Callout	PASSED Spot 7_pass_of_13			
Individually Addressed Full Callout with request for Terminal Receipt message and with request for User Receipt message	PASSED Spot 1_pass_of_2			
Group Addressed Full Callout without request for Terminal Receipt message and without request for User Receipt message	N/A			
Using current selected group during Full Callout	N/A			
Full Callout with immediate change to Callout Group	PASSED Spot 1_pass_of_1			
Full Callout with change to Callout Group on non-rejecting user response	Spot 0_pass_of_1			
Full Callout with rejecting User Receipt message	Spot 0_pass_of_1			
Full Callout with timeout for User Receipt message	PASSED Complete 1_pass_of_1			
Callout Incident Information messages	PASSED Spot 1_pass_of_2			
Group Call to Callout Group	PASSED Spot 1_pass_of_4			

End of Full Callout	PASSED Complete 3_pass_of_3			
Simple Callout				
Individually Addressed Callout with request for Terminal Receipt message and with request for User Receipt message	Not Supported			
Individually Addressed Callout with request for Terminal Receipt message and without request for User Receipt message	Not Supported			
Group Addressed Callout without request for Terminal Receipt message and without request for User Receipt message	Not Supported			
Group Addressed Callout without request for Terminal Receipt message and with request for User Receipt message	Not Supported			
Simple Callout with rejecting User Receipt message	Not Supported			
Simple Callout with timeout for User Receipt message	Not Supported			
Interaction with other services and events	PASSED Spot 5_pass_of_27			
Interaction with previous Callout	PASSED Spot 1_pass_of_2			
Interaction with emergency call	PASSED Spot 1_pass_of_3			



Interaction with non-emergency call	PASSED Spot 1_pass_of_11			
Interaction with data and status	PASSED Spot 1_pass_of_11			
Interaction with local services	Not Supported			
Manual exit	PASSED Complete 1_pass_of_1			
Callout Test and Callout Availability				
Callout Test	Not Supported			
Callout Availability	Not Supported			
Callout Text and Callout Pre-Coded Status	PASSED Spot 2_pass_of_7			
Callout Text	PASSED Spot 2_pass_of_4			
Concatenated Callout Text	Spot 0_pass_of_3			
Callout Pre-Coded Status	Not Supported			
Storage of Callout Information	PASSED Complete 2_pass_of_2			
Viewing Callout information from previous Callout(s)	PASSED Complete 1_pass_of_1			
Deletion of Callout information from previous Callout(s)	PASSED Complete 1_pass_of_1			

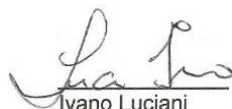
## Annex A

### Annex A

#### List of Revisions of the Certificate

Date	Ver.	Modification
8 October 2014	1	First published version
22 October 2014	2	updating: "A SwMI declaration is changed to reflect the inability to support group addressed Full Callout as per the TIP specification" consequently has changed the number of "Full Callout" tests on "Feature compliance report" Table.
24 March 2016	3	Re-instated the SwMI group addressed Full Callout declaration, to "yes" as the process only allows declaration changes in case of human errors. This case was not a human error, the fault was in the Callout host application simulator. The following updates have been done: "Feature compliance report" table outcomes from "Not Supported" to "N/A" for "Group Addressed Full Callout without request for Terminal Receipt message and without request for User Receipt message" and for "Using current selected group during Full Callout".

**Head of the Procedure**



Ivano Luciani

**Radio Office Manager**

Giuseppe Pierri

