TETRA Interoperability Certificate

Motorola Solutions, Dimetra IP R8.2, SwMI – Motorola Solutions, MTM5400, 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, MTM5400, 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.

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v3

Certified features

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

Test Session: Motorola Solutions, Krakow, April 2014

Motorola Solutions, Dimetra IP R8.2, SwMI -

Motorola Solutions, MTM5400, Terminal

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

Call Waiting	-
Tetra Association TTR001-13:ED	
Enable and temporary disable of an MS	Certified
Permanent disable of an MS	Certified
Tetra Association TTR001-14:TKD	
Delivery of Authentication Data	Certified
Delivery of SCK	Certified
Delivery method	Certified
Tetra Association TTR001-17:RUA	
Radio User Assignment	Certified
Tetra Association TTR001-19:LIP	
Location Information Protocol	Certified
Tetra Association TTR001-21:Callout	
Full Callout	Certified
Simple Callout	-
Interaction with other services and events	Certified
Callout Test and Callout Availability	-
Callout Text and Callout Pre-Coded Status	Certified
Storage of Callout Information	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
Certified	All required tests have been performed and passed
Partial	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
Passed	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.
Incomplete	Not all Mandated tests (as per TIC-RT indication) have been executed
Failed	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
Complete	All mandated tests associated to the feature have been executed
Spot	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
Regression	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
Regression on spot	The regression method has been applied on the verdicts based on the spot testing method
Witnessed	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
Not supported	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	Motorola Copenhagen January 2011		
SwMI Type	Dimetra IP R8.2	Dimetra IP		
SwMI HW Release	Dimetra IP R8.2	7.1		
SwMI SW Release	8,2	7.1		
Terminal Type	MTM5400	MTM5400		
Terminal HW Release	MT953C	MT953C		
Terminal SW Release	MR10.6.10	MR10.1.1		
SwMI Callout Application simulator SW realese	1.1			

TIP Specs and TIP Compliance Test Plans				
Core	TTR001-01 v6.0.0 IOP001-01 v3.0.0 TIC-RT001-01 v260	TTR001-01 v5.1.1 IOP001-01 v2.6.4 TIC-RT001-01 v250		
SDS	TTR001-02 v2.1.1 IOP001-02 v2.0.0 TIC-RT001-02 v213	TTR001-02 v2.0.1 IOP001-02 v2.0.0 TIC-RT001-02 v211		
DGNA	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v222	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v218		
Auth	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v223	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v222		
PD	TTR001-05 v3.0.0 IOP001-05 v3.0.5 TIC-RT001-05 v305	TTR001-05 v3.0.0 IOP001-05 v3.0.2 TIC-RT001-05 v300		
AL	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v122	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v121		
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	TTR001-11 v3.0.0 IOP001-11 v3.0.0 TIC-RT001-11 v3018		
SI	TTR001-12 v1.0.0 IOP001-12 v1.0.0 TIC-RT001-12 v127	TTR001-12 v1.0.0 IOP001-12 v1.0.0 TIC-RT001-12 v125		
ED	TTR001-13 v2.0.0 IOP001-13 v1.0.0 TIC-RT001-13 v146	TTR001-13 v2.0.0 IOP001-13 v1.0.0 TIC-RT001-13 v143		
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	TTR001-17 v1.0.1 IOP001-17 v1.0.0 TIC-RT001-17 v105		
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	TTR001-21 v1.0.0 IOP001-21 v1.0.0 TIC-RT001-21 v101		

Feature compliance report

Test Session	Motorola Solutions Krakow April 2014	Motorola Copenhagen January 2011		
Core				
Registration	PASSED Regression 2_pass_of_4	PASSED Complete 3_pass_of_3		
ITSI attach	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
SwMI initiated location updating	PASSED Regression 1_pass_of_2	PASSED Complete 1_pass_of_1		
LA timer based Periodic location updating	Not Supported	Not Supported		
De-registration	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Group Management	PASSED Regression 5_pass_of_11	PASSED Complete 9_pass_of_9		
Single group attachment	PASSED Regression 4_pass_of_5	PASSED Complete 4_pass_of_4		
Multiple group attachment	PASSED Regression 1_pass_of_4	PASSED Complete 3_pass_of_3		
MS initiated group detachment	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
SwMI initiated group management	Not Supported	Not Supported		
Group call	PASSED Regression 2_pass_of_9	PASSED Complete 9_pass_of_9		
Normal group call	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Late entry	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Priority Group scanning	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Call setup modifications	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Resource Queuing based on Call Priority	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Broadcast Call	Not Supported	Not Supported		

Limited coverage notification	Not Supported	Not Supported		
Individual call	PASSED Regression 1_pass_of_7	PASSED Complete 7_pass_of_7		
Simplex individual call	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Duplex individual call	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Call setup modifications	Not Supported	Not Supported		
Resource Queuing based on Call Priority	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Indication of imminent call disconnection	Not Supported	Not Supported		
Status messages	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Individual addressed Status transfer	Not Supported	Not Supported		
Group addressed Status transfer	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Pre-emptive Priority Call	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Pre-emption of Resources	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Pre-emption of Busy Users	Not Supported	Not Supported		
Emergency Call	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Pre-emption of Resources	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Pre-emption of Busy Users	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Call setup modifications	Not Supported	Not Supported		
Call disconnection by non-call owner	Not Supported	Not Supported		
Cell Re-selection	PASSED Regression 2_pass_of_16	PASSED Complete 16_pass_of_16		
Undeclared	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Unannounced	PASSED Regression 1_pass_of_7	PASSED Complete 7_pass_of_7		
Announced - with Call Restoration	PASSED Regression 1_pass_of_8	PASSED Complete 8_pass_of_8		
Announced - without Call Restoration	Not Supported	Not Supported		
Expedited	Not Supported	Not Supported		

PSTN interconnect	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
TETRA Originated Call	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
PSTN Originated Call	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
DTMF over-dial	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Emergency Telephone Calls	Not Supported	Not Supported		
MS-ISDN Numbering				
MS ISDN - Voice Call	Not Supported	Not Supported		
MS-ISDN Status	Not Supported	Not Supported		
In Call Signalling	PASSED Regression 1_pass_of_5	PASSED Complete 5_pass_of_5		
Slow Signalling on Traffic Channel (SACCH)	PASSED Regression 1_pass_of_4	PASSED Complete 4_pass_of_4		
Fast Signalling on Traffic Channel (FACCH)	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Subscriber Class Procedures	PASSED Regression 3_pass_of_6	PASSED Complete 4_pass_of_4		
Cell Selection based on Subscriber Class	PASSED Complete 3_pass_of_3	PASSED Complete 1_pass_of_1		
Subscriber Class Delivery during Location Update	Not Supported	Not Supported		
Use of Preferred Subscriber Classes	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Common Secondary Control Channels	PASSED Regression 1_pass_of_7	PASSED Complete 7_pass_of_7		
One C-SCCH per cell	Regression 0_pass_of_4	PASSED Complete 4_pass_of_4		
Two C-SCCH per cell	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Three C-SCCH per cell	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
BS Fallback Operation	PASSED Regression 3_pass_of_9	PASSED No_Equipment 8_pass_of_12		
Switch to/from BS Fallback Operation	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Roaming with BS Fallback Operation	Regression 0_pass_of_2	PASSED No_Equipment 2_pass_of_6		
Services with BS Fallback Operation	PASSED Regression 2_pass_of_5	PASSED Complete 4_pass_of_4		
Energy Economy Mode		PASSED Complete 3_pass_of_3		

Energy Economy Mode Operation	Not Supported	PASSED Complete 3_pass_of_3		
Transmit Inhibit	PASSED Regression 6_pass_of_8	PASSED Complete 5_pass_of_5		
TXI Activation & De-Activation	PASSED Regression 3_pass_of_4	PASSED Complete 1_pass_of_1		
TXI Activation & De-Activation with TxI Status available to the Dispatcher	PASSED Regression 2_pass_of_3	PASSED Complete 3_pass_of_3		
Receipt of group addressed service during TXI	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Mixed band operation	Regression 0_pass_of_4	PASSED Complete 4_pass_of_4		
Mixed band operation, inter-cell	Regression 0_pass_of_4	PASSED Complete 4_pass_of_4		
Mixed band operation, intra-cell	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Mixed band operation, Full	Regression 0_pass_of_3	PASSED Complete 4_pass_of_4		
Short Data Service (SDS)				
SDS Type 1, 2 or 3				
SDS Type 1	Not Supported	Not Supported		
SDS Type 2	Not Supported	Not Supported		
SDS Type 3	Not Supported	Not Supported		
SDS-TL	PASSED Regression 3_pass_of_9	PASSED Complete 8_pass_of_8		
Individually Addressed	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Group Addressed	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Using MS-ISDN dialling	Not Supported	Not Supported		
Using UCS2 coding scheme	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Using 7-bit coding scheme	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Using 8-bit Latin 1 coding scheme	PASSED Complete 1_pass_of_1			
Using 8-bit Latin 5 coding scheme	Not Supported			
Using 8-bit Latin 9 coding scheme	PASSED Complete 1_pass_of_1			
Store and Forward	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		

Individually Addressed	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Group Addressed	Not Supported	Not Supported		
Dynamic Group Number Assignment (DGNA)				
Support for individually addressed DGNA	FAILED Regression 6_pass_of_11	PASSED Complete 6_pass_of_6		
Support for individually addressed DGNA assignment without attachment	PASSED Regression 1_pass_of_3	PASSED Complete 4_pass_of_4		
Support for individually addressed DGNA assignment with attachment as selected group	PASSED Complete 3_pass_of_3	Not Supported		
Support for individually addressed DGNA assignment with attachment as scanned group	FAILED Complete 2_pass_of_3	Not Supported		
Support for individually addressed DGNA assignment with rejected attachment	Not Supported	Not Supported		
Support for individually addressed assigment for pre-programmed group	FAILED Regression 0_pass_of_5	PASSED Complete 4_pass_of_4		
Support for group addressed DGNA	PASSED Regression 3_pass_of_5	Time_Limited 3_pass_of_6		
Support for group addressed DGNA assignment	PASSED Complete 2_pass_of_2	Time_Limited 1_pass_of_3		
Management of 'group assignment lifetime'	PASSED Regression 1_pass_of_2	Time_Limited 1_pass_of_2		
Support for group addressed DGNA deassignment	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Tolerance of unsupported DGNA functions				
MS tolerance of unsupported	Not Supported	Not Supported		

individual addressed DGNA signalling				
MS tolerance of unsupported group addressed DGNA signalling	Not Supported	Not Supported		
Authentication				
SwMI Initiated (non-mutual) Authentication	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Attach with authentication	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Roaming with authentication	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
SwMI rejects MS during authentication	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
MS rejects SwMI during authentication	Not Supported	Not Supported		
SwMI Initiated Authentication made Mutual by MS	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Attach with authentication	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Roaming with authentication	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
TEI Query				
TEI Query Operation	Not Supported	Not Supported		
Packet Data				
Context Management	PASSED Regression 3_pass_of_11	FAILED Complete 9_pass_of_11		
Context Activation	PASSED Regression 3_pass_of_7	FAILED Complete 5_pass_of_7		
User authentication	Regression 0_pass_of_4	PASSED Complete 4_pass_of_4		
Single Slot Packet Data	PASSED Regression 1_pass_of_10	PASSED Complete 10_pass_of_10		

Data Transfer	PASSED Regression 1_pass_of_7	PASSED Complete 7_pass_of_7		
Cell re-selection	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Multi Slot Packet Data	PASSED Regression 3_pass_of_4	FAILED Complete 2_pass_of_4		
Data Transfer	PASSED Regression 3_pass_of_4	FAILED Complete 2_pass_of_4		
TEDS	PASSED Complete 15_pass_of_15	PASSED Complete 15_pass_of_15		
TEDS with Context Activation	PASSED Complete 2_pass_of_2	PASSED Complete 2_pass_of_2		
TEDS Data Transmission, using LLC Optimisation	PASSED Complete 7_pass_of_7	PASSED Complete 7_pass_of_7		
TEDS Data Transmission, not using LLC Optimisation	Not Supported	PASSED Complete 6_pass_of_6		
TEDS Cell Reselection, using LLC Optimisation	PASSED Complete 6_pass_of_6	PASSED Complete 4_pass_of_4		
TEDS Cell Reselection, not using LLC Optimisation	Not Supported	PASSED Complete 4_pass_of_4		
Mixed band operation	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
Mixed band operation, inter-cell	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
Mixed band operation, intra-cell	PASSED Regression 2_pass_of_4	PASSED Complete 15_pass_of_15		
Mixed band operation, Full	PASSED Regression 2_pass_of_4	PASSED Complete 2_pass_of_2		
TETRA Ambience Listening (SS-AL)				
Ambience Listening	FAILED Complete 4_pass_of_5	PASSED Complete 5_pass_of_5		
SS-AL Call Setup	PASSED Complete 2_pass_of_2	PASSED Complete 2_pass_of_2		
MS initiated SS-AL	FAILED Complete	PASSED Complete		

disconnection	2_pass_of_3	3_pass_of_3		
No Indication to affected user	FAILED Complete 4_pass_of_5	PASSED Complete 5_pass_of_5		
Interaction with Transmit Inhibit	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
AL can override TxI	Not Supported	Not Supported		
AL cannot override TxI	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
End to End Encryption				
E2EE Voice Call	PASSED Complete 8_pass_of_8			
Individual (P2P) call	PASSED Complete 4_pass_of_4			
Group (P2MP) call	PASSED Complete 2_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	PASSED Complete 1_pass_of_1			
Air Interface Encryption				
Security Class 2 Air Interface Encryption	PASSED Regression 11_pass_of_21	PASSED Complete 18_pass_of_18		
Location Updating and AI Signalling Protection	PASSED Regression 3_pass_of_7	PASSED Complete 7_pass_of_7		
TM-SCK provisioning during location updating	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Communications between parties using encryption	PASSED Complete 2_pass_of_2	PASSED Complete 2_pass_of_2		
Communications between clear and encrypted parties	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		

Communications between encrypted parties on a channel designated to operate in clear	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
OTAR of TM-SCK	Regression 0_pass_of_2	PASSED Complete 4_pass_of_4		
Change of TM-SCK	PASSED Regression 1_pass_of_4	PASSED Complete 4_pass_of_4		
Packet Data with Class 2 Air Interface Encryption	PASSED Complete 3_pass_of_3			
Security Class 3 Air Interface Encryption	PASSED Regression 8_pass_of_22	PASSED Complete 19_pass_of_19		
Clear Location Updating and AI Signalling Protection	Regression 0_pass_of_3	PASSED Complete 9_pass_of_9		
Encrypted Location Updating and AI Signalling Protection	PASSED Regression 2_pass_of_5			
DCK Forwarding at MS request	Not Supported	Not Supported		
DCK Forwarding by SwMI (without MS request)	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
DCK Retrieval	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
CCK provisioning during location updating	Regression 0_pass_of_3	PASSED Complete 4_pass_of_4		
Communications between parties using encryption	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Communications between clear and encrypted parties	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Communications between encrypted parties on a channel designated to operate in clear	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
OTAR of CCK	PASSED Regression 1_pass_of_2	PASSED Complete 4_pass_of_4		
Change of CCK	PASSED Regression 1_pass_of_4	PASSED Complete 4_pass_of_4		

Packet Data with Class 3 Air Interface Encryption	PASSED Complete 3_pass_of_3			
Security Class 3G Air Interface Encryption	PASSED Regression 3_pass_of_9			
GCK Key Association setting	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Communications between parties using encryption	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Communications between clear and encrypted parties	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
OTAR of GCK	PASSED Regression 1_pass_of_2	PASSED Complete 3_pass_of_3		
Change of GCK	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
Management of CMG and GSKO	PASSED Regression 1_pass_of_5	PASSED Complete 5_pass_of_5		
OTAR and change of CMG and GSKO	PASSED Regression 1_pass_of_5	PASSED Complete 5_pass_of_5		
Key Status demand	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
SCK Key Status demand	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
GCK Key Status demand	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
GSKO Key Status demand	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Change of Security Class for Fallback operation	Regression 0_pass_of_12	PASSED Complete 12_pass_of_12		
Seamless change to Security Class 2 for BS Fallback operation	Regression 0_pass_of_10	PASSED Complete 10_pass_of_10		
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported	Not Supported		

Provisioning of TM-SCK for fallback to Security Class 2 operation	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Change to Security Class 1 for BS Fallback operation	Not Supported	Not Supported		
Change of Security Class (other than for Fallback operation)	PASSED Regression 2_pass_of_5	PASSED Complete 5_pass_of_5		
Change between Security Class 3 and Security Class 3G	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Change between Security Class 2 and Security Class 3	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Change from Security Class 3G to Security Class 2	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Key Management for Secure Direct Mode Operation	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
OTAR of DM-SCK	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Change of DM-SCK	Regression 0_pass_of_2	PASSED Complete 3_pass_of_3		
Service Interaction				
MS initiated Service Interaction	PASSED Regression 1_pass_of_3	PASSED Complete 3_pass_of_3		
MS initiated Circuit Mode Call during another Circuit Mode Call	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
MS initiated Circuit Mode Call during Packet Mode Transfer	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
MS initiated Packet Mode Transfer during Circuit Mode Call	Not Supported	Not Supported		
SwMI initiated Service Interaction	PASSED Regression 2_pass_of_6	PASSED Complete 6_pass_of_6		
SwMI initiated Circuit Mode Call during another Circuit Mode	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		

Call				
SwMI initiated Circuit Mode Call during Packet Mode Transfer	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
SwMI initiated Packet Mode Transfer during Circuit Mode Call	Not Supported	Not Supported		
Call Waiting				
Call Waiting in Individual Call	Not Supported	Not Supported		
Call Waiting in Group Call	Not Supported	Not Supported		
Enable Disable				
Enable and temporary disable of an MS	PASSED Regression 3_pass_of_8	FAILED Complete 7_pass_of_8		
Enable and temporary disable of an MS without authentication	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Enable and temporary disable of an MS with authentication	Not Supported	Not Supported		
Registration of a temporary disabled MS	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Rejection of applicable invalid enable/disable requests	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Removable SIMs do not affect the subscriber or equipment that has been enabled/disabled	Not Supported	Not Supported		
Disabling of an MS during a call or while on the PDCH	PASSED Complete 1_pass_of_1	FAILED Complete 0_pass_of_1		
Permanent disable of an MS	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Permanent disable of an MS with authentication	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Permanently Disabled MS cannot send air interface signalling	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		

Key Delivery				
Delivery of Authentication Data	PASSED Complete 2_pass_of_2			
Authentication Key Delivery	PASSED Complete 1_pass_of_1			
ITSI Delivery	PASSED Complete 1_pass_of_1			
Delivery of SCK	PASSED Complete 2_pass_of_2			
SCK Delivery to SCK delivery	Not Supported			
SCK Delivery to SwMI	PASSED Complete 1_pass_of_1			
SCK Delivery to SCK loading	PASSED Complete 1_pass_of_1			
Delivery method	PASSED Complete 3_pass_of_3			
Plain text on physical media	PASSED Complete 3_pass_of_3			
Encrypted text on physical media	Not Supported			
Electronic transfer	Not Supported			
RUA				
Radio User Assignment	PASSED Regression 5_pass_of_14	PASSED Complete 14_pass_of_14		
Radio User Assignment at Location Updating	PASSED Regression 3_pass_of_6	PASSED Complete 6_pass_of_6		
Dispatcher initiated Radio User Assignment	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Radio User Dis-assignment	PASSED Regression 1_pass_of_6	PASSED Complete 6_pass_of_6		

LIP				
Location Information Protocol	PASSED Complete 10_pass_of_10			
LIP over SDS	PASSED Complete 5_pass_of_5			
LIP over Packet Data	PASSED Complete 1_pass_of_1			
Time based reporting	PASSED Complete 5_pass_of_5			
Distance based reporting - NOT TESTABLE	Not Supported			
Reporting using Long reports	PASSED Complete 1_pass_of_1			
Reporting Enable & Disable	Not Supported			
Temporary reporting control	Not Supported			
Trigger modification	Not Supported			
Immediate Location Reporting	PASSED Complete 1_pass_of_1			
Reporting Lifetimes	Not Supported			
Error Reporting	PASSED Complete 2_pass_of_2			
Callout				
Full Callout	PASSED Regression 6_pass_of_13	Time_Limited 14_pass_of_16		
Individually Addressed Full Callout with request for Terminal Receipt message and with request for User Receipt message	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Group Addressed Full Callout without request for Terminal Receipt message and without	N/A	Time_Limited 1_pass_of_2		

request for User Receipt message				
Using current selected group during Full Callout	N/A	Time_Limited 0_pass_of_1		
Full Callout with immediate change to Callout Group	PASSED Complete 1_pass_of_1	PASSED Complete 2_pass_of_2		
Full Callout with change to Callout Group on non-rejecting user response	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Full Callout with rejecting User Receipt message	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Full Callout with timeout for User Receipt message	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Callout Incident Information messages	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Group Call to Callout Group	PASSED Regression 1_pass_of_4	PASSED Complete 4_pass_of_4		
End of Full Callout	PASSED Complete 3_pass_of_3	Time_Limited 3_pass_of_4		
Simple Callout				
Individually Addressed Callout with request for Terminal Receipt message and with request for User Receipt message	Not Supported	Not Supported		
Individually Addressed Callout with request for Terminal Receipt message and without request for User Receipt message	Not Supported	Not Supported		
Group Addressed Callout without request for Terminal Receipt message and without request for User Receipt	Not Supported	Not Supported		

message				
Group Addressed Callout without request for Terminal Receipt message and with request for User Receipt message	Not Supported	Not Supported		
Simple Callout with rejecting User Receipt message	Not Supported	Not Supported		
Simple Callout with timeout for User Receipt message	Not Supported	Not Supported		
Interaction with other services and events	PASSED Regression 9_pass_of_27	PASSED Complete 23_pass_of_23		
Interaction with previous Callout	PASSED Regression 1_pass_of_2	PASSED Complete 2_pass_of_2		
Interaction with emergency call	Regression 0_pass_of_3	PASSED Complete 3_pass_of_3		
Interaction with non-emergency call	PASSED Regression 7_pass_of_11	PASSED Complete 7_pass_of_7		
Interaction with data and status	Regression 0_pass_of_11	PASSED Complete 11_pass_of_11		
Interaction with local services	Not Supported	Not Supported		
Manual exit	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Callout Test and Callout Availability				
Callout Test	Not Supported	Not Supported		
Callout Availability	Not Supported	Not Supported		
Callout Text and Callout Pre-Coded Status	PASSED Regression 4_pass_of_7	PASSED Complete 7_pass_of_7		
Callout Text	PASSED Regression 2_pass_of_4	PASSED Complete 4_pass_of_4		
Concatenated Callout Text	PASSED Regression 2_pass_of_3	PASSED Complete 3_pass_of_3		
Callout Pre-Coded Status	Not Supported	Not Supported		

Storage of Callout Information	Regression 0_pass_of_2	PASSED Complete 2_pass_of_2		
Viewing Callout information from previous Callout(s)	Regression 0_pass_of_1	PASSED Complete 1_pass_of_1		
Deletion of Callout information from previous Callout(s)	Regression 0_pass_of_1	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".

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