

### **TETRA Interoperability Certificate**

### Hytera Mobilfunk , ACCESSNET-T IP, SwMI – Motorola Solutions , MTP3550, Terminal

Bad Münder, August 2016

Latest Certified SwMI SW Release:	PV10	Latest Certified Terminal SW Release:	MR15
Latest Certified SwMI HW Release:	PV10	Latest Certified Terminal HW Release:	PTBP952HE

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Hytera Mobilfunk, ACCESSNET-T IP, SwMI and the Motorola Solutions s, MTP3550, 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 single test session between Hytera Mobilfunk and Motorola Solutions s on August 2016. 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.

#### **IOP test engineer**

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Date of issue 13 September 2016



#### **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	Certified			
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	-			
Tetra Association TTR001-02:SDS				
SDS Type 1, 2 or 3	Certified			
SDS-TL	Certified			
Store and Forward	-			
Multipart SDS	-			
Tetra Association TTR001-03:DGNA				
Support for individually addressed DGNA	Certified			
Support for group addressed DGNA	-			
Tolerance of unsupported DGNA functions	-			



Tetra Association TTR001-04:AuthSwMI Initiated (non-mutual) AuthenticationCertifiedSwMI Initiated Authentication made Mutual by MSCertifiedTEL Query-Tetra Association TTR001-05:PDCertifiedContext ManagementCertifiedSingle Slot Packet DataCertifiedMulti Slot Packet DataCertifiedTEDS-Context ManagementCertifiedTEDS-Mixed band operation-Tetra Association TTR001-09:ALCertifiedInteraction with Transmit InhibitCertifiedCertifiedEZEE Voice CallCertifiedCertifiedTetra Association TTR001-10:EZEECertifiedSecurity Class 2 Air Interface EncryptionPartialSecurity Class 3 Gi Interface Encryption-Change of Security Class 3 Gi Fallback operation-Change of Security Class 1 Gi Fallback operation-Change of Sec					
SwMl Initiated Authentication made Mutual by MSCertifiedTEI Query-Tetra Association TTR001-05:PDContext ManagementCertifiedSingle Slot Packet DataCertifiedMulti Slot Packet DataCertifiedMulti Slot Packet DataCertifiedTETDS-Mixed band operation-Tetra Association TTR001-09:ALCertifiedInteraction with Transmit InhibitCertifiedCertifiedCertifiedTetra Association TTR001-10:E2EECertifiedCertifiedCertifiedTetra Association TTR001-11:AIEPartialSecurity Class 2 Air Interface EncryptionCertifiedSecurity Class 3 G Air Interface Encryption-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Key Management of CMG and GSKO-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Key Management for Secure Direct Mode Operation-Key Management for Secure Direct Mode Operation-Key Management for Secure Direct InteractionCertifiedSwMI Initiated Service InteractionCertifiedCertifiedCertifiedSwMI Initiated Service InteractionCertifiedSwMI Initiated Service InteractionCertifiedCertifiedSwMI Initiated Service InteractionCertifiedCertifiedSwMI Initiate	Tetra Association TTR001-04:Auth				
TEI QueryImage: Context ManagementCertifiedContext ManagementCertifiedSingle Slot Packet DataCertifiedMulti Slot Packet DataCertifiedTEDS-Mixed band operation-Tetra Association TTR001-09:ALCertifiedInteraction with Transmit InhibitCertifiedCertifiedE2EE Voice CallCertifiedCertifiedTetra Association TTR001-10:E2EECertifiedE2EE Voice CallCertifiedSecurity Class 2 Air Interface EncryptionPartialSecurity Class 3 Air Interface EncryptionCertifiedSecurity Class 3 G Air Interface Encryption-Management of CMG and GSKO-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Key Management for Secure Direct Mode Operation-Key Management for Secure InteractionCertifiedSwMI initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedCall Waiting-Call Waiting-Call Waiting-Call Bable and temporary disable of an MSCertified	SwMI Initiated (non-mutual) Authentication	Certified			
Tetra Association TTR001-05:PD       Context Management     Certified       Single Slot Packet Data     Certified       Multi Slot Packet Data     Certified       Multi Slot Packet Data     Certified       TEDS     -       Mixed band operation     -       Tetra Association TTR001-09:AL     Certified       Interaction with Transmit Inhibit     Certified       Tetra Association TTR001-10:E2EE     Certified       Tetra Association TTR001-11:AIE     Certified       Security Class 2 Air Interface Encryption     Partial       Security Class 3 G Air Interface Encryption     -       Management of CMG and GSK0     -       Key Status demand     -       Change of Security Class for Fallback operation     -       Key Management for Secure Direct Mode Operation     -       Key Management for Secure Direct Mode Operation     -       Key Management for Secure Direct Mode Operation     -       Mis initiated Service Interaction     Certified       SwMI initiated Serv	SwMI Initiated Authentication made Mutual by MS	Certified			
Context ManagementCertifiedSingle Slot Packet DataCertifiedMulti Slot Packet DataCertifiedTEDS-Mixed band operation-Tetra Association TTR001-09:ALCertifiedInteraction with Transmit InhibitCertifiedTetra Association TTR001-09:ALCertifiedInteraction with Transmit InhibitCertifiedTetra Association TTR001-10:E2EECertifiedE2EE Voice CallCertifiedSecurity Class 2 Air Interface EncryptionPartialSecurity Class 3 G Air Interface Encryption-Management of CMG and GSKO-Key Status demand-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Key Management for Secure Direct Mode Operation-Key Management for Secure InteractionCertifiedSwMI initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedCall Waiting-Call Waiting-Tetra Association TTR001-13:ED-Enable and temporary disable of an MSCertified	TEI Query	-			
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TEDS.Mixed band operation.Tetra Association TTR001-09:AL.Ambience ListeningCertifiedInteraction with Transmit InhibitCertifiedTetra Association TTR001-10:E2EE.E2EE Voice CallCertifiedSecurity Class 2 Air Interface EncryptionPartialSecurity Class 3 G Air Interface Encryption.Management of CMG and GSKO.Key Status demand.Change of Security Class for Fallback operation.Change of Security Class for Fallback operation.Key Management for Secure Direct Mode Operation.Key Management for Secure Direct Mode Operation.MS initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedCall Waiting.Certified.SwMI initiated Service InteractionCertifiedCall Waiting.Certified.SwMI initiated Service InteractionCertifiedCall Waiting.Certified.SwMI initiated Service InteractionCertifiedCall Waiting.Certified.Certified.Certified.Certified.Certified.Certified.Certified.Certified.Certified.Certified. </th <th>Single Slot Packet Data</th> <th>Certified</th>	Single Slot Packet Data	Certified			
Mixed band operation-Tetra Association TTR001-09:ALAmbience ListeningCertifiedInteraction with Transmit InhibitCertifiedTetra Association TTR001-10:E2EEE2EE Voice CallCertifiedSecurity Class 2 Air Interface EncryptionPartialSecurity Class 3 Air Interface EncryptionCertifiedSecurity Class 3 G Air Interface Encryption-Management of CMG and GSKO-Key Status demand-Change of Security Class for Fallback operation-Change of Security Class for Fallback operation-Key Management for Secure Direct Mode Operation-Key Management for Secure Direct Mode Operation-Mixinitiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedCall Waiting-Call Waiting-Call Waiting-CertifiedCertified	Multi Slot Packet Data	Certified			
Tetra Association TTR001-09:AL       Ambience Listening     Certified       Interaction with Transmit Inhibit     Certified       Tetra Association TTR001-10:E2EE     Certified       E2EE Voice Call     Certified       Tetra Association TTR001-11:AIE     Partial       Security Class 2 Air Interface Encryption     Partial       Security Class 3 Air Interface Encryption     Certified       Management of CMG and GSKO     -       Key Status demand     -       Change of Security Class for Fallback operation     -       Key Management for Secure Direct Mode Operation     -       Key Management for Secure Direct Mode Operation     -       MS initiated Service Interaction     Certified       SwMI initiated Service Interaction     Certified       Call Waiting     -       Call Waiting     -       Call Waiting     -       Certified     Certified       Call Waiting     -       Call Waiting     -       Certified     Certified       Call Waiting     -       Call Waiting     -       Certified     -       Certified     - </th <th>TEDS</th> <th>-</th>	TEDS	-			
Ambience ListeningCertifiedInteraction with Transmit InhibitCertifiedTetra Association TTR001-10:E2EEE2EE Voice CallCertifiedCertifiedDetring association TTR001-11:AIESecurity Class 2 Air Interface EncryptionSecurity Class 3 Air Interface EncryptionSecurity Class 3 G Air Interface EncryptionSecurity Class 3G Air Interface EncryptionSecurity Class 1G Fallback operationSecurity Class for Fallback operationSecurity Class for Fallback operationSecurity Class (other than for Fallback operation)Security Class (other than for Fallback operation)Security Class (other than for Fallback operation)Security Class Sociation TTR001-12:SIMS initiated Service InteractionCertifiedSwMI initiated Service InteractionCertifiedSumMI initiated Service InteractionCertifiedSumMI initiated Service Interaction					



Tetra Association TTR001-14:TKD			
Delivery of Authentication Data	Certified		
Delivery of SCK	Certified		
Delivery method	Certified		
Tetra Association TTR001-19:LIP			
Location Information Protocol	Certified		
Tetra Association TTR001-20:CF			
Call Forwarding Unconditional	Certified		
Call Forwarding Conditional	Certified		
Call Forwarding Information Displayed	-		



#### **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 blue background and the associated sub-features (or second level features) have white 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 or sub- feature
Incomplete	Not all mandated tests (as per TIC-RT indication) have been executed
Failed	At least one of mandated test or steps of test linked to this functionality failed to match the TIP specification relevant to this feature or sub-feature



The verdict associated to the feature gives also indication about the method used to test that feature or subfeature. 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 or sub- feature have been executed
Spot	Only a selection of the mandatory test cases associated to the feature or sub-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 or sub-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 (see the previous item) has been applied at this session on the verdicts from the referenced (previous) session where the spot testing method (see above) had been applied
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

Test Session Date/Place	Hytera August 2016 Bad Münder		
SwMI Type	ACCESSNET-T IP		
SwMI HW Release	PV 10		
SwMI SW Release	PV 10		
Terminal Type	MTP3550		
Terminal HW Release	PTBP952HE		
Terminal SW Release	MR15		





TIP Specs and TIP			
Compliance Test			
Plans			
Core	TTR001-01 v6.1.1		
	IOP001-01 v3.1.0		
	TIC-RT001-01 v26 <b>7</b>		
SDS	TTR001-02 v2.1.3		
	IOP001-02 v2.0.0		
	TIC-RT001-02 v218		
DGNA	TTR001-03 v2.0.0		
	IOP001-03 v2.0.1		
	TIC-RT001-03 v225		
Auth	TTR001-04 v3.0.0		
	IOP001-04 v2.0.0		
	TIC-RT001-04 v228		
PD	TTR001-05 v3.0.0		
	IOP001-05 v4.0.0		
	TIC-RT001-05 v402		
AL	TTR001-09 v2.0.0		
	IOP001-09 v1.1.0		
	TIC-RT001-09 v127		
E2EE	TTR001-10 v2.1.0		
	IOP001-10 v1.1.4		
	TIC-RT001-10 v125		
AIE	TTR001-11 v3.0.3		
	IOP001-11 v3.0.2		
	TIC-RT001-11 v328		
SI	TTR001-12 v1.1.0		
	IOP001-12 v1.0.0		
	TIC-RT001-12 v131		
ED	TTR001-13 v2.0.0		
	IOP001-13 v1.0.0		
	TIC-RT001-13 v149		





ткр	TTR001-14 v1.0.3		
	IOP001-14 v1.0.0		
	TIC-RT001-14 v120		
LIP	TTR001-19 v1.1.0		
	IOP001-19 v1.1.0		
	TIC-RT001-19 v111		
CF	TTR001-20 v1.0.1		
	IOP001-20 v1.0.0		
	TIC-RT001-20 v110		



#### Feature compliance report

Test Session Core - Fu	Hytera August 2016 Bad Münder Jlly Witnessed Testing					
PASSED Spot     1_pass_of_8						
Initial registration	PASSED Spot 1_pass_of_3					
SwMI initiated location updating	Spot 0_pass_of_2					
LA timer based Periodic location updating	Spot 0_pass_of_2					
De-registration	Spot 0_pass_of_1					
Group Management	PASSED Spot 2_pass_of_13					
Single group attachment	Spot 0_pass_of_6					
Multiple group attachment	PASSED Spot 1_pass_of_5					
MS initiated group detachment	PASSED Spot 1_pass_of_2					
SwMI initiated group management	Spot 0_pass_of_1					
Group call	PASSED Spot 1_pass_of_11					
Normal group call	PASSED Spot 1_pass_of_4					
Late entry	Spot 0_pass_of_1					
Priority Group scanning	Spot 0_pass_of_3					
Call setup modifications	Spot 0_pass_of_1					
Resource Queuing based on Call Priority	Spot 0_pass_of_1					
Broadcast Call	Spot 0_pass_of_1					
Limited coverage notification	Not Supported					
Individual call	PASSED Spot 3_pass_of_11					
Simplex individual call	PASSED Spot 1_pass_of_4					
Duplex individual call	PASSED Spot 1_pass_of_2					
Call setup modifications	PASSED Spot 1_pass_of_3					



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Resource Queuing based on Call Priority	Spot 0_pass_of_2		
Indication of imminent call disconnection	Not Supported		
Status messages	PASSED Spot 1_pass_of_4		
Individual addressed Status transfer	PASSED Complete 1_pass_of_1		
Group addressed Status transfer	Spot 0_pass_of_3		
Pre-emptive Priority Call	PASSED Spot 2_pass_of_6		
Pre-emption of Resources	Spot 0_pass_of_2		
Pre-emption of Busy Users	PASSED Spot 2_pass_of_4		
Emergency Call	PASSED Spot 2_pass_of_4		
Pre-emption of Resources	PASSED Spot 1_pass_of_2		
Pre-emption of Busy Users	Spot 0_pass_of_1		
Call setup modifications	PASSED Complete 1 pass of 1		
Call disconnection by non-call owner	Not Supported		
Cell Re-selection	PASSED Spot 4_pass_of_16		
Undeclared	Spot 0_pass_of_1		
Unannounced	PASSED Spot 2_pass_of_7		
Announced - with Call Restoration	PASSED Spot 2_pass_of_8		
Announced - without Call Restoration	Not Supported		
Expedited	Not Supported		
Graceful Service Degradation Mode (GSDM)	Not Supported		
PSTN interconnect	PASSED Spot 1_pass_of_6		
TETRA Originated Call	Spot 0_pass_of_2		
PSTN Originated Call	Spot 0_pass_of_1		
DTMF over-dial	PASSED Complete 1_pass_of_1		
Emergency Telephone Calls	Spot 0_pass_of_2		
MS-ISDN Numbering	Spot 0_pass_of_4		
MS ISDN - Voice Call	Spot 0_pass_of_2		
MS-ISDN Status	Spot 0_pass_of_2		
In Call Signalling	PASSED Spot 1_pass_of_6		
Slow Signalling on Traffic Channel (SACCH)	Spot 0_pass_of_2		
Fast Signalling on Traffic Channel (FACCH)	PASSED Spot 1_pass_of_4		



Subscriber Class Procedures	PASSED Spot 1_pass_of_9		
Cell Selection based on Subscriber Class	Spot 0_pass_of_3		
Subscriber Class Delivery during Location Update	Spot 0_pass_of_3		
Use of Preferred Subscriber Classes	PASSED Spot 1_pass_of_3		
Common Secondary Control Channels	PASSED Spot 2_pass_of_6		
One C-SCCH per cell	Spot 0_pass_of_3		
Two C-SCCH per cell	PASSED Spot 2_pass_of_3		
Three C-SCCH per cell	PASSED Spot 1_pass_of_2		
BS Fallback Operation	PASSED Spot 3_pass_of_13		
Switch to/from BS Fallback Operation	Spot 0_pass_of_2		
Roaming to avoid a cell in BS Fallback	PASSED Spot		
Operation	1_pass_of_2		
Services with BS Fallback Operation	PASSED Spot 2_pass_of_8		
Ignore a cell in Fallback Operation	Spot 0_pass_of_1		
User selectable Fallback behaviour	Not Supported		
Energy Economy Mode			
Energy Economy Mode Operation	Not Supported		
Transmit Inhibit	PASSED Spot 1_pass_of_5		
TXI Activation & De-Activation	PASSED Spot 1_pass_of_4		
TXI Activation & De-Activation with TxI Status available to the Dispatcher	Not Supported		
Receipt of group addressed service during TXI	Spot 0_pass_of_1		
Mixed band operation			
Mixed band operation, inter-cell	Not Supported		
Mixed band operation, intra-cell	Not Supported		
Mixed band operation, Full	Not Supported		
SDS - Fu	lly Witnessed Testing		
SDS Type 1, 2 or 3	Spot 0_pass_of_3		
SDS Type 1	Spot 0_pass_of_1		
SDS Type 2	Spot 0_pass_of_1		
SDS Type 3	Spot 0_pass_of_1		
SDS-TL	PASSED Spot 2_pass_of_10		
Individually Addressed	PASSED Spot 1_pass_of_3		



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Group Addressed	PASSED Spot		
	1_pass_of_3		
Using MS-ISDN dialling	Spot 0_pass_of_4		
SDS Reception	PASSED Spot 1_pass_of_4		
Using UCS2 coding scheme	PASSED Spot 1_pass_of_2		
Using 7-bit coding scheme	Spot 0_pass_of_2		
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			
Individually Addressed	Not Supported		
Group Addressed	Not Supported		
Multipart SDS			
Multipart SDS	Not Supported		
DGNA - F	ully Witnessed Testing		
Support for individually addressed DCNA	PASSED Spot		
Support for individually addressed DGNA	3_pass_of_12		
Support for individually addressed DGNA assignment without attachment	Spot 0_pass_of_3		
Support for individually addressed DGNA assignment with attachment as selected group	PASSED Spot 1_pass_of_3		
Support for individually addressed DGNA assignment with attachment as scanned group	PASSED Spot 1_pass_of_3		
Support for individually addressed DGNA assignment with rejected attachment	PASSED Complete 1_pass_of_1		
Support for individually addressed assigment for pre-programmed group	PASSED Spot 1_pass_of_5		
Support for group addressed DGNA			
Support for group addressed DGNA assignment	Not Supported		
Management of 'group assignment lifetime'	Not Supported		
Support for group addressed DGNA deassignment	Not Supported		
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		
Auth - Fu	ully Witnessed Testing		



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SwMI Initiated (non-mutual)	PASSED Spot			
Authentication	1_pass_of_3			
Attach with authentication	PASSED Complete			
	1_pass_of_1			
Roaming with authentication	Spot 0_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			
	lly Witnessed Testing	<u> </u>		
	PASSED Spot			
Context Management	3_pass_of_12			
	PASSED Spot			
Context Activation	1_pass_of_8			
User authentication	PASSED Spot			
	2_pass_of_4			
Single Slot Packet Data	PASSED Spot			
	1_pass_of_10			
Data Transfer	PASSED Spot			
	1_pass_of_7			
Cell re-selection	Spot 0_pass_of_3			
Multi Slot Packet Data	PASSED Spot			
	1_pass_of_2			
Data Transfer	PASSED Spot			
	1_pass_of_2			
TEDS				
TEDS with Context Activation	Not Supported			
TEDS Data Transmission, using LLC	Not Supported			
Optimisation	Not Supported			
TEDS Cell Reselection, using LLC	Not Supported			
Optimisation	Not Supported			
Mixed band operation				
Mixed band operation, inter-cell	Not Supported			
Mixed band operation, intra-cell	Not Supported			
Mixed band operation, Full	Not Supported			
			I	I
AL - Ful	lly Witnessed Testing	1	1	
Ambience Listening	PASSED Spot 1_pass_of_5			
SS-AL Call Setup	Spot 0_pass_of_2			
MS initiated SS-AL disconnection	PASSED Spot 1_pass_of_3			



PASSED Spot 1_pass_of_5						
PASSED Complete						
PASSED Complete 1_pass_of_1						
E2EE - Fully Witnessed Testing						
PASSED Spot 2_pass_of_6						
PASSED Spot 1_pass_of_4						
PASSED Spot 1_pass_of_2						
Not Supported						
Not Supported						
Not Supported						
Illy Witnessed Testing						
Spot Incomplete 4_pass_of_15						
PASSED Spot 2_pass_of_3						
Not Supported						
PASSED Spot 1_pass_of_2						
PASSED Spot 1_pass_of_3						
Spot 0_pass_of_2						
Not Supported						
Spot 0_pass_of_2						
Spot 0_pass_of_2						
Incomplete						
0_pass_of_1						
PASSED Spot 2_pass_of_12						
PASSED Spot						
1_pass_of_3						
Not Supported						
Not Supported						
	1_pass_of_5PASSED Complete1_pass_of_1Not SupportedPASSED Complete1_pass_of_1ully Witnessed TestingPASSED Spot2_pass_of_6PASSED Spot1_pass_of_4PASSED Spot1_pass_of_2Not SupportedNot SupportedNot SupportedNot SupportedNot SupportedNot SupportedNot SupportedNot SupportedPASSED Spot2_pass_of_15PASSED Spot2_pass_of_3Not SupportedPASSED Spot1_pass_of_2PASSED Spot1_pass_of_3Spot 0_pass_of_2PASSED Spot1_pass_of_3Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_1PASSED Spot1_pass_of_3Spot 0_pass_of_2Spot 0_pass_of_3Not SupportedSpot 0_pass_of_3Not SupportedSpot 0_pass_of_3Not SupportedSpot 0_pass_of_3Not Supported	1_pass_of_5PASSED Complete1_pass_of_1Not SupportedPASSED Complete1_pass_of_1ully Witnessed TestingPASSED Spot2_pass_of_6PASSED Spot1_pass_of_4PASSED Spot1_pass_of_2Not SupportedNot SupportedNot SupportedIly Witnessed TestingSpot Incomplete4_pass_of_15PASSED Spot2_pass_of_3Not SupportedNot SupportedPASSED Spot2_pass_of_3Not SupportedPASSED Spot2_pass_of_3Not SupportedPASSED Spot1_pass_of_2PASSED Spot1_pass_of_3Spot 0_pass_of_2Not SupportedSpot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_3Not SupportedSpot 0_pass_of_3Not SupportedSpot 0_pass_of_3Not SupportedSpot 0_pass_of_2Not SupportedSpot 0_pass_of_3Not SupportedNot Supported <t< td=""><td>1_pass_of_5PASSED Complete1_pass_of_1Not SupportedPASSED Complete1_pass_of_1ully Witnessed TestingPASSED Spot2_pass_of_6PASSED Spot1_pass_of_4PASSED Spot1_pass_of_4PASSED Spot1_pass_of_2Not SupportedNot SupportedNot SupportedIlly Witnessed TestingSpot Incomplete4_pass_of_15PASSED Spot2_pass_of_3Not SupportedIlly Witnessed TestingSpot Incomplete4_pass_of_15PASSED Spot2_pass_of_3Not SupportedPASSED Spot1_pass_of_2PASSED Spot1_pass_of_2PASSED Spot1_pass_of_2PASSED Spot1_pass_of_3Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Incomplete0_pass_of_1PASSED Spot1_pass_of_3Not SupportedSpot 0_pass_of_2Spot 0_pass_of_2PASSED Spot1_pass_of_3Not SupportedNot Supported</td></t<>	1_pass_of_5PASSED Complete1_pass_of_1Not SupportedPASSED Complete1_pass_of_1ully Witnessed TestingPASSED Spot2_pass_of_6PASSED Spot1_pass_of_4PASSED Spot1_pass_of_4PASSED Spot1_pass_of_2Not SupportedNot SupportedNot SupportedIlly Witnessed TestingSpot Incomplete4_pass_of_15PASSED Spot2_pass_of_3Not SupportedIlly Witnessed TestingSpot Incomplete4_pass_of_15PASSED Spot2_pass_of_3Not SupportedPASSED Spot1_pass_of_2PASSED Spot1_pass_of_2PASSED Spot1_pass_of_2PASSED Spot1_pass_of_3Spot 0_pass_of_2Spot 0_pass_of_2Spot 0_pass_of_2Incomplete0_pass_of_1PASSED Spot1_pass_of_3Not SupportedSpot 0_pass_of_2Spot 0_pass_of_2PASSED Spot1_pass_of_3Not SupportedNot Supported			



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DCK Forwarding by SwMI (without MS request)	Not Supported		
DCK Retrieval	Not Supported		
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	Not Supported		
Change of CCK	Not Supported		
Packet Data with Class 3 Air Interface Encryption	Spot 0_pass_of_2		
Security Class 3G Air Interface Encryption			
GCK Key Association setting	Not Supported		
Communications between parties using encryption	Not Supported		
Communications between clear and encrypted parties	Not Supported		
OTAR of GCK	Not Supported		
Change of GCK	Not Supported		
Management of CMG and GSKO			
OTAR and change of CMG and GSKO	Not Supported		
Key Status demand			
SCK Key Status demand	Not Supported		
GCK Key Status demand	Not Supported		
GSKO Key Status demand	Not Supported		
Change of Security Class for Fallback operation			
Seamless change to Security Class 2 for BS Fallback operation	Not Supported		
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported		
Provisioning of TM-SCK for fallback to Security Class 2 operation	Not Supported		
Change to Security Class 1 for BS Fallback operation	Not Supported		
Change of Security Class (other than for Fallback operation)			
Change between Security Class 3 and Security Class 3G	Not Supported		
Change between Security Class 2 and Security Class 3	Not Supported		
Change from Security Class 3G to Security Class 2	Not Supported		





Key Management for Secure Direct Mode Operation			
OTAR of DM-SCK	Not Supported		
Change of DM-SCK	Not Supported		
SI - Ful	ly Witnessed Testing		
MS initiated Service Interaction	PASSED Spot 2_pass_of_7		
MS initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 2_pass_of_5		
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_10		
SwMI initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 2_pass_of_8		
SwMI initiated Circuit Mode Call during Packet Mode Transfer	Spot 0_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		
ED - Fu	lly Witnessed Testing		
Enable and temporary disable of an MS	PASSED Spot 5_pass_of_20		
Enable and temporary disable of an MS without authentication	PASSED Spot 1_pass_of_6		
Enable and temporary disable of an MS with authentication	PASSED Spot 2_pass_of_6		
Registration of a temporary disabled MS	PASSED Spot 1_pass_of_2		
Rejection of applicable invalid enable/disable requests	PASSED Spot 1_pass_of_4		
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	Spot 0_pass_of_2		
Permanent disable of an MS	Spot 0_pass_of_4		
Permanent disable of an MS with authentication	Spot 0_pass_of_3		
Permanently Disabled MS cannot send air interface signalling	Spot 0_pass_of_1		



TKD - Fully Witnessed Testing				
Delivery of Authentication Data	PASSED Spot			
Delivery of Authentication Data	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			
LIP - Fu	lly Witnessed Testing			
	PASSED Spot			
Location Information Protocol	3_pass_of_12			
LIP over SDS	PASSED Spot 2_pass_of_7			
LIP over Packet Data	Not Supported			
Time based reporting	PASSED Spot 1_pass_of_4			
Distance based reporting - NOT TESTABLE	Not Supported			
Reporting using Long reports	Spot 0_pass_of_1			
Reporting Enable & Disable	Spot 0_pass_of_1			
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			
Positioning on Individual Call Setup	Not Supported			
CF - Ful	ly Witnessed Testing			
Call Forwarding Unconditional	Spot 0_pass_of_3			
Call Forwarding Unconditional Individual Call	Spot 0_pass_of_1			
Call Forwarding Unconditional SDS	Spot 0_pass_of_1			



Call Forwarding Unconditional Status	Spot 0_pass_of_1		
Call Forwarding Conditional	PASSED Spot		
	2_pass_of_3		
Call Famura dia a Cara disting al Individual Call	PASSED Spot		
Call Forwarding Conditional Individual Call	2_pass_of_3		
Call Forwarding Information Displayed			
Call Forwarding Information Displayed	Not Supported		