

TETRA Interoperability Certificate

Motorola Solutions, Dimetra IP R9.0, SwMI – Sepura, SC20, Terminal

Kraków, September 2017

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|--------------------------------------|-----------------|--|----------------|
| Latest Certified SwMI SW Release: | R9.0 | Latest Certified Terminal SW Release: | 1746 019 08522 |
| Latest Certified SwMI HW Release: | Dimetra IP R9.0 | Latest Certified Terminal HW Release: | TP01STW |

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola Solutions, Dimetra IP R9.0, SwMI and the Sepura, SC20, 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 multiple test session between Motorola Solutions and Sepura on September 2017. 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.

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v1

Certified features

| 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 |
| TTR001-02:SDS | |
| SDS Type 1, 2 or 3 | - |
| SDS-TL | Certified |
| Store and Forward | Certified |
| Multipart SDS | - |
| TTR001-03:DGNA | |
| Support for individually addressed DGNA | Certified |

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|---|-----------|
| Support for group addressed DGNA | Certified |
| Tolerance of unsupported DGNA functions | - |
| TTR001-04:Auth | |
| SwMI Initiated (non-mutual) Authentication | Certified |
| SwMI Initiated Authentication made Mutual by MS | Certified |
| TEI Query | - |
| TTR001-05:PD | |
| Context Management | Certified |
| Single Slot Packet Data | Certified |
| Multi Slot Packet Data | Certified |
| TEDS | - |
| Mixed band operation | Certified |
| TTR001-06:AIM | |
| Registration | Certified |
| Group management | Certified |
| Group call | Certified |
| Individual call | Certified |
| Status/SDS message | Certified |
| Security | Certified |
| TTR001-09:AL | |
| Ambience Listening | Certified |
| Interaction with Transmit Inhibit | Certified |
| TTR001-10:E2EE | |
| E2EE Voice Call | Certified |
| TTR001-11:AIE | |
| Security Class 2 Air Interface Encryption | Certified |
| Security Class 3 Air Interface Encryption | Certified |
| Security Class 3G Air Interface Encryption | Certified |
| Management of CMG and GSKO | Certified |

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| 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 |
| TTR001-12:SI | |
| MS initiated Service Interaction | Certified |
| SwMI initiated Service Interaction | Certified |
| Call Waiting | - |
| TTR001-13:ED | |
| Enable and temporary disable of an MS | Certified |
| Permanent disable of an MS | Certified |
| TTR001-14:TKD | |
| Delivery of Authentication Data | Certified |
| Delivery of SCK | Certified |
| Delivery method | Certified |
| TTR001-17:RUA | |
| Radio User Assignment | - |
| TTR001-19:LIP | |
| Location Information Protocol | Certified |
| TTR001-20:CF | |
| Call Forwarding Unconditional | Certified |
| Call Forwarding Conditional | Certified |
| Call Forwarding Information Displayed | - |
| Management of Call Forwarding | - |
| TTR001-21:Callout | |
| Full Callout | Certified |
| Simple Callout | Certified |
| Interaction with other services and events | Certified |
| Callout Test and Callout Availability | Certified |



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|--|-----------|
| 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' results depend on a set of sub-features, the verdicts 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 a white background.

The outcome assigned to a 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 tests linked to this functionality failed to match the TIP specification relevant to this feature or sub-feature |

The verdict associated to the feature or sub-feature gives also indication about the method used to test that feature or sub-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 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 unwitnessed 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 |
|------------|------------|
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| 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 TCCA web site (<https://tcca.info/interoperability/interoperability-certificates-and-test-reports/>).

The feature results are shown in the tables below.

Information on equipment under test and document references

| | | | | |
|---|---|--|--|--|
| Test Session Date/Place | Motorola Solutions, Kraków, September 2017 | | | |
| SwMI Type | Dimetra IP R9.0 | | | |
| SwMI HW Release | Dimetra IP R9.0 | | | |
| SwMI SW Release | R9.0 | | | |
| Terminal Type | SC20 | | | |
| Terminal HW Release | TP01STW | | | |
| Terminal SW Release | 1746 019 08522 | | | |
| TIP Specs and TIP Compliance Test Plans | | | | |

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|-------------|---|--|--|--|
| Core | TTR001-01 v6.2.2 IOP001-01 v3.2.1 TIC-RT001-01 v271 | | | |
| SDS | TTR001-02 v2.1.3 IOP001-02 v2.1.0 TIC-RT001-02 v222 | | | |
| DGNA | TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v228 | | | |
| Auth | TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v230 | | | |
| PD | TTR001-05 v4.1.0 IOP001-05 v4.1.0 TIC-RT001-05 v405 | | | |
| AIM | TTR001-06 v2.1.0 IOP001-06 v1.0.0 TIC-RT001-06 v126 | | | |
| AL | TTR001-09 v2.1.0 IOP001-09 v1.2.0 TIC-RT001-09 v129 | | | |
| E2EE | TTR001-10 v2.1.0 IOP001-10 v1.2.0 TIC-RT001-10 v128 | | | |
| AIE | TTR001-11 v3.1.0 IOP001-11 v3.1.0 TIC-RT001-11 v331 | | | |
| SI | TTR001-12 v1.1.0 IOP001-12 v1.0.0 TIC-RT001-12 v133 | | | |
| ED | TTR001-13 v2.1.0 IOP001-13 v1.0.0 TIC-RT001-13 v151 | | | |
| TKD | TTR001-14 v1.0.3 IOP001-14 v1.2.0 TIC-RT001-14 v122 | | | |

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|---|---|--|--|--|
| RUA | TTR001-17 v1.1.0 IOP001-17 v1.0.0 TIC-RT001-17 v114 | | | |
| LIP | TTR001-19 v1.1.0 IOP001-19 v1.2.0 TIC-RT001-19 v114 | | | |
| CF | TTR001-20 v1.0.1 IOP001-20 v1.0.0 TIC-RT001-20 v114 | | | |
| Callout | TTR001-21 v2.1.1 IOP001-21 v2.2.0 TIC-RT001-21 v114 | | | |
| SwMI Test bench Callout Application SW Release | -Call Out Console v2.7.0 rev 10 - SDTS R02.00.05 | | | |

Feature compliance report

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|---|--|--|--|--|
| Test Session | Motorola Solutions, September 2017 Krakow | | | |
| Core - Fully Witnessed Testing | | | | |
| Registration | PASSED Spot 1_pass_of_5 | | | |
| Initial registration | PASSED Spot 1_pass_of_2 | | | |
| SwMI initiated location updating | Spot 0_pass_of_2 | | | |
| LA timer based Periodic location updating | Not Supported | | | |

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|---|-----------------------------|--|--|--|
| De-registration | Spot 0_pass_of_1 | | | |
| Group Management | PASSED Spot 3_pass_of_10 | | | |
| Single group attachment | PASSED Spot 2_pass_of_5 | | | |
| Multiple group attachment | PASSED Spot 1_pass_of_4 | | | |
| MS initiated group detachment | Spot 0_pass_of_1 | | | |
| SwMI initiated group management | Not Supported | | | |
| Group call | PASSED Spot 1_pass_of_9 | | | |
| Normal group call | Spot 0_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 | Spot 0_pass_of_1 | | | |
| Broadcast Call | Not Supported | | | |
| Limited coverage notification | Not Supported | | | |
| Individual call | PASSED Spot 2_pass_of_7 | | | |
| Simplex individual call | PASSED Spot 1_pass_of_3 | | | |
| Duplex individual call | PASSED Spot 1_pass_of_2 | | | |
| Call setup modifications | Not Supported | | | |
| Resource Queuing based on Call Priority | Spot 0_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_2 | | | |

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|--|--------------------------------|--|--|--|
| Pre-emption of Resources | Spot 0_pass_of_1 | | | |
| Pre-emption of Busy Users | Spot 0_pass_of_1 | | | |
| Emergency Call | PASSED Spot 1_pass_of_2 | | | |
| Pre-emption of Resources | PASSED Complete 1_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 | Spot 0_pass_of_3 | | | |
| Announced - with Call Restoration | PASSED Spot 2_pass_of_12 | | | |
| Announced - without Call Restoration | Not Supported | | | |
| Expedited | Not Supported | | | |
| Graceful Service Degradation Mode (GSDM) | Not Supported | | | |
| PSTN interconnect | PASSED Spot 1_pass_of_4 | | | |
| 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 | 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 | | | |

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|--|--------------------------|--|--|--|
| Fast Signalling on Traffic Channel (FACCH) | Spot 0_pass_of_1 | | | |
| Subscriber Class Procedures | PASSED Spot 2_pass_of_6 | | | |
| Cell Selection based on Subscriber Class | PASSED Spot 2_pass_of_3 | | | |
| Subscriber Class Delivery during Location Update | Not Supported | | | |
| Use of Subscriber Class Preference Levels | Spot 0_pass_of_3 | | | |
| Common Secondary Control Channels | PASSED Spot 1_pass_of_7 | | | |
| One C-SCCH per cell | Spot 0_pass_of_5 | | | |
| Two C-SCCH per cell | PASSED Spot 1_pass_of_2 | | | |
| Three C-SCCH per cell | Spot 0_pass_of_2 | | | |
| BS Fallback Operation | PASSED Spot 2_pass_of_10 | | | |
| Switch to/from BS Fallback Operation | Spot 0_pass_of_2 | | | |
| Roaming to avoid a cell in BS Fallback Operation | PASSED Spot 1_pass_of_2 | | | |
| Services with BS Fallback Operation | PASSED Spot 1_pass_of_5 | | | |
| 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 6_pass_of_9 | | | |
| TXI Activation & De-Activation | PASSED Spot 3_pass_of_4 | | | |
| TXI Activation & De-Activation with TxI Status available to the Dispatcher | PASSED Spot 3_pass_of_4 | | | |
| Receipt of group addressed service during TXI | Spot 0_pass_of_1 | | | |

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|--|--------------------------------|--|--|--|
| Mixed band operation | PASSED Spot 1_pass_of_4 | | | |
| Mixed band operation, inter-cell | PASSED Spot 1_pass_of_4 | | | |
| Mixed band operation, intra-cell | PASSED Spot 1_pass_of_3 | | | |
| Mixed band operation, Full | PASSED Spot 1_pass_of_3 | | | |
| SDS - Fully Witnessed Testing | | | | |
| 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 3_pass_of_16 | | | |
| Individually Addressed | PASSED Spot 1_pass_of_3 | | | |
| Group Addressed | Spot 0_pass_of_3 | | | |
| Using MS-ISDN dialling | Not Supported | | | |
| SDS Reception | PASSED Spot 1_pass_of_8 | | | |
| Using UCS2 coding scheme | Spot 0_pass_of_2 | | | |
| Using 7-bit coding scheme | Spot 0_pass_of_2 | | | |
| Using 8-bit Latin 1 coding scheme | PASSED Complete 2_pass_of_2 | | | |
| Using 8-bit Latin/Cyrillic coding scheme | Spot 0_pass_of_2 | | | |
| Using 8-bit Latin 9 coding scheme | Spot 0_pass_of_2 | | | |
| Store and Forward | PASSED Spot 1_pass_of_3 | | | |
| Individually Addressed | PASSED Spot 1_pass_of_3 | | | |
| Group Addressed | Not Supported | | | |
| Multipart SDS | | | | |

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|--|--------------------------------|--|--|--|
| Multipart SDS | Not Supported | | | |
| DGNA - Fully Witnessed Testing | | | | |
| Support for individually addressed DGNA | PASSED Spot 2_pass_of_11 | | | |
| Support for individually addressed DGNA assignment without attachment | PASSED Spot 1_pass_of_4 | | | |
| Support for individually addressed DGNA assignment with attachment as selected group | Spot 0_pass_of_2 | | | |
| 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 | Not Supported | | | |
| Support for individually addressed assignment for pre-programmed group | Spot 0_pass_of_5 | | | |
| Support for group addressed DGNA | PASSED Spot 2_pass_of_5 | | | |
| Support for group addressed DGNA assignment | PASSED Spot 1_pass_of_2 | | | |
| Management of 'group assignment lifetime' | Spot 0_pass_of_2 | | | |
| Support for group addressed DGNA deassignment | PASSED Complete 1_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 | | | |
| Auth - Fully Witnessed Testing | | | | |
| SwMI Initiated (non-mutual) Authentication | Spot 0_pass_of_3 | | | |
| Attach with authentication | Spot 0_pass_of_1 | | | |
| Roaming with authentication | Spot 0_pass_of_1 | | | |
| SwMI rejects MS during authentication | Spot 0_pass_of_1 | | | |

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|---|--------------------------------|--|--|--|
| MS rejects SwMI during authentication | Not Supported | | | |
| SwMI Initiated Authentication made Mutual by MS | PASSED Spot 1_pass_of_2 | | | |
| Attach with authentication | Spot 0_pass_of_1 | | | |
| Roaming with authentication | PASSED Complete 1_pass_of_1 | | | |
| TEI Query | | | | |
| TEI Query Operation | Not Supported | | | |
| PD - Fully Witnessed Testing | | | | |
| Context Management | Spot 0_pass_of_11 | | | |
| Context Activation | Spot 0_pass_of_7 | | | |
| User authentication | Spot 0_pass_of_4 | | | |
| Single Slot Packet Data | PASSED Spot 3_pass_of_10 | | | |
| Data Transfer | PASSED Spot 1_pass_of_6 | | | |
| Cell re-selection | PASSED Spot 1_pass_of_3 | | | |
| Packet Data Channel sharing | PASSED Complete 1_pass_of_1 | | | |
| Multi Slot Packet Data | PASSED Spot 2_pass_of_4 | | | |
| Data Transfer | PASSED Spot 2_pass_of_4 | | | |
| TEDS | | | | |
| TEDS with Context Activation | Not Supported | | | |
| TEDS Data Transmission, using LLC Optimisation | Not Supported | | | |
| TEDS Cell Reselection, using LLC Optimisation | Not Supported | | | |
| Mixed band operation | PASSED Spot 1_pass_of_2 | | | |
| Mixed band operation, inter-cell | PASSED Spot | | | |

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|---|--------------------------------|--|--|--|
| | 1_pass_of_2 | | | |
| Mixed band operation, intra-cell | PASSED Spot 1_pass_of_2 | | | |
| Mixed band operation, Full | PASSED Spot 1_pass_of_2 | | | |
| AIM - Fully Witnessed Testing | | | | |
| Registration | PASSED Complete 4_pass_of_4 | | | |
| Migrating | PASSED Complete 4_pass_of_4 | | | |
| Group management | PASSED Complete 1_pass_of_1 | | | |
| Local group attachment on Foreign SwMI | PASSED Complete 1_pass_of_1 | | | |
| Foreign group attachment | Not Supported | | | |
| Group call | PASSED Complete 1_pass_of_1 | | | |
| Group call to local group on foreign SwMI | PASSED Complete 1_pass_of_1 | | | |
| Group call to foreign group | Not Supported | | | |
| Individual call | PASSED Complete 2_pass_of_2 | | | |
| SSI/TSI addressed | PASSED Complete 1_pass_of_1 | | | |
| FSSN addressed | Not Supported | | | |
| MS-ISDN addressed | PASSED Complete 1_pass_of_1 | | | |
| Status/SDS message | PASSED Complete 3_pass_of_3 | | | |
| Individually addressed SDS | PASSED Complete 1_pass_of_1 | | | |
| Group addressed SDS | PASSED Complete 1_pass_of_1 | | | |

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|--|--------------------------------|--|--|--|
| Individually addressed Status | Not Supported | | | |
| Group addressed Status | Not Supported | | | |
| SDS Store & Forward | Not Supported | | | |
| Txl Status | PASSED Complete 1_pass_of_1 | | | |
| Security | PASSED Complete 1_pass_of_1 | | | |
| Air Interface Encryption, Class 3 | PASSED Complete 1_pass_of_1 | | | |
| AL - Fully Witnessed Testing | | | | |
| 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 | | | |
| No Indication to affected user | PASSED Spot 1_pass_of_5 | | | |
| Interaction with Transmit Inhibit | PASSED Spot 1_pass_of_2 | | | |
| AL can override TxI | PASSED Complete 1_pass_of_1 | | | |
| AL cannot override TxI | Spot 0_pass_of_1 | | | |
| E2EE - Fully Witnessed Testing | | | | |
| E2EE Voice Call | PASSED Spot 2_pass_of_10 | | | |
| Individual (P2P) call | PASSED Spot 1_pass_of_4 | | | |
| Group (P2MP) call | Spot 0_pass_of_2 | | | |
| Clear Voice Override (CVO): Acceptance | Spot 0_pass_of_1 | | | |
| Clear Voice Override (CVO): User Initiated | Spot 0_pass_of_2 | | | |
| Clear Voice Override (CVO): Automatic | PASSED Complete 1_pass_of_1 | | | |

| AIE - Fully Witnessed Testing | | | | |
|--|-----------------------------|--|--|--|
| Security Class 2 Air Interface Encryption | PASSED Spot 5_pass_of_20 | | | |
| Location Updating and AI Signalling Protection | PASSED Spot 1_pass_of_7 | | | |
| TM-SCK provisioning during location updating | Spot 0_pass_of_2 | | | |
| 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 | PASSED Spot 1_pass_of_2 | | | |
| OTAR of TM-SCK | Spot 0_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_2 | | | |
| Tolerance of SwMI not supporting SCK-OTAR | Not Supported | | | |
| Security Class 3 Air Interface Encryption | PASSED Spot 5_pass_of_25 | | | |
| Clear Location Updating and AI Signalling Protection | Spot 0_pass_of_4 | | | |
| Encrypted Location Updating and AI Signalling Protection | PASSED Spot 2_pass_of_8 | | | |
| DCK Forwarding at MS request | Not Supported | | | |
| DCK Forwarding by SwMI (without MS request) | Spot 0_pass_of_1 | | | |
| DCK Retrieval | PASSED Spot 2_pass_of_7 | | | |
| CCK provisioning during location updating | PASSED Spot 1_pass_of_7 | | | |
| Communications between parties using encryption | Spot 0_pass_of_2 | | | |

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|--|--------------------------------|--|--|--|
| 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 CCK | Spot 0_pass_of_2 | | | |
| Change of CCK | PASSED Spot 1_pass_of_4 | | | |
| Packet Data with Class 3 Air Interface Encryption | Spot 0_pass_of_2 | | | |
| Security Class 3G Air Interface Encryption | PASSED Spot 3_pass_of_8 | | | |
| GCK Key Association setting | Spot 0_pass_of_2 | | | |
| Communications between parties using encryption | Spot 0_pass_of_2 | | | |
| Communications between clear and encrypted parties | PASSED Complete 1_pass_of_1 | | | |
| OTAR of GCK | PASSED Spot 1_pass_of_2 | | | |
| Change of GCK | PASSED Spot 2_pass_of_3 | | | |
| Management of CMG and GSKO | Spot 0_pass_of_5 | | | |
| OTAR and change of CMG and GSKO | Spot 0_pass_of_5 | | | |
| Key Status demand | Spot 0_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 | Spot 0_pass_of_1 | | | |
| Change of Security Class for Fallback operation | PASSED Spot 3_pass_of_12 | | | |
| Seamless change to Security Class 2 for BS Fallback operation | PASSED Spot 3_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 | | | |

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| 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 | PASSED Spot 1_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 | Spot 0_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 | | | |
| SI - Fully Witnessed Testing | | | | |
| MS initiated Service Interaction | PASSED Spot 2_pass_of_6 | | | |
| MS initiated Circuit Mode Call during another Circuit Mode Call | PASSED Spot 1_pass_of_4 | | | |
| MS initiated Circuit Mode Call during Packet Mode Transfer | PASSED Spot 1_pass_of_2 | | | |
| MS initiated Packet Mode Transfer during Circuit Mode Call | Not Supported | | | |
| SwMI initiated Service Interaction | PASSED Spot 1_pass_of_8 | | | |
| SwMI initiated Circuit Mode Call during another Circuit Mode Call | Spot 0_pass_of_6 | | | |
| 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 | | | |

| ED - Fully Witnessed Testing | | | | |
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| 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 | Spot 0_pass_of_2 | | | |
| Rejection of applicable invalid enable/disable requests | PASSED Spot 1_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 | | | |
| TKD - Fully Witnessed Testing | | | | |
| Delivery of Authentication Data | PASSED Spot 1_pass_of_2 | | | |
| Authentication Key Delivery | PASSED Complete 1_pass_of_1 | | | |
| ITSI Delivery | Spot 0_pass_of_1 | | | |
| Delivery of SCK | Spot 0_pass_of_1 | | | |
| SCK Delivery to SCK delivery | Not Supported | | | |
| SCK Delivery to SwMI | Spot 0_pass_of_1 | | | |
| SCK Delivery to SCK loading | Not Supported | | | |
| Delivery method | PASSED Spot 1_pass_of_3 | | | |
| Plain text on physical media | PASSED Spot 1_pass_of_3 | | | |

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| Encrypted text on physical media | Not Supported | | | |
| Electronic transfer | Not Supported | | | |
| RUA - Fully Witnessed Testing | | | | |
| Radio User Assignment | FAILED Spot 2_pass_of_13 | | | |
| Radio User Assignment at Location Updating | Spot 0_pass_of_6 | | | |
| Dispatcher initiated Radio User Assignment | FAILED Spot 0_pass_of_2 | | | |
| Radio User Dis-assignment | PASSED Spot 2_pass_of_5 | | | |
| LIP - Fully Witnessed Testing | | | | |
| Location Information Protocol | PASSED Spot 5_pass_of_22 | | | |
| LIP over SDS | PASSED Spot 2_pass_of_11 | | | |
| LIP over Packet Data | Not Supported | | | |
| Time based reporting | PASSED Spot 1_pass_of_5 | | | |
| Distance based reporting - NOT TESTABLE | Not Supported | | | |
| Reporting using Short reports | Spot 0_pass_of_2 | | | |
| Reporting using Long reports | Spot 0_pass_of_2 | | | |
| Reporting Enable & Disable | PASSED Spot 1_pass_of_2 | | | |
| User control of Reporting | Spot 0_pass_of_1 | | | |
| Temporary reporting control | PASSED Complete 1_pass_of_1 | | | |
| Trigger modification | Spot 0_pass_of_1 | | | |
| Control of Basic Location Parameters | Spot 0_pass_of_1 | | | |
| Immediate Location Reporting | Spot 0_pass_of_1 | | | |
| Reporting Lifetimes | Spot 0_pass_of_1 | | | |
| Error Reporting using Long Reports | Spot 0_pass_of_1 | | | |
| Error Reporting using Short Reports | PASSED Complete | | | |

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| | 1_pass_of_1 | | | |
| Positioning on Individual Call Setup | Not Supported | | | |
| CF - Fully Witnessed Testing | | | | |
| Call Forwarding Unconditional | Spot 0_pass_of_1 | | | |
| Call Forwarding Unconditional Individual Call | Spot 0_pass_of_1 | | | |
| Call Forwarding Unconditional SDS | Not Supported | | | |
| Call Forwarding Unconditional Status | Not Supported | | | |
| Call Forwarding Conditional | PASSED Spot 1_pass_of_3 | | | |
| Call Forwarding Conditional Individual Call | PASSED Spot 1_pass_of_3 | | | |
| Call Forwarding Information Displayed | | | | |
| Call Forwarding Information Displayed | Not Supported | | | |
| Management of Call Forwarding | | | | |
| Change of Call Forwarding Activation Status by Served User | Not Supported | | | |
| Setting of Call Forwarding Parameters by Served User | Not Supported | | | |
| Callout - Fully Witnessed Testing | | | | |
| Full Callout | PASSED Spot 3_pass_of_15 | | | |
| Individually Addressed Full Callout with request for Terminal Receipt message and with request for User Receipt message | Spot 0_pass_of_2 | | | |
| Group Addressed Full Callout without request for Terminal Receipt message and without request for User Receipt message | Spot 0_pass_of_2 | | | |
| Using current selected group during Full Callout | Spot 0_pass_of_1 | | | |
| Full Callout with immediate change to Callout Group | Spot 0_pass_of_2 | | | |
| 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 | | | |

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| Full Callout with timeout for User Receipt message | PASSED Complete 1_pass_of_1 | | | |
| Callout Incident Information messages | Spot 0_pass_of_2 | | | |
| Group Call to Callout Group | PASSED Spot 1_pass_of_4 | | | |
| End of Full Callout | PASSED Spot 1_pass_of_3 | | | |
| Simple Callout | PASSED Spot 1_pass_of_6 | | | |
| Individually Addressed Callout with request for Terminal Receipt message and with request for User Receipt message | Spot 0_pass_of_1 | | | |
| Individually Addressed Callout with request for Terminal Receipt message and without request for User Receipt message | Spot 0_pass_of_1 | | | |
| Group Addressed Callout without request for Terminal Receipt message and without request for User Receipt message | Spot 0_pass_of_1 | | | |
| Group Addressed Callout without request for Terminal Receipt message and with request for User Receipt message | Spot 0_pass_of_1 | | | |
| Simple Callout with rejecting User Receipt message | Spot 0_pass_of_1 | | | |
| Simple Callout with timeout for User Receipt message | PASSED Complete 1_pass_of_1 | | | |
| Interaction with other services and events | PASSED Spot 6_pass_of_30 | | | |
| Interaction with previous Callout | Spot 0_pass_of_2 | | | |
| Interaction with emergency call | PASSED Spot 1_pass_of_4 | | | |
| Interaction with non-emergency call | PASSED Spot 5_pass_of_11 | | | |
| Interaction with data and status | Spot 0_pass_of_11 | | | |

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| Interaction with local services | Not Supported | | | |
| Manual exit | Spot 0_pass_of_2 | | | |
| Callout Test and Callout Availability | Spot 0_pass_of_2 | | | |
| Callout Test | Spot 0_pass_of_2 | | | |
| Callout Availability | Not Supported | | | |
| Callout Availability request | Not Supported | | | |
| Callout Text and Callout Pre-Coded Status | PASSED Spot 4_pass_of_15 | | | |
| Callout Text | PASSED Spot 1_pass_of_6 | | | |
| Concatenated Callout Text using Callout Specific Concatenation | PASSED Spot 1_pass_of_2 | | | |
| Concatenated Callout Text using mSDS | Not Supported | | | |
| Callout Pre-Coded Status | PASSED Spot 2_pass_of_7 | | | |
| Storage of Callout Information | Spot 0_pass_of_2 | | | |
| Viewing Callout information from previous Callout(s) | Spot 0_pass_of_1 | | | |
| Deletion of Callout information from previous Callout(s) | Spot 0_pass_of_1 | | | |