# TETRA ASSOCIATION

ISCTI

## TETRA Interoperability Certificate

**Teltronic, NEBULA, SwMI – Sepura, SRH3800, Terminal**

**Zaragoza, March 2010**

| | | | |
|---|---|---|---|
| **Latest Certified SwMI SW Release:** | 09.15.50 | **Latest Certified Terminal SW Release:** | 1667 008 02935 |
| **Latest Certified SwMI HW Release:** | 09.15.13.18 | **Latest Certified Terminal HW Release:** | PSHTW201T400G00 |

ISCOM (Istituto Superiore della Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Teltronic, NEBULA, SwMI and the Sepura, SRH3800, terminal have been subject to interoperability testing for the "certified" features listed on the second page of this certificate. In accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and the related TETRA interoperability requirement tables.
The table lists all the available TETRA interoperability profiles, and summarises 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).
A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.
Detailed test results and explanation about the procedure used to provide verdicts are listed in the Test Report associated to the Certificate.

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**Date of issue:**
**03 August 2010**

## 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** | - |
| **Common Secondary Control Channels** | Certified |
| **BS Fallback Operation** | Certified |
| **Energy Economy Mode** | - |
| **Transmit Inhibit** | Certified |
| **Tetra Association TTR001-02:SDS** | |
| **SDS Type 1, 2 or 3** | - |
| **SDS-TL** | Certified |
| **Store and Forward** | - |
| **Tetra Association TTR001-03:DGNA** | |
| **Support for individually addressed DGNA** | Certified |
| **Support for group addressed DGNA** | Certified |
| **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 |
| **Tetra Association TTR001-09:AL** | |
| **Ambience Listening** | Certified |
| **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** | - |
| **Security Class 3 Air Interface Encryption** | Certified |
| **Security Class 3G Air Interface Encryption** | - |
| **Change of CMG and GSKO** | - |
| **Key Status demand** | - |
| **Change of Security Class for Fallback operation** | - |
| **Change of Security Class (other than for Fallback operation)** | - |
| **Key Management for Secure Direct Mode Operation** | - |
| **Tetra Association TTR001-12:SI** | |
| **MS initiated Service Interaction** | Certified |
| **SwMI initiated Service Interaction** | Certified |
| **Tetra Association TTR001-13:ED** | |
| **Enable and temporary disable of an MS** | Certified |
| **Permanent disable of an MS** | 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 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 grey background and the associated sub-features (or second level features) have white background.

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

| Verdict | 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 verdict assigned to a sub feature 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 (note x)** | 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.<br>A note can be associated to this result, if further clarification on the behaviour of the equipment is needed |
| **Time_limited** | Not all Mandated tests (as per TIC-RT indication) have been executed (ran out of time) |

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 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 annex A |
| **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 annex A |
| **Regression on spot** | The regression method has been applied on the verdicts based on the spot testing method |

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 |
|---|---|
| **SwMI-nr MS-nr** | The SwMI and MS do not support the minimum features required to verify these items. |
| **SwMI-nr** | The SwMI does not support the minimum features required to verify these items. |
| **MS-nr** | The MS does not support the minimum features required to verify these items. |

ISCOM has made every effort to ensure that every result has been correctly evaluated in accordance with the relevant TIPs, Test Plans and TIC-RTs. ISCOM 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 Association web site (http://www.tetra-association.com/tetramou.aspx?&id=2636).

The feature results are shown in the tables below

## Information on equipment under test and document references

| Test Session Date/Place | Teltronic, Zaragoza, March 2010 | Teltronic, Zaragoza, March 2008 | Teltronic, Zaragoza, November 2006 | |
|---|---|---|---|---|
| SwMI Type | NEBULA | NEBULA | NEBULA | |
| SwMI HW Release | 09.15.13.18 | 07.11.09.14 | V06.08.06.11 | |
| SwMI SW Release | 09.15.50 | 7.11 | V06.08.30 | |
| Terminal Type | SRH3800 | SRH3800 | SRH3800 | |
| Terminal HW Release | PSHTW201T400G00 | PSHTW201T400G00 | PSHTW201T400G00 | |
| Terminal SW Release | 1667 008 02935 | 1639 011 02935 | 2200111201002 | |
| TIP Specs and TIP Compliance Test Plans | | | | |
| Core | TTR001-01 v5.1.1<br>IOP001-01 v2.6.0<br>TIC-RT001-01 v242 | TTR001-01 v500<br>IOP001-01 v260<br>TIC-RT001-01 v231 | Tested with Matrix | |
| SDS | TTR001-02 v2.1.0<br>IOP001-02 v2.0.0<br>TIC-RT001-02 v210 | TTR001-02 v201<br>IOP001-02 v200<br>TIC-RT001-02 v202 | TTR001-02 v2.0.1<br>IOP001-02 v2.0.0<br>TIC-RT001-02 v2.0.1 | |
| DGNA | TTR001-03 v2.0.0<br>IOP001-03 v2.0.1<br>TIC-RT001-03 v216 | TTR001-03 v200<br>IOP001-03 v201<br>TIC-RT001-03 v211 | Tested with Matrix | |
| Auth | TTR001-04 v3.0.0<br>IOP001-04 v2.0.0<br>TIC-RT001-04 v219 | TTR001-04 v300<br>IOP001-04 v200<br>TIC-RT001-04 v214 | Tested with Matrix | |
| PD | TTR001-05 v3.0.0<br>IOP001-05 v2.0.0<br>TIC-RT001-05 v226 | TTR001-05 v200<br>IOP001-05 v200<br>TIC-RT001-05 v223 | TTR001-05 v2.0.0<br>IOP001-05 v2.0.0<br>TIC-RT001-05 v2.2.0 | |

| | | | | |
|---|---|---|---|---|
| **AL** | TTR001-09 v2.0.0<br>IOP001-09 v1.1.0<br>TIC-RT001-09 v118 | TTR001-09 v200<br>IOP001-09 v110<br>TIC-RT001-09 v113 | TTR001-09 v2.0.0<br>IOP001-09 v1.1.0<br>TIC-RT001-09 v1.1.1 | |
| **E2EE** | TTR001-10 v2.0.0<br>IOP001-10 v1.1.0<br>TIC-RT001-10 v117 | TTR001-10 v200<br>IOP001-10 v110<br>TIC-RT001-10 v112 | Not tested | |
| **AIE** | TTR001-11 v3.0.0<br>IOP001-11 v3.0.0<br>TIC-RT001-11 v3015 | TTR001-11 v200<br>IOP001-11 v200<br>TIC-RT001-11 v222 | Tested with Matrix | |
| **SI** | TTR001-12 v1.0.0<br>IOP001-12 v1.0.0<br>TIC-RT001-12 v119 | TTR001-12 v100<br>IOP001-12 v100<br>TIC-RT001-12 v113 | Not tested | |
| **ED** | TTR001-13 v2.0.0<br>IOP001-13 v1.0.0<br>TIC-RT001-13 v140 | Not tested | Not tested | |

## Feature compliance report

| Test Session | Teltronic, Zaragoza, March 2010 | Teltronic, Zaragoza, March 2008 | Teltronic, Zaragoza, November 2006 | |
|---|---|---|---|---|
| **Core** | | | | |
| Registration | PASSED Regression 1_pass_of_3 | PASSED Regression 1_pass_of_3 | | |
| ITSI attach | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| SwMI initiated location updating | PASSED Complete 1_pass_of_1 | PASSED Complete 1_pass_of_1 | | |
| LA timer based Periodic location updating | Not Supported | Not supported SwMI-nr | | |
| De-registration | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| Group Management | PASSED Regression 3_pass_of_8 | PASSED Regression 2_pass_of_7 | | |
| Single group attachment | PASSED Regression 1_pass_of_4 | PASSED Regression 1_pass_of_3 | | |
| Multiple group attachment | PASSED Regression 2_pass_of_4 | PASSED Regression 1_pass_of_4 | | |
| MS initiated group detachment | Not Supported | Not supported MS-nr | | |
| SwMI initiated group management | Not Supported | Not supported SwMI-nr | | |
| Group call | PASSED Regression 4_pass_of_11 | PASSED Regression 5_pass_of_11 | | |
| Normal group call | PASSED Regression 2_pass_of_4 | PASSED Regression 1_pass_of_4 | | |
| Late entry | Regression 0_pass_of_1 | PASSED Complete 1_pass_of_1 | | |

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|---|---|---|---|---|
| Priority Group scanning | PASSED Regression 1_pass_of_3 | PASSED Regression 2_pass_of_3 | | |
| Call setup modifications | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| Resource Queuing based on Call Priority | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | | |
| Broadcast Call | Not Supported | Note 1 | | |
| Limited coverage notification | Not Supported | Note 1 | | |
| Individual call | PASSED Regression 4_pass_of_11 | PASSED Regression 5_pass_of_11 | | |
| Simplex individual call | PASSED Regression 1_pass_of_4 | Regression 0_pass_of_4 | | |
| Duplex individual call | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | | |
| Call setup modifications | PASSED Complete 1_pass_of_1 | Regression 0_pass_of_1 | | |
| Resource Queuing based on Call Priority | PASSED Regression 1_pass_of_4 | PASSED Complete 4_pass_of_4 | | |
| Indication of imminent call disconnection | Not Supported | Not supported SwMI-nr MS-nr | | |
| Status messages | PASSED Regression 1_pass_of_4 | Regression 0_pass_of_4 | | |
| Individual addressed Status transfer | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| Group addressed Status transfer | PASSED Regression 1_pass_of_3 | Regression 0_pass_of_3 | | |
| Pre-emptive Priority Call | PASSED Regression 2_pass_of_7 | PASSED Regression 5_pass_of_7 | | |
| Pre-emption of Resources | Regression 0_pass_of_2 | Regression 0_pass_of_2 | | |
| Pre-emption of Busy Users | PASSED Regression 2_pass_of_5 | PASSED Complete 5_pass_of_5 | | |
| Emergency Call | PASSED Regression 1_pass_of_3 | PASSED Regression 1_pass_of_3 | | |

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|---|---|---|---|---|
| Pre-emption of Resources | Regression 0_pass_of_2 | Regression 0_pass_of_2 | | |
| Pre-emption of Busy Users | PASSED Complete 1_pass_of_1 | PASSED Complete 1_pass_of_1 | | |
| Call setup modifications | Not Supported | Not supported SwMI-nr MS-nr | | |
| Cell Re-selection | PASSED Regression 5_pass_of_15 | PASSED Regression 5_pass_of_15 | | |
| Undeclared | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| Unannounced | PASSED Regression 1_pass_of_3 | Regression 0_pass_of_3 | | |
| Announced - with Call Restoration | PASSED Regression 4_pass_of_11 | PASSED Regression 5_pass_of_11 | | |
| Announced - without Call Restoration | Not Supported | Not supported SwMI-nr MS-nr | | |
| PSTN interconnect | PASSED Regression 3_pass_of_5 | PASSED Regression 2_pass_of_5 | | |
| TETRA Originated Call | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_3 | | |
| PSTN Originated Call | Regression 0_pass_of_1 | PASSED Complete 1_pass_of_1 | | |
| DTMF over-dial | PASSED Complete 1_pass_of_1 | Regression 0_pass_of_1 | | |
| Emergency Telephone Calls | PASSED Complete 1_pass_of_1 | Note 1 | | |
| MS-ISDN Numbering | | | | |
| MS ISDN - Voice Call | Not Supported | Not supported SwMI-nr | | |
| MS-ISDN Status | Not Supported | Not supported SwMI-nr | | |
| In Call Signalling | PASSED Regression 4_pass_of_7 | PASSED Regression 2_pass_of_7 | | |
| Slow Signalling on Traffic Channel (SACCH) | PASSED Regression 3_pass_of_4 | PASSED Regression 1_pass_of_4 | | |

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|---|---|---|---|---|
| Fast Signalling on Traffic Channel (FACCH) | PASSED Regression 1_pass_of_3 | PASSED Regression 1_pass_of_3 | | |
| Subscriber Class Procedures | | | | |
| Cell Selection based on Subscriber Class | Not Supported | Not supported SwMI-nr MS-nr | | |
| Subscriber Class Delivery during Location Update | Not Supported | Not supported SwMI-nr MS-nr | | |
| Use of Preferred Subscriber Classes | Not Supported | Not supported SwMI-nr | | |
| Common Secondary Control Channels | PASSED Regression 3_pass_of_7 | PASSED Regression 1_pass_of_7 | | |
| One C-SCCH per cell | PASSED Regression 2_pass_of_4 | Regression 0_pass_of_4 | | |
| Two C-SCCH per cell | PASSED Regression 1_pass_of_3 | Regression 0_pass_of_3 | | |
| Three C-SCCH per cell | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | | |
| BS Fallback Operation | PASSED Regression 3_pass_of_9 | PASSED Complete 9_pass_of_9 | | |
| Switch to/from BS Fallback Operation | Not Supported | Not supported SwMI-nr | | |
| Roaming with BS Fallback Operation | Regression 0_pass_of_1 | PASSED Complete 1_pass_of_1 | | |
| Services with BS Fallback Operation | PASSED Regression 3_pass_of_8 | PASSED Complete 8_pass_of_8 | | |
| Energy Economy Mode | | | | |
| Energy Economy Mode Operation | Not Supported | Not supported SwMI-nr MS-nr | | |
| Transmit Inhibit | PASSED Regression 3_pass_of_10 | PASSED Complete 10_pass_of_10 | | |
| TXI Activation & De-Activation without Status message | PASSED Regression 1_pass_of_4 | PASSED Complete 4_pass_of_4 | | |
| TXI Activation & De-Activation with Status message | PASSED Regression 2_pass_of_4 | PASSED Complete 4_pass_of_4 | | |

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|---|---|---|---|---|
| Receipt of group addressed service during TXI | Regression 0_pass_of_2 | PASSED Complete 2_pass_of_2 | | |
| **Short Data Service (SDS)** | | | | |
| SDS Type 1, 2 or 3 | | | | |
| SDS Type 1 | Not Supported | Not supported MS-nr | MS-nr | |
| SDS Type 2 | Not Supported | Not supported MS-nr | MS-nr | |
| SDS Type 3 | Not Supported | Not supported MS-nr | MS-nr | |
| SDS-TL | PASSED Regression 3_pass_of_5 | PASSED Regression 2_pass_of_5 | **PASSED Complete** | |
| Individually Addressed | PASSED Complete 1_pass_of_1 | PASSED Complete 1_pass_of_1 | PASSED Complete | |
| Group Addressed | PASSED Regression 1_pass_of_2 | Regression 0_pass_of_2 | PASSED Complete | |
| Using MS-ISDN dialling | Not Supported | Not supported SwMI-nr | SwMI-nr | |
| Using UCS2 coding scheme | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | PASSED Complete | |
| Using 7-bit coding scheme | Not Supported | Note 1 | Note 1 | |
| Store and Forward | | | | |
| Individually Addressed | Not Supported | Note 1 | Note 1 | |
| Group Addressed | Not Supported | Note 1 | Note 1 | |
| **Dynamic Group Number Assignment (DGNA)** | | | | |
| Support for individually addressed DGNA | PASSED Complete 8_pass_of_8 | PASSED Regression 3_pass_of_7 | | |
| Support for individually addressed DGNA assignment without attachment | Not Supported | Not supported SwMI-nr | | |
| Support for individually addressed DGNA assignment with attachment as selected group | PASSED Complete 2_pass_of_2 | Regression 0_pass_of_1 | | |
| Support for individually addressed DGNA assignment with attachment as scanned group | PASSED Complete 4_pass_of_4 | PASSED Regression 2_pass_of_4 | | |

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|---|---|---|---|---|
| Support for individually addressed DGNA assignment with rejected attachment | Not Supported | Not supported MS-nr | | |
| Support for individually addressed assignment for pre-programmed group | PASSED Complete 3_pass_of_3 | PASSED Regression 2_pass_of_3 | | |
| Support for group addressed DGNA | PASSED Complete 5_pass_of_5 | | | |
| Support for group addressed DGNA assignment | PASSED Complete 2_pass_of_2 | Not supported SwMI-nr | | |
| Management of 'group assignment lifetime' | PASSED Complete 2_pass_of_2 | Not supported SwMI-nr | | |
| Support for group addressed DGNA deassignment | PASSED Complete 1_pass_of_1 | Not supported SwMI-nr | | |
| Tolerance of unsupported DGNA functions | | | | |
| MS tolerance of unsupported individual addressed DGNA signalling | Not Supported | Not supported MS-nr | | |
| MS tolerance of unsupported group addressed DGNA signalling | Not Supported | Not supported SwMI-nr MS-nr | | |
| **Authentication** | | | | |
| SwMI Initiated (non-mutual) Authentication | PASSED Regression 1_pass_of_3 | PASSED Regression 1_pass_of_3 | | |
| Attach with authentication | Regression 0_pass_of_1 | PASSED Complete 1_pass_of_1 | | |
| Roaming with authentication | PASSED Complete 1_pass_of_1 | Regression 0_pass_of_1 | | |
| SwMI rejects MS during authentication | Regression 0_pass_of_1 | Regression 0_pass_of_1 | | |
| MS rejects SwMI during authentication | Not Supported | Not supported SwMI-nr | | |
| SwMI Initiated Authentication made Mutual by MS | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | | |
| Attach with authentication | Regression 0_pass_of_1 | Regression 0_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 SwMI-nr MS-nr | | |

| TETRA Packet Data | | | | |
|---|---|---|---|---|
| Context Management | PASSED Regression 3_pass_of_9 | PASSED Regression 1_pass_of_9 | **PASSED Complete** | |
| Context Activation | PASSED Regression 2_pass_of_7 | PASSED Regression 1_pass_of_7 | PASSED Complete | |
| User authentication | PASSED Regression 1_pass_of_2 | Regression 0_pass_of_2 | PASSED Complete | |
| Single Slot Packet Data | PASSED Regression 3_pass_of_9 | PASSED Regression 4_pass_of_9 | **PASSED Complete** | |
| Data Transfer | PASSED Regression 1_pass_of_6 | PASSED Regression 1_pass_of_6 | PASSED Complete | |
| Cell re-selection | PASSED Regression 2_pass_of_3 | PASSED Complete 3_pass_of_3 | PASSED Complete | |
| Multi Slot Packet Data | PASSED Complete 2_pass_of_2 | PASSED Complete 2_pass_of_2 | | |
| Data Transfer | PASSED Complete 2_pass_of_2 | PASSED Complete 2_pass_of_2 | SwMI-nr MS-nr | |
| **TETRA Ambience Listening (SS-AL)** | | | | |
| Ambience Listening | PASSED Regression 2_pass_of_5 | PASSED Regression 2_pass_of_5 | **PASSED Complete** | |
| SS-AL Call Setup | PASSED Regression 1_pass_of_2 | Regression 0_pass_of_2 | PASSED Complete | |
| MS initiated SS-AL disconnection | PASSED Regression 1_pass_of_3 | PASSED Regression 2_pass_of_3 | PASSED Complete | |
| No Indication to affected user | PASSED Regression 2_pass_of_5 | PASSED Regression 2_pass_of_5 | PASSED Complete | |
| Interaction with Transmit Inhibit | PASSED Complete 2_pass_of_2 | | | |
| AL can override TxI | PASSED Complete 1_pass_of_1 | Note 1 | | |
| AL cannot override TxI | PASSED Complete 1_pass_of_1 | Note 1 | | |

| End to End Encryption | | | | |
|---|---|---|---|---|
| E2EE Voice Call | PASSED Regression 3_pass_of_6 | PASSED Complete 6_pass_of_6 | | |
| Individual (P2P) call | PASSED Regression 2_pass_of_4 | PASSED Complete 4_pass_of_4 | | |
| Group (P2MP) call | PASSED Regression 1_pass_of_2 | PASSED Complete 2_pass_of_2 | | |
| Clear Voice Override (CVO) | Not Supported | Not supported SwMI-nr MS-nr | | |
| **Air Interface Encryption** | | | | |
| Security Class 2 Air Interface Encryption | | | | |
| Location Updating and AI Signalling Protection | Not Supported | Not supported SwMI-nr MS-nr | | |
| TM-SCK provisioning during location updating | Not Supported | Note 1 | | |
| Communications between parties using encryption | Not Supported | Not supported SwMI-nr | | |
| Communications between clear and encrypted parties | Not Supported | Not supported SwMI-nr | | |
| Communications between encrypted parties on a channel designated to operate in clear | Not Supported | Not supported SwMI-nr | | |
| OTAR and Change of TM-SCK | Not Supported | Note 1 | | |
| Security Class 3 Air Interface Encryption | PASSED Regression 11_pass_of_17 | Regression Time_Limited 6_pass_of_14 | | |
| Location Updating and AI Signalling Protection | PASSED Regression 7_pass_of_9 | Regression Time_Limited 1_pass_of_6 | | |
| DCK Forwarding at MS request | PASSED Regression 5_pass_of_6 | Regression Time_Limited 1_pass_of_4 | | |
| DCK Forwarding by SwMI (without MS request) | Not Supported | Not supported SwMI-nr MS-nr | | |
| DCK Retrieval | Not Supported | Not supported SwMI-nr MS-nr | | |
| CCK provisioning during location updating | PASSED Regression 4_pass_of_6 | PASSED Regression 1_pass_of_4 | | |

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|---|---|---|---|---|
| Communications between parties using encryption | PASSED Regression 1_pass_of_2 | PASSED Regression 1_pass_of_2 | | |
| Communications between clear and encrypted parties | PASSED Regression 1_pass_of_2 | Regression 0_pass_of_2 | | |
| Communications between encrypted parties on a channel designated to operate in clear | Not Supported | Not supported SwMI-nr | | |
| OTAR and Change of CCK | PASSED Regression 2_pass_of_4 | Note 1 | | |
| Security Class 3G Air Interface Encryption | | | | |
| GCK Key Association setting | Not Supported | Note 1 | | |
| Communications between parties using encryption | Not Supported | Note 1 | | |
| Communications between clear and encrypted parties | Not Supported | Note 1 | | |
| OTAR and Change of GCK | Not Supported | Note 1 | | |
| Change of CMG and GSKO | | | | |
| OTAR and change of CMG and GSKO | Not Supported | Note 1 | | |
| Key Status demand | | | | |
| SCK Key Status demand | Not Supported | Note 1 | | |
| GCK Key Status demand | Not Supported | Note 1 | | |
| GSKO Key Status demand | Not Supported | Note 1 | | |
| Change of Security Class for Fallback operation | | | | |
| Seamless change to Security Class 2 for BS Fallback operation | Not Supported | Not supported SwMI-nr | | |
| Non-seamless change to Security Class 2 for BS Fallback operation | Not Supported | Not supported SwMI-nr | | |
| Provisioning of TM-SCK for fallback to Security Class 2 operation | Not Supported | Note 1 | | |
| Change to Security Class 1 for BS Fallback operation | Not Supported | Not supported SwMI-nr | | |
| Change of Security Class (other than for Fallback operation) | | | | |
| Change between Security Class 3 and Security Class 3G | Not Supported | Note 1 | | |
| Change between Security Class 2 and Security Class 3 | Not Supported | Note 1 | | |

| | | | | |
|---|---|---|---|---|
| Change from Security Class 3G to Security Class 2 | Not Supported | Note 1 | | |
| Key Management for Secure Direct Mode Operation | | | | |
| OTAR and change of DM-SCK | Not Supported | Note 1 | | |
| **Service Interaction** | | | | |
| MS initiated Service Interaction | PASSED Regression 3_pass_of_5 | PASSED Complete 5_pass_of_5 | | |
| MS initiated Circuit Mode Call during another Circuit Mode Call | PASSED Complete 3_pass_of_3 | PASSED Complete 3_pass_of_3 | | |
| 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 MS-nr | | |
| SwMI initiated Service Interaction | PASSED Regression 3_pass_of_10 | PASSED Complete 23_pass_of_23 | | |
| SwMI initiated Circuit Mode Call during another Circuit Mode Call | PASSED Regression 2_pass_of_8 | PASSED Complete 21_pass_of_21 | | |
| SwMI initiated Circuit Mode Call during Packet Mode Transfer | PASSED Regression 1_pass_of_2 | PASSED Complete 2_pass_of_2 | | |
| SwMI initiated Packet Mode Transfer during Circuit Mode Call | Not Supported | Not supported MS-nr | | |
| **Enable/Disable** | | | | |
| Enable and temporary disable of an MS | PASSED Complete 9_pass_of_9 | | | |
| Enable and temporary disable of an MS without authentication | PASSED Complete 2_pass_of_2 | | | |
| Enable and temporary disable of an MS with authentication | PASSED Complete 2_pass_of_2 | | | |
| Registration of a temporary disabled MS | PASSED Complete 2_pass_of_2 | | | |
| Rejection of applicable invalid enable/disable requests | PASSED Complete 3_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 | Not Supported | | | |

| | | | | |
|---|---|---|---|---|
| Permanent disable of an MS | PASSED Complete 2_pass_of_2 | | | |
| Permanent disable of an MS with authentication | PASSED Complete 1_pass_of_1 | | | |
| Permanently Disabled MS cannot send air interface signalling | PASSED Complete 1_pass_of_1 | | | |

**Note 1 -** Details of the certified items have changed.