

## TETRA Interoperability Certificate

### Motorola, Dimetra IP R7.1, SwMI – Motorola, MTP3100, Terminal

Krakow, December 2013

|                                      |                 |                                          |         |
|--------------------------------------|-----------------|------------------------------------------|---------|
| Latest Certified SwMI<br>SW Release: | 7.1             | Latest Certified Terminal<br>SW Release: | MR10.7  |
| Latest Certified SwMI<br>HW Release: | Dimetra IP R7.1 | Latest Certified Terminal<br>HW Release: | PT912OF |

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola, Dimetra IP R7.1, SwMI and the Motorola, MTP3100, 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 Motorola and Motorola on December 2013. 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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v 1

## Certified features

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

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

| <b>Tetra Association TTR001-13:ED</b>        |           |
|----------------------------------------------|-----------|
| <b>Enable and temporary disable of an MS</b> | Certified |
| <b>Permanent disable of an MS</b>            | Certified |

## Feature Compliance Overview

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

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

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

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

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

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

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

Certification Process Description" document.

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

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

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

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

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

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

The feature results are shown in the tables below.

## Information on equipment under test and document references

|                                         |                                                           |  |  |  |
|-----------------------------------------|-----------------------------------------------------------|--|--|--|
| Test Session Date/Place                 | Motorola<br>Krakow<br>December 2013                       |  |  |  |
| SwMI Type                               | Dimetra IP R7.1                                           |  |  |  |
| SwMI HW Release                         | Dimetra IP R7.1                                           |  |  |  |
| SwMI SW Release                         | 7.1                                                       |  |  |  |
| Terminal Type                           | MTP3100                                                   |  |  |  |
| Terminal HW Release                     | PT912OF                                                   |  |  |  |
| Terminal SW Release                     | MR10.7                                                    |  |  |  |
| TIP Specs and TIP Compliance Test Plans |                                                           |  |  |  |
| Core                                    | TTR001-01 v6.0.0<br>IOP001-01 v3.0.0<br>TIC-RT001-01 v260 |  |  |  |
| SDS                                     | TTR001-02 v2.0.1<br>IOP001-02 v2.0.0<br>TIC-RT001-02 v213 |  |  |  |

|      |                                                           |  |  |  |
|------|-----------------------------------------------------------|--|--|--|
| DGNA | TTR001-03 v2.0.0<br>IOP001-03 v2.0.1<br>TIC-RT001-03 v221 |  |  |  |
| Auth | TTR001-04 v3.0.0<br>IOP001-04 v2.0.0<br>TIC-RT001-04 v223 |  |  |  |
| PD   | TTR001-05 v3.0.0<br>IOP001-05 v3.0.5<br>TIC-RT001-05 v303 |  |  |  |
| AL   | TTR001-09 v2.0.0<br>IOP001-09 v1.1.0<br>TIC-RT001-09 v122 |  |  |  |
| AIE  | TTR001-11 v3.0.3<br>IOP001-11 v3.0.2<br>TIC-RT001-11 v323 |  |  |  |
| SI   | TTR001-12 v1.0.0<br>IOP001-12 v1.0.0<br>TIC-RT001-12 v127 |  |  |  |
| ED   | TTR001-13 v2.0.0<br>IOP001-13 v1.0.0<br>TIC-RT001-13 v146 |  |  |  |



# Feature compliance report

| Test Session                              | Motorola<br>Krakow<br>December 2013 |  |  |  |
|-------------------------------------------|-------------------------------------|--|--|--|
| Core                                      |                                     |  |  |  |
| Registration                              | Spot 0_pass_of_3                    |  |  |  |
| ITSI attach                               | Spot 0_pass_of_1                    |  |  |  |
| SwMI initiated location updating          | Spot 0_pass_of_1                    |  |  |  |
| LA timer based Periodic location updating | Not Supported                       |  |  |  |
| De-registration                           | Spot 0_pass_of_1                    |  |  |  |
| Group Management                          | Spot 0_pass_of_9                    |  |  |  |
| Single group attachment                   | Spot 0_pass_of_4                    |  |  |  |
| Multiple group attachment                 | Spot 0_pass_of_3                    |  |  |  |
| MS initiated group detachment             | Spot 0_pass_of_2                    |  |  |  |
| SwMI initiated group management           | Not Supported                       |  |  |  |
| Group call                                | Spot 0_pass_of_9                    |  |  |  |
| Normal group call                         | Spot 0_pass_of_3                    |  |  |  |
| 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                            | Not Supported                       |  |  |  |
| Limited coverage notification             | Not Supported                       |  |  |  |

|                                           |                             |  |  |  |
|-------------------------------------------|-----------------------------|--|--|--|
| Individual call                           | PASSED Spot 1_pass_of_7     |  |  |  |
| Simplex individual call                   | Spot 0_pass_of_3            |  |  |  |
| Duplex individual call                    | PASSED Spot 1_pass_of_2     |  |  |  |
| Call setup modifications                  | Not Supported               |  |  |  |
| Resource Queuing based on Call Priority   | 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_1            |  |  |  |
| Pre-emption of Resources                  | Spot 0_pass_of_1            |  |  |  |
| Pre-emption of Busy Users                 | Not Supported               |  |  |  |
| Emergency Call                            | PASSED Spot 1_pass_of_2     |  |  |  |
| Pre-emption of Resources                  | Spot 0_pass_of_1            |  |  |  |
| Pre-emption of Busy Users                 | PASSED Complete 1_pass_of_1 |  |  |  |
| Call setup modifications                  | Not Supported               |  |  |  |
| Call disconnection by non-call owner      | Not Supported               |  |  |  |
| Cell Re-selection                         | PASSED Spot 1_pass_of_16    |  |  |  |
| Undeclared                                | Spot 0_pass_of_1            |  |  |  |
| Unannounced                               | PASSED Spot 1_pass_of_7     |  |  |  |
| Announced - with Call Restoration         | PASSED Spot 0_pass_of_8     |  |  |  |
| Announced - without Call Restoration      | Not Supported               |  |  |  |
| Expedited                                 | Not Supported               |  |  |  |

|                                                  |                             |  |  |  |
|--------------------------------------------------|-----------------------------|--|--|--|
| PSTN interconnect                                | PASSED Spot 2_pass_of_4     |  |  |  |
| TETRA Originated Call                            | PASSED Spot 1_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     |  |  |  |
| Fast Signalling on Traffic Channel (FACCH)       | Spot 0_pass_of_1            |  |  |  |
| Subscriber Class Procedures                      | Spot Incomplete 0_pass_of_5 |  |  |  |
| Cell Selection based on Subscriber Class         | Spot Incomplete 0_pass_of_2 |  |  |  |
| Subscriber Class Delivery during Location Update | Not Supported               |  |  |  |
| Use of Preferred Subscriber Classes              | Spot Incomplete 0_pass_of_3 |  |  |  |
| Common Secondary Control Channels                | PASSED Spot 3_pass_of_7     |  |  |  |
| One C-SCCH per cell                              | PASSED Spot 2_pass_of_4     |  |  |  |
| 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_9     |  |  |  |
| Switch to/from BS Fallback Operation             | PASSED Spot 1_pass_of_2     |  |  |  |
| Roaming with BS Fallback Operation               | Spot 0_pass_of_2            |  |  |  |
| Services with BS Fallback Operation              | PASSED Spot 2_pass_of_5     |  |  |  |

|                                                       |                             |  |  |  |
|-------------------------------------------------------|-----------------------------|--|--|--|
| Energy Economy Mode                                   | PASSED Spot 2_pass_of_3     |  |  |  |
| Energy Economy Mode Operation                         | PASSED Spot 2_pass_of_3     |  |  |  |
| Transmit Inhibit                                      | PASSED Spot 6_pass_of_8     |  |  |  |
| TXI Activation & De-Activation without Status message | PASSED Spot 3_pass_of_4     |  |  |  |
| TXI Activation & De-Activation with Status message    | PASSED Spot 2_pass_of_3     |  |  |  |
| Receipt of group addressed service during TXI         | PASSED Complete 1_pass_of_1 |  |  |  |
| Mixed band operation                                  | Spot 0_pass_of_4            |  |  |  |
| Mixed band operation, inter-cell                      | Spot 0_pass_of_4            |  |  |  |
| Mixed band operation, intra-cell                      | Spot 0_pass_of_3            |  |  |  |
| Mixed band operation, Full                            | Spot 0_pass_of_3            |  |  |  |
| <b>Short Data Service (SDS)</b>                       |                             |  |  |  |
| SDS Type 1, 2 or 3                                    |                             |  |  |  |
| SDS Type 1                                            | Not Supported               |  |  |  |
| SDS Type 2                                            | Not Supported               |  |  |  |
| SDS Type 3                                            | Not Supported               |  |  |  |
| SDS-TL                                                | PASSED Spot 2_pass_of_8     |  |  |  |
| Individually Addressed                                | Spot 0_pass_of_2            |  |  |  |
| Group Addressed                                       | PASSED Spot 1_pass_of_2     |  |  |  |
| Using MS-ISDN dialling                                | Not Supported               |  |  |  |
| Using UCS2 coding scheme                              | PASSED Spot 1_pass_of_2     |  |  |  |
| Using 7-bit coding scheme                             | Spot 0_pass_of_1            |  |  |  |
| Using 8-bit Latin 1 coding scheme                     | Spot 0_pass_of_2            |  |  |  |
| Using 8-bit Latin 5 coding scheme                     | Not Supported               |  |  |  |
| Using 8-bit Latin 9 coding scheme                     | Complete                    |  |  |  |

|                                                                                               |                                |  |  |  |
|-----------------------------------------------------------------------------------------------|--------------------------------|--|--|--|
| Store and Forward                                                                             | PASSED Spot<br>1_pass_of_3     |  |  |  |
| Individually Addressed                                                                        | PASSED Spot<br>1_pass_of_3     |  |  |  |
| Group Addressed                                                                               | Not Supported                  |  |  |  |
| <b>Dynamic Group Number Assignment (DGNA)</b>                                                 |                                |  |  |  |
| Support for individually<br>addressed DGNA                                                    | PASSED Spot<br>2_pass_of_6     |  |  |  |
| Support for individually<br>addressed DGNA assignment<br>without attachment                   | PASSED Spot<br>1_pass_of_4     |  |  |  |
| Support for individually<br>addressed DGNA assignment<br>with attachment as selected<br>group | Not Supported                  |  |  |  |
| Support for individually<br>addressed DGNA assignment<br>with attachment as scanned<br>group  | Not Supported                  |  |  |  |
| Support for individually<br>addressed DGNA assignment<br>with rejected attachment             | Not Supported                  |  |  |  |
| Support for individually<br>addressed assignment for pre-<br>programmed group                 | PASSED Spot<br>1_pass_of_4     |  |  |  |
| Support for group addressed<br>DGNA                                                           | Spot Incomplete<br>1_pass_of_6 |  |  |  |
| Support for group addressed<br>DGNA assignment                                                | Spot Incomplete<br>0_pass_of_3 |  |  |  |
| Management of 'group<br>assignment lifetime'                                                  | Spot Incomplete<br>0_pass_of_2 |  |  |  |
| Support for group addressed<br>DGNA deassignment                                              | PASSED Complete<br>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               |  |  |  |
| <b>Authentication</b>                                            |                             |  |  |  |
| 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            |  |  |  |
| 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               |  |  |  |
| <b>TETRA Packet Data</b>                                         |                             |  |  |  |
| Context Management                                               | PASSED Spot 1_pass_of_11    |  |  |  |
| Context Activation                                               | PASSED Spot 1_pass_of_7     |  |  |  |
| User authentication                                              | Spot 0_pass_of_4            |  |  |  |

|                                         |                             |  |  |  |
|-----------------------------------------|-----------------------------|--|--|--|
| Single Slot Packet Data                 | PASSED Spot<br>2_pass_of_10 |  |  |  |
| Data Transfer                           | PASSED Spot<br>1_pass_of_7  |  |  |  |
| Cell re-selection                       | PASSED Spot<br>1_pass_of_3  |  |  |  |
| Multi Slot Packet Data                  | PASSED Spot<br>2_pass_of_4  |  |  |  |
| Data Transfer                           | PASSED Spot<br>2_pass_of_4  |  |  |  |
| <b>TEDS</b>                             |                             |  |  |  |
| TEDS with Context Activation            | Not Supported               |  |  |  |
| TEDS Data Transmission                  | Not Supported               |  |  |  |
| TEDS Cell Reselection                   | Not Supported               |  |  |  |
| Mixed band operation                    | PASSED Spot<br>1_pass_of_2  |  |  |  |
| Mixed band operation, inter-cell        | PASSED Spot<br>1_pass_of_2  |  |  |  |
| Mixed band operation, intra-cell        | PASSED Spot<br>1_pass_of_2  |  |  |  |
| Mixed band operation, Full              | PASSED Spot<br>1_pass_of_2  |  |  |  |
| <b>TETRA Ambience Listening (SS-AL)</b> |                             |  |  |  |
| Ambience Listening                      | PASSED Spot<br>1_pass_of_5  |  |  |  |
| SS-AL Call Setup                        | PASSED Spot<br>1_pass_of_2  |  |  |  |
| MS initiated SS-AL<br>disconnection     | Spot 0_pass_of_3            |  |  |  |
| No Indication to affected user          | PASSED Spot<br>1_pass_of_5  |  |  |  |

|                                                                                      |                                 |  |  |  |
|--------------------------------------------------------------------------------------|---------------------------------|--|--|--|
| Interaction with Transmit Inhibit                                                    | PASSED Complete<br>1_pass_of_1  |  |  |  |
| AL can override TxI                                                                  | Not Supported                   |  |  |  |
| AL cannot override TxI                                                               | PASSED Complete<br>1_pass_of_1  |  |  |  |
| <b>Air Interface Encryption</b>                                                      |                                 |  |  |  |
| Security Class 2 Air Interface Encryption                                            | FAILED Spot<br>7_pass_of_20     |  |  |  |
| Location Updating and AI Signalling Protection                                       | PASSED Spot<br>3_pass_of_7      |  |  |  |
| TM-SCK provisioning during location updating                                         | Spot 0_pass_of_2                |  |  |  |
| Communications between parties using encryption                                      | Spot 0_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<br>1_pass_of_2      |  |  |  |
| OTAR and Change of TM-SCK                                                            | Spot 0_pass_of_2                |  |  |  |
| Change of TM-SCK                                                                     | FAILED Spot<br>1_pass_of_4      |  |  |  |
| Packet Data with Class 2 Air Interface Encryption                                    | PASSED Complete<br>2_pass_of_2  |  |  |  |
| Security Class 3 Air Interface Encryption                                            | Spot Incomplete<br>4_pass_of_21 |  |  |  |
| Location Updating and AI Signalling Protection                                       | Spot Incomplete<br>1_pass_of_9  |  |  |  |
| DCK Forwarding at MS request                                                         | Not Supported                   |  |  |  |
| DCK Forwarding by SwMI (without MS request)                                          | Spot 0_pass_of_1                |  |  |  |
| DCK Retrieval                                                                        | PASSED Spot<br>1_pass_of_4      |  |  |  |



|                                                                                      |                                |  |  |  |
|--------------------------------------------------------------------------------------|--------------------------------|--|--|--|
| CCK provisioning during location updating                                            | Spot Incomplete<br>0_pass_of_4 |  |  |  |
| Communications between parties using encryption                                      | PASSED Spot<br>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<br>1_pass_of_2     |  |  |  |
| OTAR of CCK                                                                          | Spot 0_pass_of_2               |  |  |  |
| Change of CCK                                                                        | Spot 0_pass_of_4               |  |  |  |
| Packet Data with Class 3 Air Interface Encryption                                    | PASSED Spot<br>1_pass_of_2     |  |  |  |
| Security Class 3G Air Interface Encryption                                           | Spot Incomplete<br>1_pass_of_9 |  |  |  |
| GCK Key Association setting                                                          | PASSED Spot<br>1_pass_of_3     |  |  |  |
| Communications between parties using encryption                                      | Spot 0_pass_of_2               |  |  |  |
| Communications between clear and encrypted parties                                   | Spot 0_pass_of_1               |  |  |  |
| OTAR of GCK                                                                          | Spot 0_pass_of_2               |  |  |  |
| Change of GCK                                                                        | Spot Incomplete<br>0_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                                                                    | PASSED Spot<br>2_pass_of_4     |  |  |  |
| SCK Key Status demand                                                                | PASSED Complete<br>2_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                   | Spot 0_pass_of_12       |  |  |  |
| Seamless change to Security Class 2 for BS Fallback operation     | Spot 0_pass_of_10       |  |  |  |
| Non-seamless change to Security Class 2 for BS Fallback operation | Not Supported           |  |  |  |
| Provisioning of TM-SCK for fallback to Security Class 2 operation | Spot 0_pass_of_2        |  |  |  |
| Change to Security Class 1 for BS Fallback operation              | Not Supported           |  |  |  |
| Change of Security Class (other than for Fallback operation)      | PASSED Spot 1_pass_of_5 |  |  |  |
| Change between Security Class 3 and Security Class 3G             | 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                   | PASSED Spot 1_pass_of_3 |  |  |  |
| OTAR of DM-SCK                                                    | PASSED Spot 1_pass_of_3 |  |  |  |
| Change of DM-SCK                                                  | Spot 0_pass_of_2        |  |  |  |
| <b>Service Interaction</b>                                        |                         |  |  |  |
| MS initiated Service Interaction                                  | Spot 0_pass_of_3        |  |  |  |
| MS initiated Circuit Mode Call during another Circuit Mode Call   | Spot 0_pass_of_1        |  |  |  |

|                                                                                         |                         |  |  |  |
|-----------------------------------------------------------------------------------------|-------------------------|--|--|--|
| MS initiated Circuit Mode Call during Packet Mode Transfer                              | Spot 0_pass_of_2        |  |  |  |
| MS initiated Packet Mode Transfer during Circuit Mode Call                              | Not Supported           |  |  |  |
| SwMI initiated Service Interaction                                                      | PASSED Spot 2_pass_of_6 |  |  |  |
| SwMI initiated Circuit Mode Call during another Circuit Mode Call                       | PASSED Spot 2_pass_of_4 |  |  |  |
| 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           |  |  |  |
| <b>Enable Disable</b>                                                                   |                         |  |  |  |
| Enable and temporary disable of an MS                                                   | PASSED Spot 1_pass_of_8 |  |  |  |
| Enable and temporary disable of an MS without authentication                            | Spot 0_pass_of_2        |  |  |  |
| Enable and temporary disable of an MS with authentication                               | Not Supported           |  |  |  |
| Registration of a temporary disabled MS                                                 | PASSED Spot 1_pass_of_2 |  |  |  |
| Rejection of applicable invalid enable/disable requests                                 | Spot 0_pass_of_3        |  |  |  |
| Removable SIMs do not affect the subscriber or equipment that has been enabled/disabled | Not Supported           |  |  |  |

|                                                              |                             |  |  |  |
|--------------------------------------------------------------|-----------------------------|--|--|--|
| Disabling of an MS during a call or while on the PDCH        | Spot 0_pass_of_1            |  |  |  |
| Permanent disable of an MS                                   | PASSED Spot 1_pass_of_2     |  |  |  |
| Permanent disable of an MS with authentication               | PASSED Complete 1_pass_of_1 |  |  |  |
| Permanently Disabled MS cannot send air interface signalling | Spot 0_pass_of_1            |  |  |  |