

# TETRA Interoperability Certificate

## Airbus, Tetra System Rel5.5, SwMI – Sepura, SRG3900, Terminal

Berlin, June 2014

|  |              |  |                     |
|--|--------------|--|---------------------|
| <b>Latest Certified SwMI<br/>SW Release:</b> | W15 15.2-0   | <b>Latest Certified Terminal<br/>SW Release:</b> | 1711 013 03577      |
| <b>Latest Certified SwMI<br/>HW Release:</b> | M98F (DXTip) | <b>Latest Certified Terminal<br/>HW Release:</b> | MSUTW201T2C0G000000 |

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Airbus, Tetra System Rel5.5, SwMI and the Sepura, SRG3900, 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.

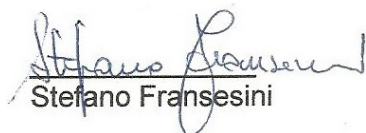
The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

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).

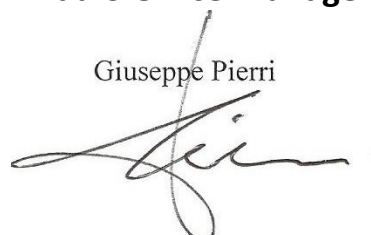
A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a fully witnessed single test session between Airbus and Sepura on June 2014. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

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**Date of issue**

**1 July 2014**

**v2**

## Certified features

| <b>Tetra Association TTR001-21: Callout</b>       |           |
|---|-----------|
| <b>Full Callout</b>                               | -         |
| <b>Simple Callout</b>                             | Certified |
| <b>Interaction with other services and events</b> | Partial   |
| <b>Callout Test and Callout Availability</b>      | Certified |
| <b>Callout Text and Callout Pre-Coded Status</b>  | Certified |
| <b>Storage of Callout Information</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                           | Airbus<br>Berlin<br>June 2014                             |  |  |  |
| SwMI Type   | Airbus TETRA System Rel5.5                                |  |  |  |
| SwMI HW Release                                   | M98F (DXTip)  |  |  |  |
| SwMI SW Release                                   | W15 15.2-0  |  |  |  |
| Terminal Type                                     | SRG3900   |  |  |  |
| Terminal HW Release                               | MSUTWZ01T2C0G000000                                       |  |  |  |
| Terminal SW Release                               | 1711 013 03577  |  |  |  |
| SwMI Paladine Callout Application SW release      | TECC-DXT 1.1.1  |  |  |  |
| SwMI Testbench 5.5 Callout Application SW release | 6.2.4.0   |  |  |  |
| TIP Specs and TIP Compliance Test Plans           |   |  |  |  |
| Callout   | TTR001-21 v1.0.0<br>IOP001-21 v1.0.0<br>TIC-RT001-21 v104 |  |  |  |

## Feature compliance report

| Test Session  | Airbus<br>Berlin<br>June 2014 |  |  |  |
|---|-------------------------------|--|--|--|
| Callout   |                               |  |  |  |
| Full Callout  |                               |  |  |  |
| Individually Addressed Full Callout with request for Terminal Receipt message and with request for User Receipt message | Not Supported                 |  |  |  |
| Group Addressed Full Callout without request for Terminal Receipt message and without request for User Receipt message  | Not Supported                 |  |  |  |
| Using current selected group during Full Callout  | Not Supported                 |  |  |  |
| Full Callout with immediate change to Callout Group   | Not Supported                 |  |  |  |
| Full Callout with change to Callout Group on non-rejecting user response  | Not Supported                 |  |  |  |
| Full Callout with rejecting User Receipt message  | Not Supported                 |  |  |  |
| Full Callout with timeout for User Receipt message  | Not Supported                 |  |  |  |
| Callout Incident Information messages   | Not Supported                 |  |  |  |
| Group Call to Callout Group   | Not Supported                 |  |  |  |

|   |                                  |  |  |  |
|---|----------------------------------|--|--|--|
| End of Full Callout   | Not Supported                    |  |  |  |
| Simple Callout  | PASSED Complete<br>6_pass_of_6   |  |  |  |
| Individually Addressed Callout with request for Terminal Receipt message and with request for User Receipt message    | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Individually Addressed Callout with request for Terminal Receipt message and without request for User Receipt message | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Group Addressed Callout without request for Terminal Receipt message and without request for User Receipt message     | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Group Addressed Callout without request for Terminal Receipt message and with request for User Receipt message        | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Simple Callout with rejecting User Receipt message  | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Simple Callout with timeout for User Receipt message  | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Interaction with other services and events  | Incomplete<br>24_pass_of_28      |  |  |  |
| Interaction with previous Callout   | PASSED Complete<br>1_pass_of_1   |  |  |  |
| Interaction with emergency call   | PASSED Complete<br>3_pass_of_3   |  |  |  |
| Interaction with non-emergency call   | PASSED Complete<br>11_pass_of_11 |  |  |  |

|  |                                |  |  |  |
|--|--------------------------------|--|--|--|
| Interaction with data and status                         | Incomplete<br>8_pass_of_13     |  |  |  |
| Interaction with local services                          | Not Supported                  |  |  |  |
| Manual exit  | PASSED Complete<br>1_pass_of_1 |  |  |  |
| Callout Test and Callout Availability                    | PASSED Complete<br>3_pass_of_3 |  |  |  |
| Callout Test   | PASSED Complete<br>2_pass_of_2 |  |  |  |
| Callout Availability                                     | PASSED Complete<br>1_pass_of_1 |  |  |  |
| Callout Text and Callout Pre-Coded Status                | PASSED Complete<br>9_pass_of_9 |  |  |  |
| Callout Text   | PASSED Complete<br>3_pass_of_3 |  |  |  |
| Concatenated Callout Text                                | Not Supported                  |  |  |  |
| Callout Pre-Coded Status                                 | PASSED Complete<br>6_pass_of_6 |  |  |  |
| Storage of Callout Information                           | PASSED Complete<br>2_pass_of_2 |  |  |  |
| Viewing Callout information from previous Callout(s)     | PASSED Complete<br>1_pass_of_1 |  |  |  |
| Deletion of Callout information from previous Callout(s) | PASSED Complete<br>1_pass_of_1 |  |  |  |

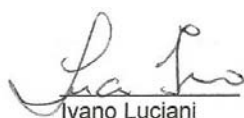


## Annex A

### List of Revisions of the Certificate

| Date         | Ver. | Modification  |
|--------------|------|---|
| 30 June 2014 | 1    | First published version   |
| 1 July 2014  | 2    | updating:<br>- Added the SW release of Callout application on "Information on equipment under test and document references" table |

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