TETRA ASSOCIATION

ISCTI

# TETRA Interoperability Certificate

## Selex, BSNode, SwMI –
## Selex, PUMA T3 Ex, Terminal

**Florence, November 2010**

| | | | |
|---|---|---|---|
| **Latest Certified SwMI SW Release:** | v6.0 | **Latest Certified Terminal SW Release:** | v6.0 |
| **Latest Certified SwMI HW Release:** | 775-0867/01.01-BSN-400L/4 Eth | **Latest Certified Terminal HW Release:** | 774-0513/01 |

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Selex, BSNode, SwMI and the Selex, PUMA T3 Ex, 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).

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 this Certificate.

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**Date of issue:**
**16 March 2011**
**v 01**

# 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** | Certified |
| **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** | Certified |
| **SDS-TL** | Certified |
| **Store and Forward** | - |
| **Tetra Association TTR001-03:DGNA** | |
| **Support for individually addressed DGNA** | Certified |
| **Support for group addressed DGNA** | - |
| **Tolerance of unsupported DGNA functions** | - |

| Tetra Association TTR001-04: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 | - |
| **Tetra Association TTR001-10:E2EE** | |
| E2EE Voice Call | Certified |
| **Tetra Association TTR001-11:AIE** | |
| Security Class 2 Air Interface Encryption | Certified |
| 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 | Certified |
| 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 |

| Tetra Association TTR001-20:CF | |
|---|---|
| **Call Forwarding Unconditional** | Certified |
| **Call Forwarding Conditional** | Certified |
| **Call Forwarding Information Displayed** | 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 (notex)** | 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 |
|---|---|
| **Not supported** | The SwMI and/or MS do not support the minimum features required to verify these items |

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

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

This Certificate and Certificates from previous test sessions are available on the TETRA 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** | **Selex, Florence, November 2010** | | | |
| **SwMI Type** | Bs-Node (SSN) | | | |
| **SwMI HW Release** | 775-0867/01.01-BSN-400L/4 Eth | | | |
| **SwMI SW Release** | v6.0 | | | |
| **Terminal Type** | PUMA T3 Ex | | | |
| **Terminal HW Release** | 774-0513/01 | | | |
| **Terminal SW Release** | v6.0 | | | |
| **TIP Specs and TIP Compliance Test Plans** | | | | |
| **Core** | TTR001-01 v5.0.0<br>IOP001-01 v2.6.0<br>TIC-RT001-01 v246 | | | |
| **SDS** | TTR001-02 v2.0.1<br>IOP001-02 v2.0.0<br>TIC-RT001-02 v211 | | | |
| **DGNA** | TTR001-03 v2.0.0<br>IOP001-03 v2.0.1<br>TIC-RT001-03 v217 | | | |
| **Auth** | TTR001-04 v3.0.0<br>IOP001-04 v2.0.0<br>TIC-RT001-04 v222 | | | |
| **PD** | TTR001-05 v2.0.0<br>IOP001-05 v2.0.0<br>TIC-RT001-05 v228 | | | |

| | | | | |
|---|---|---|---|---|
| **AL** | TTR001-09 v2.0.0<br>IOP001-09 v1.1.0<br>TIC-RT001-09 v121 | | | |
| **E2EE** | TTR001-10 v2.0.0<br>IOP001-10 v1.1.0<br>TIC-RT001-10 v120 | | | |
| **AIE** | TTR001-11 v3.0.0<br>IOP001-11 v3.0.0<br>TIC-RT001-11 v3018 | | | |
| **SI** | TTR001-12 v1.0.0<br>IOP001-12 v1.0.0<br>TIC-RT001-12 v122 | | | |
| **ED** | TTR001-13 v2.0.0<br>IOP001-13 v1.0.0<br>TIC-RT001-13 v143 | | | |
| **CF** | TTR001-20 v1.0.1<br>IOP001-20 v0.0.5<br>TIC-RT001-20 v106 | | | |

# Feature compliance report

| **Test Session** | **Selex, Florence, November 2010** | | | |
|---|---|---|---|---|
| **Core** | | | | |
| Registration | Spot 0_pass_of_4 | | | |
| ITSI attach | Spot 0_pass_of_2 | | | |
| 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 | PASSED Spot 2_pass_of_12 | | | |
| Single group attachment | PASSED Spot 1_pass_of_7 | | | |
| Multiple group attachment | PASSED Spot 2_pass_of_6 | | | |
| MS initiated group detachment | Spot 0_pass_of_1 | | | |
| SwMI initiated group management | Not Supported | | | |
| Group call | PASSED Spot 3_pass_of_12 | | | |
| Normal group call | PASSED Spot 1_pass_of_4 | | | |
| 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_2 | | | |
| Broadcast Call | PASSED Complete 1_pass_of_1 | | | |

| | | | | |
|---|---|---|---|---|
| Limited coverage notification | Not Supported | | | |
| Individual call | PASSED Spot 2_pass_of_11 | | | |
| Simplex individual call | PASSED Spot 1_pass_of_3 | | | |
| Duplex individual call | PASSED Spot 1_pass_of_2 | | | |
| Call setup modifications | Spot 0_pass_of_2 | | | |
| Resource Queuing based on Call Priority | Spot 0_pass_of_4 | | | |
| Indication of imminent call disconnection | Not Supported | | | |
| Status messages | PASSED Spot 1_pass_of_4 | | | |
| Individual addressed Status transfer | Spot 0_pass_of_1 | | | |
| Group addressed Status transfer | PASSED Spot 1_pass_of_3 | | | |
| Pre-emptive Priority Call | PASSED Spot 1_pass_of_7 | | | |
| Pre-emption of Resources | Spot 0_pass_of_2 | | | |
| Pre-emption of Busy Users | PASSED Spot 1_pass_of_5 | | | |
| Emergency Call | Spot 0_pass_of_5 | | | |
| Pre-emption of Resources | Spot 0_pass_of_2 | | | |
| Pre-emption of Busy Users | Spot 0_pass_of_1 | | | |
| Call setup modifications | Spot 0_pass_of_2 | | | |
| Cell Re-selection | PASSED Spot 5_pass_of_19 | | | |
| Undeclared | Spot 0_pass_of_1 | | | |
| Unannounced | PASSED Spot 1_pass_of_7 | | | |
| Announced - with Call Restoration | PASSED Spot 4_pass_of_11 | | | |
| Announced - without Call Restoration | Not Supported | | | |
| PSTN interconnect | PASSED Spot 3_pass_of_6 | | | |
| TETRA Originated Call | PASSED Spot 1_pass_of_2 | | | |

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|---|---|---|---|---|
| PSTN Originated Call | Spot 0_pass_of_1 | | | |
| DTMF over-dial | PASSED Complete 1_pass_of_1 | | | |
| Emergency Telephone Calls | PASSED Spot 1_pass_of_2 | | | |
| MS-ISDN Numbering | | | | |
| MS ISDN - Voice Call | Not Supported | | | |
| MS-ISDN Status | Not Supported | | | |
| In Call Signalling | PASSED Spot 2_pass_of_8 | | | |
| Slow Signalling on Traffic Channel (SACCH) | PASSED Spot 1_pass_of_4 | | | |
| Fast Signalling on Traffic Channel (FACCH) | PASSED Spot 1_pass_of_4 | | | |
| Subscriber Class Procedures | PASSED Spot 2_pass_of_5 | | | |
| Cell Selection based on Subscriber Class | Spot 0_pass_of_1 | | | |
| Subscriber Class Delivery during Location Update | Spot 0_pass_of_1 | | | |
| Use of Preferred Subscriber Classes | PASSED Spot 2_pass_of_3 | | | |
| Common Secondary Control Channels | PASSED Spot 2_pass_of_5 | | | |
| One C-SCCH per cell | PASSED Spot 2_pass_of_4 | | | |
| Two C-SCCH per cell | Spot 0_pass_of_2 | | | |
| Three C-SCCH per cell | Not Supported | | | |
| BS Fallback Operation | PASSED Spot 2_pass_of_10 | | | |
| Switch to/from BS Fallback Operation | PASSED Spot 1_pass_of_2 | | | |
| Roaming with BS Fallback Operation | Spot 0_pass_of_1 | | | |
| Services with BS Fallback Operation | PASSED Spot 1_pass_of_7 | | | |
| Energy Economy Mode | | | | |
| Energy Economy Mode Operation | Not Supported | | | |
| Transmit Inhibit | Spot 0_pass_of_5 | | | |

| | | | | |
|---|---|---|---|---|
| TXI Activation & De-Activation without Status message | Spot 0_pass_of_4 | | | |
| TXI Activation & De-Activation with Status message | Not Supported | | | |
| Receipt of group addressed service during TXI | Spot 0_pass_of_1 | | | |
| **Short Data Service (SDS)** | | | | |
| SDS Type 1, 2 or 3 | Spot 0_pass_of_3 | | | |
| SDS Type 1 | Spot 0_pass_of_1 | | | |
| SDS Type 2 | Spot 0_pass_of_1 | | | |
| SDS Type 3 | Spot 0_pass_of_1 | | | |
| SDS-TL | PASSED Spot 2_pass_of_5 | | | |
| Individually Addressed | PASSED Complete 1_pass_of_1 | | | |
| Group Addressed | PASSED Spot 1_pass_of_2 | | | |
| Using MS-ISDN dialling | Not Supported | | | |
| Using UCS2 coding scheme | Spot 0_pass_of_2 | | | |
| Using 7-bit coding scheme | Not Supported | | | |
| Store and Forward | | | | |
| Individually Addressed | Not Supported | | | |
| Group Addressed | Not Supported | | | |
| **Dynamic Group Number Assignment (DGNA)** | | | | |
| Support for individually addressed DGNA | PASSED Spot 4_pass_of_10 | | | |
| Support for individually addressed DGNA assignment without attachment | PASSED Spot 1_pass_of_3 | | | |
| Support for individually addressed DGNA assignment with attachment as selected group | Not Supported | | | |
| Support for individually addressed DGNA assignment with attachment as scanned group | PASSED Spot 2_pass_of_4 | | | |
| Support for individually addressed DGNA assignment with rejected attachment | PASSED Complete 1_pass_of_1 | | | |

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|---|---|---|---|---|
| Support for individually addressed assigment for pre-programmed group | Spot 0_pass_of_4 | | | |
| Support for group addressed DGNA | | | | |
| Support for group addressed DGNA assignment | Not Supported | | | |
| Management of 'group assignment lifetime' | Not Supported | | | |
| Support for group addressed DGNA deassignment | Not Supported | | | |
| Tolerance of unsupported DGNA functions | | | | |
| MS tolerance of unsupported individual addressed DGNA signalling | Not Supported | | | |
| MS tolerance of unsupported group addressed DGNA signalling | Not Supported | | | |
| **Authentication** | | | | |
| SwMI Initiated (non-mutual) Authentication | PASSED Spot 1_pass_of_4 | | | |
| Attach with authentication | PASSED Spot 1_pass_of_2 | | | |
| Roaming with authentication | Not Supported | | | |
| SwMI rejects MS during authentication | Spot 0_pass_of_1 | | | |
| MS rejects SwMI during authentication | Spot 0_pass_of_1 | | | |
| SwMI Initiated Authentication made Mutual by MS | PASSED Complete 1_pass_of_1 | | | |
| Attach with authentication | PASSED Complete 1_pass_of_1 | | | |
| Roaming with authentication | Not Supported | | | |
| TEI Query | | | | |
| TEI Query Operation | Not Supported | | | |
| **TETRA Packet Data** | | | | |
| Context Management | PASSED Spot 1_pass_of_7 | | | |
| Context Activation | PASSED Spot 1_pass_of_7 | | | |
| User authentication | Not Supported | | | |
| Single Slot Packet Data | PASSED Spot 3_pass_of_9 | | | |

| | | | | |
|---|---|---|---|---|
| Data Transfer | PASSED Spot 2_pass_of_6 | | | |
| Cell re-selection | PASSED Spot 1_pass_of_3 | | | |
| Multi Slot Packet Data | Spot 0_pass_of_2 | | | |
| Data Transfer | Spot 0_pass_of_2 | | | |
| **TETRA Ambience Listening (SS-AL)** | | | | |
| Ambience Listening | PASSED Spot 2_pass_of_5 | | | |
| SS-AL Call Setup | Spot 0_pass_of_2 | | | |
| MS initiated SS-AL disconnection | PASSED Spot 2_pass_of_3 | | | |
| No Indication to affected user | PASSED Spot 2_pass_of_5 | | | |
| Interaction with Transmit Inhibit | | | | |
| AL can override TxI | Not Supported | | | |
| AL cannot override TxI | Not Supported | | | |
| **End to End Encryption** | | | | |
| E2EE Voice Call | PASSED Spot 3_pass_of_6 | | | |
| Individual (P2P) call | PASSED Spot 2_pass_of_4 | | | |
| Group (P2MP) call | PASSED Spot 1_pass_of_2 | | | |
| Clear Voice Override (CVO) | Not Supported | | | |
| **Air Interface Encryption** | | | | |
| Security Class 2 Air Interface Encryption | PASSED Spot 6_pass_of_11 | | | |
| Location Updating and AI Signalling Protection | PASSED Spot 3_pass_of_4 | | | |
| TM-SCK provisioning during location updating | Not Supported | | | |
| Communications between parties using encryption | PASSED Spot 1_pass_of_2 | | | |
| 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 and Change of TM-SCK | Not Supported | | | |
| Security Class 3 Air Interface Encryption | PASSED Spot 8_pass_of_20 | | | |
| Location Updating and AI Signalling Protection | PASSED Spot 5_pass_of_10 | | | |
| DCK Forwarding at MS request | PASSED Spot 2_pass_of_3 | | | |
| DCK Forwarding by SwMI (without MS request) | Not Supported | | | |
| DCK Retrieval | Not Supported | | | |
| CCK provisioning during location updating | PASSED Spot 2_pass_of_4 | | | |
| 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 and Change of CCK | PASSED Spot 1_pass_of_3 | | | |
| Security Class 3G Air Interface Encryption | | | | |
| GCK Key Association setting | Not Supported | | | |
| Communications between parties using encryption | Not Supported | | | |
| Communications between clear and encrypted parties | Not Supported | | | |
| OTAR and Change of GCK | Not Supported | | | |
| Change of CMG and GSKO | | | | |
| OTAR and change of CMG and GSKO | Not Supported | | | |
| Key Status demand | | | | |
| SCK Key Status demand | Not Supported | | | |
| GCK Key Status demand | Not Supported | | | |
| GSKO Key Status demand | Not Supported | | | |
| Change of Security Class for Fallback operation | Spot 0_pass_of_3 | | | |
| Seamless change to Security Class 2 for BS Fallback operation | Not Supported | | | |

| | | | | |
|---|---|---|---|---|
| Non-seamless change to Security Class 2 for BS Fallback operation | Spot 0_pass_of_3 | | | |
| Provisioning of TM-SCK for fallback to Security Class 2 operation | Not Supported | | | |
| Change to Security Class 1 for BS Fallback operation | Not Supported | | | |
| Change of Security Class (other than for Fallback operation) | | | | |
| Change between Security Class 3 and Security Class 3G | Not Supported | | | |
| Change between Security Class 2 and Security Class 3 | Not Supported | | | |
| Change from Security Class 3G to Security Class 2 | Not Supported | | | |
| Key Management for Secure Direct Mode Operation | | | | |
| OTAR and change of DM-SCK | Not Supported | | | |
| **Service Interaction** | | | | |
| MS initiated Service Interaction | PASSED Spot 1_pass_of_3 | | | |
| MS initiated Circuit Mode Call during another Circuit Mode Call | PASSED Spot 1_pass_of_3 | | | |
| MS initiated Circuit Mode Call during Packet Mode Transfer | Not Supported | | | |
| MS initiated Packet Mode Transfer during Circuit Mode Call | Not Supported | | | |
| SwMI initiated Service Interaction | PASSED Spot 3_pass_of_9 | | | |
| SwMI initiated Circuit Mode Call during another Circuit Mode Call | PASSED Spot 2_pass_of_8 | | | |
| SwMI initiated Circuit Mode Call during Packet Mode Transfer | PASSED Complete 1_pass_of_1 | | | |
| SwMI initiated Packet Mode Transfer during Circuit Mode Call | Not Supported | | | |
| **Enable Disable** | | | | |
| Enable and temporary disable of an MS | PASSED Spot 6_pass_of_19 | | | |
| Enable and temporary disable of an MS without authentication | PASSED Spot 1_pass_of_6 | | | |
| Enable and temporary disable of an MS with authentication | PASSED Spot 3_pass_of_6 | | | |
| Registration of a temporary disabled MS | Spot 0_pass_of_2 | | | |
| Rejection of applicable invalid enable/disable requests | Not Supported | | | |

| | | | | |
|---|---|---|---|---|
| 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 Spot 2_pass_of_5 | | | |
| Permanent disable of an MS | Spot 0_pass_of_4 | | | |
| Permanent disable of an MS with authentication | Spot 0_pass_of_3 | | | |
| Permanently Disabled MS cannot send air interface signalling | Spot 0_pass_of_1 | | | |

| Call Forwarding | | | | |
|---|---|---|---|---|
| Call Forwarding Unconditional | PASSED Spot 1_pass_of_3 | | | |
| Call Forwarding Unconditional Individual Call | Spot 0_pass_of_1 | | | |
| Call Forwarding Unconditional SDS | PASSED Complete 1_pass_of_1 | | | |
| Call Forwarding Unconditional Status | Spot 0_pass_of_1 | | | |
| Call Forwarding Conditional | PASSED Spot 1_pass_of_3 | | | |
| Call Forwarding Conditional Individual Call | PASSED Spot 1_pass_of_3 | | | |
| Call Forwarding Information Displayed | PASSED Spot 1_pass_of_4 | | | |
| Call Forwarding Information Displayed | PASSED Spot 1_pass_of_4 | | | |

## Annex A: Statement of commonality – Oct 2010



**TETRA MoU**
**IOP Testing and Certification**

### Statement of Commonality – 26th October 2010

| Reference identifier | Software Release | Hardware Release |
|---|---|---|
| PUMA T3 Plus | 6.0 | 774-0729/01 |

The following products are equivalent with the reference for TETRA IOP testing purposes:

| Product identifier | Software Release | Hardware Release |
|---|---|---|
| PUMA T3-Ex | 6.0 | 774-0513/01 |
| PUMA T3 Plus 2 Ex | 6.0 | 774-0973 |
| VS3000 | 6.0 | 774-0541 |
| | | |

We declare that the products behaviour is equivalent with the reference and they will reach same test results as the reference. We acknowledge the shared liability of the incurred cost should the results show otherwise.

We therefore request spot testing of the above mentioned products during the official IOP test session at Via E. Barsanti 8, 50127, Florence, Italy, 3 November 2010 to 21 December 2010, SELEX BsNode infrastructure, where full testing of the reference will be performed.

Functionalities to be spot tested are listed in the relevant TIC-RT declaration.

For and on behalf of

Reference
*SELEX Communications*

Products
*PUMA T3 Plus*
*PUMA T3-Ex*
*PUMA T3 Plus 2 Ex*
*VS3000*

Authorised signatories:
Date and place: 28/10/2010

Guidance information for the TETRA Certification body

The reference and the products are common in following terms
*<Products are equal to the reference for the protocol stack, the radio application software and the hardware; differences are in the casing, the display and keypad, the RF hardware and the antenna>*