



TETRA Interoperability Certificate

Motorola, Dimetra IP, SwMI –
Motorola, MTM5400, Terminal

Copenhagen, January 2011

Table with 4 columns: Latest Certified SwMI SW Release, 7.1, Latest Certified Terminal SW Release, MR10.0TEDS, Latest Certified SwMI HW Release, 7.1, Latest Certified Terminal HW Release, MT953C

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola, Dimetra IP, SwMI and the Motorola, MTM5400, 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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Certified features

Tetra Association TTR001-05:PD	
Context Management	-
Single Slot Packet Data	Certified
Multi Slot Packet Data	-
TEDS	Certified
Mixed band operation	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. 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	Motorola Copenhagen January 2011			
SwMI Type	Dimetra IP			
SwMI HW Release	7.1			
SwMI SW Release	7.1			
Terminal Type	MTM5400			
Terminal HW Release	MT953C			
Terminal SW Release	MR10.0TEDS			
TIP Specs and TIP Compliance Test Plans				
PD	TTR001-05 v3.0.0 IOP001-05 v3.0.2 TIC-RT001-05 v300			



Feature compliance report

Test Session	Motorola Copenhagen January 2011			
TETRA Packet Data				
Context Management	FAILED Complete 9_pass_of_11			
Context Activation	FAILED Complete 5_pass_of_7			
User authentication	PASSED Complete 4_pass_of_4			
Single Slot Packet Data	PASSED Complete 10_pass_of_10			
Data Transfer	PASSED Complete 7_pass_of_7			
Cell re-selection	PASSED Complete 3_pass_of_3			
Multi Slot Packet Data	FAILED Complete 2_pass_of_4			
Data Transfer	FAILED Complete 2_pass_of_4			



TEDS	PASSED Complete 15_pass_of_15			
TEDS with Context Activation	PASSED Complete 2_pass_of_2			
TEDS Data Transmission	PASSED Complete 7_pass_of_7			
TEDS Cell Reselection	PASSED Complete 6_pass_of_6			
Mixed band operation	PASSED Complete 4_pass_of_4			
Mixed band operation, inter-cell	PASSED Complete 4_pass_of_4			
Mixed band operation, intra-cell	PASSED Complete 4_pass_of_4			
Mixed band operation, Full	PASSED Complete 4_pass_of_4			