TETRA ASSOCIATION

ISCTI

TETRA Interoperability Certificate

Teltronic, NEBULA, SwMI –
Motorola, MTM800e, Terminal

Zaragoza, March 2010

Latest Certified SwMI SW Release:	09.15.50	**Latest Certified Terminal SW Release:**	MR5.11.1
Latest Certified SwMI HW Release:	09.15.13.18	**Latest Certified Terminal HW Release:**	MT912M

ISCOM (Istituto Superiore della Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Teltronic, NEBULA, SwMI and the Motorola, MTM800e, 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.

IOP test engineer

Ivano Luciani

Radio Office Manager

Ing. Giuseppe Pierri

ISCTI - V.le America 201, 00144 Rome, Italy
Ph.: +39 06 5444 2663, Fax: +39 06 5410904
e-mail: tetra_ctc.iscom@sviluppoeconomico.gov.it,
Web: www.sviluppoeconomico.gov.it

Date of issue:
20 July 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	Certified
SDS-TL	Certified
Store and Forward	-
Tetra Association TTR001-03:DGNA	
Support for individually addressed DGNA	Certified
Support for group addressed DGNA	Partial
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	Partial
Tetra Association TTR001-10:E2EE	
E2EE Voice Call	Partial
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 (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. 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		
SwMI Type	NEBULA	NEBULA		
SwMI HW Release	09.15.13.18	07.11.09.14		
SwMI SW Release	09.15.50	7.11		
Terminal Type	MTM800e	MTM800e		
Terminal HW Release	MT912M	PMUE44xxA		
Terminal SW Release	MR5.11.1	MR5.6.1		
TIP Specs and TIP Compliance Test Plans				
Core	TTR001-01 v5.1.1 IOP001-01 v2.6.0 TIC-RT001-01 v242	TTR001-01 v500 IOP001-01 v260 TIC-RT001-01 v231		
SDS	TTR001-02 v2.1.0 IOP001-02 v2.0.0 TIC-RT001-02 v210	TTR001-02 v201 IOP001-02 v200 TIC-RT001-02 v202		
DGNA	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v216	TTR001-03 v200 IOP001-03 v201 TIC-RT001-03 v211		
Auth	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v219	TTR001-04 v300 IOP001-04 v200 TIC-RT001-04 v214		

PD	TTR001-05 v3.0.0 IOP001-05 v2.0.0 TIC-RT001-05 v226	TTR001-05 v200 IOP001-05 v200 TIC-RT001-05 v223		
AL	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v118	TTR001-09 v200 IOP001-09 v110 TIC-RT001-09 v113		
E2EE	TTR001-10 v2.0.0 IOP001-10 v1.1.0 TIC-RT001-10 v117	TTR001-10 v200 IOP001-10 v110 TIC-RT001-10 v112		
AIE	TTR001-11 v3.0.0 IOP001-11 v3.0.0 TIC-RT001-11 v3015	TTR001-11 v200 IOP001-11 v200 TIC-RT001-11 v222		
SI	TTR001-12 v1.0.0 IOP001-12 v1.0.0 TIC-RT001-12 v119	TTR001-12 v100 IOP001-12 v100 TIC-RT001-12 v113		
ED	TTR001-13 v2.0.0 IOP001-13 v1.0.0 TIC-RT001-13 v140	Not Tested		

Feature compliance report

Test Session	Teltronic, Zaragoza, March 2010	Teltronic, Zaragoza, March 2008		
Core				
Registration	Spot 0_pass_of_3	Spot 0_pass_of_3		
ITSI attach	Spot 0_pass_of_1	Spot 0_pass_of_1		
SwMI initiated location updating	Spot 0_pass_of_1	Spot 0_pass_of_1		
LA timer based Periodic location updating	Not Supported	Not supported SwMI-nr		
De-registration	Spot 0_pass_of_1	Spot 0_pass_of_1		
Group Management	PASSED Spot 1_pass_of_11	Spot 0_pass_of_10		
Single group attachment	Spot 0_pass_of_5	Spot 0_pass_of_4		
Multiple group attachment	PASSED Spot 1_pass_of_4	Spot 0_pass_of_4		
MS initiated group detachment	Spot 0_pass_of_2	Spot 0_pass_of_2		
SwMI initiated group management	Not Supported	Not supported SwMI-nr		
Group call	PASSED Spot 1_pass_of_11	PASSED Spot 1_pass_of_11		
Normal group call	Spot 0_pass_of_4	Spot 0_pass_of_4		
Late entry	Spot 0_pass_of_1	Spot 0_pass_of_1		
Priority Group scanning	Spot 0_pass_of_3	Spot 0_pass_of_3		
Call setup modifications	Spot 0_pass_of_1	Spot 0_pass_of_1		

Resource Queuing based on Call Priority	PASSED Spot 1_pass_of_2	PASSED Spot 1_pass_of_2		
Broadcast Call	Not Supported	Note 1		
Limited coverage notification	Not Supported	Note 1		
Individual call	PASSED Spot 3_pass_of_12	PASSED Spot 1_pass_of_12		
Simplex individual call	Spot 0_pass_of_4	Spot 0_pass_of_4		
Duplex individual call	PASSED Spot 1_pass_of_2	Spot 0_pass_of_2		
Call setup modifications	Spot 0_pass_of_2	Spot 0_pass_of_2		
Resource Queuing based on Call Priority	PASSED Spot 2_pass_of_4	PASSED Spot 1_pass_of_4		
Indication of imminent call disconnection	Not Supported	Not supported SwMI-nr MS-nr		
Status messages	Spot 0_pass_of_4	Spot 0_pass_of_4		
Individual addressed Status transfer	Spot 0_pass_of_1	Spot 0_pass_of_1		
Group addressed Status transfer	Spot 0_pass_of_3	Spot 0_pass_of_3		
Pre-emptive Priority Call	PASSED Spot 2_pass_of_6	PASSED Spot 1_pass_of_6		
Pre-emption of Resources	Spot 0_pass_of_2	PASSED Spot 1_pass_of_2		
Pre-emption of Busy Users	PASSED Spot 2_pass_of_4	Spot 0_pass_of_4		
Emergency Call	PASSED Spot 1_pass_of_3	Spot 0_pass_of_3		
Pre-emption of Resources	PASSED Spot 1_pass_of_2	Spot 0_pass_of_2		
Pre-emption of Busy Users	Spot 0_pass_of_1	Spot 0_pass_of_1		
Call setup modifications	Not Supported	Not supported SwMI-nr MS-nr		

Cell Re-selection	PASSED Spot 6_pass_of_15	PASSED Spot 7_pass_of_15		
Undeclared	Spot 0_pass_of_1	Spot 0_pass_of_1		
Unannounced	PASSED Spot 2_pass_of_7	PASSED Spot 2_pass_of_7		
Announced - with Call Restoration	PASSED Spot 4_pass_of_7	PASSED Spot 5_pass_of_7		
Announced - without Call Restoration	Not Supported	Not supported SwMI-nr MS-nr		
PSTN interconnect	PASSED Spot 1_pass_of_5	PASSED Spot 2_pass_of_5		
TETRA Originated Call	PASSED Spot 1_pass_of_2	PASSED Spot 2_pass_of_3		
PSTN Originated Call	Spot 0_pass_of_1	Spot 0_pass_of_1		
DTMF over-dial	Spot 0_pass_of_1	Spot 0_pass_of_1		
Emergency Telephone Calls	Spot 0_pass_of_1	Note 1		
MS-ISDN Numbering				
MS ISDN - Voice Call	Not Supported	Not supported SwMI-nr MS-nr		
MS-ISDN Status	Not Supported	Not supported SwMI-nr MS-nr		
In Call Signalling	PASSED Spot 1_pass_of_7	PASSED Spot 2_pass_of_7		
Slow Signalling on Traffic Channel (SACCH)	PASSED Spot 1_pass_of_4	PASSED Spot 1_pass_of_4		
Fast Signalling on Traffic Channel (FACCH)	Spot 0_pass_of_3	PASSED Spot 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 Spot 1_pass_of_7			
One C-SCCH per cell	Spot 0_pass_of_4	Not supported MS-nr		
Two C-SCCH per cell	PASSED Spot 1_pass_of_3	Not supported MS-nr		
Three C-SCCH per cell	PASSED Spot 1_pass_of_2	Not supported MS-nr		
BS Fallback Operation	PASSED Spot 2_pass_of_9	PASSED Spot 4_pass_of_9		
Switch to/from BS Fallback Operation	Not Supported	Not supported SwMI-nr		
Roaming with BS Fallback Operation	PASSED Complete 1_pass_of_1	Spot 0_pass_of_1		
Services with BS Fallback Operation	PASSED Spot 1_pass_of_8	PASSED Spot 4_pass_of_8		
Energy Economy Mode				
Energy Economy Mode Operation	Not Supported	Not supported SwMI-nr MS-nr		
Transmit Inhibit	PASSED Spot 1_pass_of_5	PASSED Spot 2_pass_of_5		
TXI Activation & De-Activation without Status message	PASSED Complete 1_pass_of_1	Not supported MS-nr		
TXI Activation & De-Activation with Status message	Spot 0_pass_of_3	PASSED Spot 2_pass_of_4		
Receipt of group addressed service during TXI	Spot 0_pass_of_1	Spot 0_pass_of_1		
Short Data Service (SDS)				
SDS Type 1, 2 or 3	Spot 0_pass_of_3	Spot 0_pass_of_3		
SDS Type 1	Spot 0_pass_of_1	Spot 0_pass_of_1		
SDS Type 2	Spot 0_pass_of_1	Spot 0_pass_of_1		

SDS Type 3	Spot 0_pass_of_1	Spot 0_pass_of_1		
SDS-TL	PASSED Spot 2_pass_of_5	PASSED Spot 2_pass_of_5		
Individually Addressed	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Group Addressed	Spot 0_pass_of_2	PASSED Spot 1_pass_of_2		
Using MS-ISDN dialling	Not Supported	Not supported SwMI-nr MS-nr		
Using UCS2 coding scheme	PASSED Spot 1_pass_of_2	Spot 0_pass_of_2		
Using 7-bit coding scheme	Not Supported	Note 1		
Store and Forward				
Individually Addressed	Not Supported	Note 1		
Group Addressed	Not Supported	Note 1		
Dynamic Group Number Assignment (DGNA)				
Support for individually addressed DGNA	PASSED Spot 2_pass_of_9	PASSED Spot 2_pass_of_10		
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 Spot 1_pass_of_3	PASSED Spot 1_pass_of_3		
Support for individually addressed DGNA assignment with attachment as scanned group	PASSED Spot 1_pass_of_3	PASSED Spot 1_pass_of_4		
Support for individually addressed DGNA assignment with rejected attachment	Spot 0_pass_of_1	Spot 0_pass_of_1		
Support for individually addressed assignment for pre-programmed group	Spot 0_pass_of_3	Spot 0_pass_of_3		
Support for group addressed DGNA	Spot Time_Limited 1_pass_of_7			
Support for group addressed DGNA assignment	Spot 0_pass_of_4	Not supported SwMI-nr		

Management of 'group assignment lifetime'	Time_Limited 1_pass_of_2	Not supported SwMI-nr		
Support for group addressed DGNA deassignment	Time_Limited 0_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	Spot 0_pass_of_3	Spot 0_pass_of_3		
Attach with authentication	Spot 0_pass_of_1	Spot 0_pass_of_1		
Roaming with authentication	Spot 0_pass_of_1	Spot 0_pass_of_1		
SwMI rejects MS during authentication	Spot 0_pass_of_1	Spot 0_pass_of_1		
MS rejects SwMI during authentication	Not Supported	Not supported SwMI-nr MS-nr		
SwMI Initiated Authentication made Mutual by MS	PASSED Spot 1_pass_of_2	PASSED Spot 1_pass_of_2		
Attach with authentication	PASSED Complete 1_pass_of_1	PASSED Complete 1_pass_of_1		
Roaming with authentication	Spot 0_pass_of_1	Spot 0_pass_of_1		
TEI Query				
TEI Query Operation	Not Supported	Not supported SwMI-nr MS-nr		
TETRA Packet Data				
Context Management	PASSED Spot 1_pass_of_9	Spot 0_pass_of_9		
Context Activation	PASSED Spot 1_pass_of_7	Spot 0_pass_of_7		
User authentication	Spot 0_pass_of_2	Spot 0_pass_of_2		

Single Slot Packet Data	PASSED Spot 2_pass_of_10	PASSED Spot 3_pass_of_10		
Data Transfer	PASSED Spot 1_pass_of_7	PASSED Spot 1_pass_of_7		
Cell re-selection	PASSED Spot 1_pass_of_3	PASSED Spot 2_pass_of_3		
Multi Slot Packet Data	PASSED Spot 1_pass_of_2	PASSED Spot 1_pass_of_2		
Data Transfer	PASSED Spot 1_pass_of_2	PASSED Spot 1_pass_of_2		
TETRA Ambience Listening (SS-AL)				
Ambience Listening	PASSED Spot 1_pass_of_5	PASSED Spot 1_pass_of_5		
SS-AL Call Setup	Spot 0_pass_of_2	Spot 0_pass_of_2		
MS initiated SS-AL disconnection	PASSED Spot 1_pass_of_3	PASSED Spot 1_pass_of_3		
No Indication to affected user	PASSED Spot 1_pass_of_5	PASSED Spot 1_pass_of_5		
Interaction with Transmit Inhibit	Time_Limited 0_pass_of_1			
AL can override TxI	Not Supported	Note 1		
AL cannot override TxI	Time_Limited 0_pass_of_1	Note 1		
End to End Encryption				
E2EE Voice Call	PASSED Spot No_Equipment 1_pass_of_6			
Individual (P2P) call	PASSED Spot No_Equipment 1_pass_of_4	Note 1		
Group (P2MP) call	Spot 0_pass_of_2	Note 1		
Clear Voice Override (CVO)	Not Supported	Note 1		

Air Interface Encryption				
Security Class 2 Air Interface Encryption				
Location Updating and AI Signalling Protection	Not Supported	Not supported SwMI-nr		
TM-SCK provisioning during location updating	Not Supported	Not supported SwMI-nr		
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 Spot 4_pass_of_16	PASSED Spot 3_pass_of_12		
Location Updating and AI Signalling Protection	PASSED Spot 4_pass_of_8	PASSED Spot 2_pass_of_4		
DCK Forwarding at MS request	PASSED Spot 2_pass_of_3	PASSED Spot 1_pass_of_2		
DCK Forwarding by SwMI (without MS request)	Not Supported	Not supported SwMI-nr		
DCK Retrieval	Not Supported	Not supported SwMI-nr MS-nr		
CCK provisioning during location updating	PASSED Spot 2_pass_of_3	PASSED Spot 1_pass_of_2		
Communications between parties using encryption	Spot 0_pass_of_2	Spot 0_pass_of_2		
Communications between clear and encrypted parties	Spot 0_pass_of_2	Spot 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	Spot 0_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		
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported	Note 1		
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		
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 Spot 1_pass_of_5	PASSED Spot 2_pass_of_5		
MS initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 1_pass_of_3	PASSED Spot 1_pass_of_3		
MS initiated Circuit Mode Call during Packet Mode Transfer	Spot 0_pass_of_2	PASSED Spot		

		1_pass_of_2		
MS initiated Packet Mode Transfer during Circuit Mode Call	Not Supported	Not supported MS-nr		
SwMI initiated Service Interaction	PASSED Spot 3_pass_of_10	Spot Time_Limited 1_pass_of_21		
SwMI initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 2_pass_of_8	Spot Time_Limited 1_pass_of_19		
SwMI initiated Circuit Mode Call during Packet Mode Transfer	PASSED Spot 1_pass_of_2	Spot 0_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 Spot 2_pass_of_9			
Enable and temporary disable of an MS without authentication	Spot 0_pass_of_2			
Enable and temporary disable of an MS with authentication	PASSED Spot 1_pass_of_2			
Registration of a temporary disabled MS	Spot 0_pass_of_2			
Rejection of applicable invalid enable/disable requests	PASSED Spot 1_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	Spot 0_pass_of_2			
Permanent disable of an MS with authentication	Spot 0_pass_of_1			
Permanently Disabled MS cannot send air interface signalling	Spot 0_pass_of_1			

Note 1: Details of the certified items have changed.

Annex A: Declaration (Spot)

TETRA MoU IOP Testing and Certification	

Statement of Commonality

Reference product	Software Release	Hardware Release
Motorola MTP850	MR5.11.1	PT911B

Motorola, Sydvestvej 15, DK2600 Glostrup, Denmark

Declare that for IOP testing, the following products are equivalent to the reference product:

Product	Software Release	Hardware Release
Motorola MTM800e	MR5.11.1	MT912M
Motorola MTH800	MR5.11.1	PT911FR
Motorola MTP850Ex	MR5.11.1	PT911BSEX
Motorola MTP810Ex	MR5.11.1	PT911BLEX
Motorola CEP400	MR5.11.1	PT911CF

This declaration is made due to these six products having identical software code for implementing the upper and lower MAC, layer 2, and layer 3 protocols in accordance with EN 300 392-2 with reference to IOP testing, having only differences related to them supporting different hardware platforms.

The **MTM800e** does **not** support **Energy Economy** mode. This feature is primarily intended handheld devices where power consumption is crucial.

The **MTP850Ex** and **MTP810Ex** do **not** support **End to End Encryption** feature due to market differentiation.

The **CEP400** does **not** support **End to End Encryption, Air Interface Encryption, Packet Data and SDS Type 1, 2 and 3** features due to market differentiation.

We therefore request spot testing of the Motorola MTM800E, MTH800, MTP850Ex, MTP810Ex and CEP400 terminals during the official IOP test session at Teltronic, Zaragoza, from March 15th to April 30th, 2010, where full testing of the Motorola MTP850 terminal will be performed.

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

For and on behalf of Motorola

Authorised signatory:

June 24, 2010 .....

Ole Hammer