



IST doc.10

TETRA Terminal Interoperability Certificate

December 2002

SPOT TEST MOTOROLA

Manufacturer	Terminal Type	Software/Hardware Release No.	Dates of testing
Motorola	MTM700	SW: 73.21.20 HW: PMUE 1840 A	12-13 December 2002

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) has witnessed that the Motorola terminal is operating in accordance with:

TETRA Interoperability Profile:

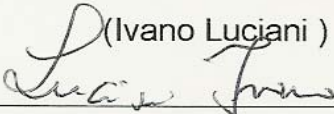
TIP v2 Core - TTR 001 ver 2.1.1, March 2000

TIP V3 Core(MGrA) - TTR 001-01 ver 3.0.13 June 2001


TIP v3 SDS - TTR 001-2 ver 1.0.1, August 2001

The test results for the tested features can be found in the tables of this certificate.

Authorised IOP test engineer

(Ivano Luciani)


Radio Office Manager

(Ing. A. La Padula)


ISCTI has made every effort to ensure that tests have been made correctly, and in accordance with the relevant TIPs. ISCTI has no liability for the test results, or towards the manufacturers.

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Information about the equipment used for testing

Testing during the December 2002 IOP Test Session:

The tests were performed using the following SwMI:

Manufacturer	Infrastructure	Software/Hardware Release No.
Teltronic	NEBULA	HW/SW: 00.01.00.04

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Additional information about the test performed

The tests were performed in the 380-400 MHz band. The SwMI was operating with the following configuration:

MCC	238
MNC	07
Colour code	47
LAI carrier frequency (BS Tx) (Single Site System)	390.0 MHz
PSTN gateway	16777184
Subscriber classes	FFFF16

Test Results

The test results are shown in the tables below.

Test results and the certificates from previous IOP test session are available on TETRA MoU web site (<http://www.tetramou.com/interoperability>).

Tables indicate whether or not tests addressing a specific requirement of the TIP specification have been performed, whether or not the requirement is applicable for the SwMI, and the result of the test if executed. Each entry of the table may take one of seven values:

- : No test performed.
- N/A: Not applicable for the SwMI
- NTPA: No Test Plan/Case Available
- P : Pass
- No : Not supported by Terminal
- F : Fail
- I : Inconclusive

The test results have been derived from examining the behaviour of a live system. The verdicts indicated are based on the log evaluation of the information exchange between the SwMI and the terminals indicated in the following tables. The verdicts reflect the fact that at the time of the IOP testing it was/was not possible to demonstrate a behaviour that was in accordance with the related requirement.

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Table 1: Test performed CORE TIP V2

Teltronic SwMI		MTM700
6 Registration		
6.1 ITSI attach		No
6.2 ITSI attach including group attachment		P
6.3 Roaming location updating		N/A
6.4 De-registration		-
7 Individual call		
7.1 Call setup		
7.1.1 Hook signalling Semi-duplex		P
7.1.1 Hook signalling Semi-duplex, Queuing		-
7.1.1 Hook signalling Duplex		-
7.1.2 Direct through-connect Semi-duplex		P
7.1.2 Direct through-connect Semi-duplex, queuing		-
7.1.2 Direct through-connect Duplex		No
7.1.3 Call setup Modifications		
7.1.3.1.1 By SwMI, Direct to Hook		N/A
7.1.3.1.2 By SwMI, Hook to Direct		N/A
7.1.3.2 By called Party (7.1.3.2.3 Core 3)		No
7.2 Transmission control		
7.2.1 End of transmission, Hook signalling		P
7.2.1 End of transmission, Direct call		P
7.2.2 Request to transmit, Hook signalling		P
7.2.2 Request to transmit, Direct call		P
7.2.3 Request for speech item		P
7.2.3 Pre-emptive speech item request		P
7.3 Call maintenance		NTPA
7.4 Call disconnection (by calling party-simplex)		P
7.4 Call disconnection (by calling party - duplex)		-
7.5 Emergency individual call		No
7.5.1 Emergency speech item request		No
7.5.2 Emergency individual call modification		No
8 Group management		
8.4 MS Attachment of the selected group		P
8.4 MS Attachment of the selected group (Rejection)		-
8.4 MS Attachment of the Null group		-
8.4 MS Change of the selected group		P
8.6 MS initiated detachment		No
8.7 SwMI initiated group attachment and detachment		
8.7.1 SwMI initiated detachment (5.4.1)		No
8.7.2 SwMI initiated attachment (5.4.1)		No
8.7.3 SwMI initiated group reporting		No
8.7.4 SwMI initiated registration with group report request		No
8.7.5 SwMI initiated registration without group report request		N/A

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Teltronic SwMI		MTM700
9 Group call		
9.1 Call setup		P
9.1 Call setup (Queuing)		P
9.1.1 Call setup modifications, Point-to-multipoint to point to point		N/A
9.1.1 Call setup modifications, Call priority		N/A
9.2.1 End of transmission		P
9.2.2 Request to transmit		P
9.2.3.Pre emptive speech item request		P
9.3 Call disconnection (by SwMI)		P
9.4 Late entry		-
9.5 Emergency group call .		
9.5 Emergency group call (Setup to busy group)		P
9.5.1 Emergency resource pre-emption		-
9.5.2 Emergency group call modification		N/A
10 Cell re-selection		
10.1 Undeclared cell re-selection		N/A
10.2 Unannounced cell re-selection with call restoration		
10.2.1 (Group call)		N/A
10.2.1 (Queuing, group call)		N/A
10.2.1 (individual call)		N/A
10.2.1 (Queuing, individual call)		N/A
10.2.2 Announced cell re –selection without preferred Neighbour selected with call restoration		
10.2.2 (Group call)		N/A
10.2.2 (Queuing, group call)		N/A
10.2.2 (Pre-emption, group call)		N/A
10.2.2 (individual call, traffic) TX		N/A
10.2.2 (individual call, traffic) Rx		N/A
10.2.2 (individual call, inactivity)		N/A
10.2.2 (Queuing, individual call, traffic) Tx		N/A
10.2.2 (Queuing, individual call, traffic) RX		N/A
10.2.2 (Queuing, individual call, inactivity)		N/A
11 Short data service		
11.1 Status messages (MS to dispatcher)		N/A
11.1 Status messages (MS to MS)		No
11.1 Status messages (Text messaging)		-

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Teltronic SwMI	MTM700
12 Telephone call	
12.1 Gateway Addresses	P
12.2 Call Set-up	
12.2.1 MS Originated, Late Through-Connect	-
12.2.2 MS Originated, Early Through-Connect	P
12.2.3 MS Originated, Call Queued	P
12.2.4 MS Terminated	N/A
12.3 Call Maintenance	NTPA
12.4 DTMF Over-dial	P
12.5 Disconnect Causes	P
12.6 Emergency telephone call	NTPA

Table 2: Test performed CORE (MGrA) TIP V3

Teltronic SwMI	MTM700
8 Group management	
8.5 Multiple group attachment	P
8.5 Multiple group attachment, failure	-

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Table 3: Test performed SDS TIP V3

Teltronic SwMI	MTM700
7 User defined data type 1, 2 and 3	
7 Type 1	No
7 Type 2	No
7 Type 3 (5.1)	No
8 User defined data type 4	
8 User defined data type 4 without SDS-TL	NTPA
8.1.2 MS to MS, Standard Report (5.2)	-
8.1.2 MS to MS, Standard Report with Store and Forward (5.2)	No
8.1.3 MS to MS, Short Report (5.2)	No
8.2 Text messaging	
8.2.1.4 No acknowledgement requested (5.3)	-
8.2.2 MS to MS, Short report (5.2)	No

Comments:

No Comment

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