



TETRA Terminal Interoperability Certificate

10 September 2002

Teltronic

Manufacturer	Terminal Type	Software/Hardware Release No.
Teltronic	MDT-400	March 2001: SW: 01.02.01 HW: 01.03 April 2002: SW: 02.02b18 HW: 00.03.00.01

Telelaboratoriet has witnessed that the Teltronic terminal is operating in accordance with

TTR 001-02 v1.0.1 (Aug 2001), TETRA Interoperability Profile (TIP)
version 3 Part 2: Short Data Service

for the following features:

Features	Tested (Yes/No)
• MS to MS SDS types 1-3	Yes
• MS to Group SDS types 1-3	No
• MS to MS SDS type 4 without using SDS-TL	No
• MS to Group SDS type 4 without using SDS-TL	No
• MS to MS SDS type 4 using SDS-TL	Yes
• MS to Group SDS type 4 using SDS-TL	Yes

The tests have been performed on a number of infrastructures. Details concerning the used infrastructures and the dates when the testing were performed can be found on page 2 of the certificate.

The test results for the tested features can be found in table 1 and 2 of this certificate.

Authorised IOP test engineer

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Telelaboratoriet (TDC Mobil A/S) has made every effort to ensure that tests have been made correctly, and in accordance with TIP V2. Telelaboratoriet (TDC Mobil A/S) 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 March 2001 IOP test session:

The tests were performed using the following infrastructures:

Manufacturer	Infrastructure	Software/Hardware Release No.	Dates of testing
Nokia	NTS 2.1	SW: DXT64: W2.17-0 CD2, TBS400: TBCPGM 5.23-0 HW: DXT 64	19-22 March 2001
Marconi/OTE	System version 2.1.0	SW: TETRA_SCN_7_6_15 HW: SCN-T774-0117/01	23 and 26-28 March 2001
Simoco Digital Systems/Frequentis	SFT2000	SW: 1.2 HW: v1	27-29 March 2001

The tests were performed in low frequency band (380-400 MHz).

Testing during the April 2002 IOP test session:

The tests were performed using the following infrastructure

Manufacturer	Infrastructure	Software/Hardware Release No.	Dates of testing
Frequentis/Damm	Motorola Compact TETRA	SW: 1.1 HW: CTS200 (380-400MHz)	18 April 2002
		SW: 1.1 HW: CTS100 (410-430MHz)	

The tests were performed both in low frequency band (380-400 MHz) and in high frequency band (410-430 MHz).

Test Results

Table 1 Test results from the March 2001 IOP test session and Table 2 Test results from the April 2002 IOP test session:

Table 1 and table 2 indicates whether or not tests addressing a specific requirement of the TIP specification have been performed, whether or not the requirement is applicable for the combination of the SwMI and the terminal, and the result of the test if executed. Each entry of the table may take one of six values: -: No test performed, N/A: Not applicable, P: Pass, F: Fail, I: Inconclusive or NTA: No test case available. NTA will only be allocated if both SwMI and terminal has indicated that they support (comply with) the corresponding feature (requirement); if either has indicated the feature (requirement) as not being



supported then the entry will be N/A. In case of all entries of a row being N/A it should be assumed that this feature is not supported by the terminal.

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 terminal indicated in the 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.

Table 1: Tests performed during the in March 2001 test session

Abbreviations:

- : Not performed.
- N/A: Not applicable
- P: Pass
- F: Fail
- I: Inconclusive
- NTA: No test case available

Teltronic MDT-400 Terminal	Marconi/OTE System Version 2.1.0	Nokia NTS 2.1	Simoco Digital Systems/ Frequents SFT2000
7 User defined data type 1, 2 and 3 (Text case Number index)			
7 Type 1	NTA	NTA	NTA
7 Type 2	NTA	NTA	NTA
7 Type 3 (5.1)	P	P	N/A
8 User defined data type 4 without SDS-TL			
	NTA	NTA	NTA
8.1 User defined data type 4 with SDS-TL			
8.1.2 MS to MS, Standard Report	NTA	NTA	NTA
8.1.2 MS to MS, Standard Report with Store and Forward	NTA	NTA	NTA
8.1.3 MS to MS, Short Report	NTA	NTA	NTA
8.2 Text messaging			
8.2.1.4 No acknowledgement requested (5.3)	P	P ¹	P ²
8.2.2 MS to MS, Short report (5.2)	P	P ¹	P ²

Comments:

- 1) Time stamp is present.
- 2) The length of the text message is limited by the SwMI to 100 characters.

Table 2: Tests performed during the April 2002 test session

Abbreviations:

- : Not performed.
- N/A: Not applicable
- P: Pass
- F: Fail
- I: Inconclusive
- NTA: No test case available

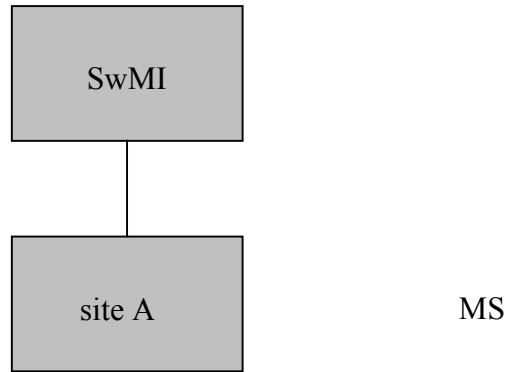
Teltronic MDT-400 Terminal	Frequentis/Damm Motorola Compact TETRA CTS200 ¹	Frequentis/Damm Motorola Compact TETRA CTS100 ²
7 User defined data type 1, 2 and 3 (Text case Number index)		
7 Type 1	NTA	NTA
7 Type 2	NTA	NTA
7 Type 3 (5.1)	P	P
8 User defined data type 4 without SDS-TL		
	NTA	NTA
8.1 User defined data type 4 with SDS-TL		
8.1.2 MS to MS, Standard Report	NTA	NTA
8.1.2 MS to MS, Standard Report with Store and Forward	NTA	NTA
8.1.3 MS to MS, Short Report	NTA	NTA
8.2 Text messaging		
8.2.1.4 No acknowledgement requested (5.3)	P	P
8.2.1.4 MS to MS, Standard report (5.2)	P ³	-
8.2.2 MS to MS, Short report (5.2)	-	P

Comments:

- 1) The terminal is tested in low frequency band (380-400 MHz).
- 2) The terminal is tested in high frequency band (410-430 MHz).
- 3) Both Delivery Report and Consumed Report are exchanged between the Teltronic MS and the destination MS.

Test setup description

All tests except the cell re-selection test are carried out on a single site system with one carrier using standard antenna configurations.



For the cell re-selection test, an additional site is activated and the roaming MS is connected to the system via RF cables as illustrated below.

