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Terrestrial Trunked Radio (TETRA);
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Part 4: Protocol testing specification for
Direct Mode Operation (DMO);
Sub-part 12: Test Suite Structure and Test Purposes (TSS&TP)
for Repeater type 2

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the ETSI Project Terrestrial Trunked Radio (TETRA), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS consists of 5 parts as follows:

Part 1: "Radio";

Part 2: "Protocol testing specification for Voice plus Data (V+D)";

Part 3: "Protocol testing specification for Packet Data Optimized (PDO)" (DE/TETRA-04009-3);

Part 4: "Protocol testing specification for Direct Mode Operation (DMO)";

Part 5: "Security".

| Proposed transposition dates | | | |
|---|---------------------------------|--|--|
| Date of latest announcement of this ETS (doa): | 3 months after ETSI publication | | |
| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 6 months after doa | | |
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1 Scope

ETS 300 394-4 contains the Test Suite Structure (TSS) and Test Purposes (TPs) to test the TETRA Direct Mode Operation (DMO) protocols. This ETS is divided into several parts, each one dealing with a different set of layer 3 and layer 2 DMO protocols. This present part 4-12 deals with TSS&TP for Direct Mode Repeater type 2 (DM-REP2) Air Interface protocol, data link layer 2 only, while part 4-1 deals with TSS&TP for DM MS to MS protocol and part 4-11 deals with DM-MS operating through Repeater type 2 (MS-REP2) Air Interface protocol

Testing of security features is outside the scope of this ETS.

The objective of this test specification is to provide a basis for approval tests for TETRA equipment giving a high probability of air interface inter-operability between different manufacturer's TETRA equipment.

The ISO/IEC standard for the methodology of conformance testing, ISO/IEC 9646-1 [3] and ISO/IEC 9646-2 [4], as well as the ETSI methodology for conformance testing, ETS 300 406 [5], are used as the basis for the test methodology.

2 References

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

| [1] | ETS 300 396-7 (1999): "TETRA; Technical requirements for Direct Mode Operation (DMO); Part 7: Type 2 repeater Air Interface". |
|-----|---|
| [2] | ETS 300 396-8-4 (1999): "TETRA; Direct Mode Operation (DMO); Part 8: Protocol Implementation Conformance Statement (PICS) proforma specification; Part 8-4: Type 2 repeater Air Interface". |
| [3] | ISO/IEC 9646-1 (1995): "Information technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 1: General Concepts". (See also CCITT Recommendation X.290). |
| [4] | ISO/IEC 9646-2 (1995): "Information technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 2: Abstract Test Suite Specification". (See also CCITT Recommendation X.291). |
| [5] | ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology". |
| [6] | ETS 300 396-8-2: "Terrestrial Trunked Radio (TETRA); Direct Mode Operation (DMO); Part 8: Protocol Implementation Conformance Statement (PICS) proforma specification; Sub-part 2: Type 1 repeater Air Interface (AI)". |

3 Definitions and abbreviations

3.1 TETRA definitions

For the purposes of this ETS, the definitions given in ETS 300 396-7 [1] apply.

3.2 ISO/IEC 9646 definitions

For the purposes of this ETS the following ISO/IEC 9646-1 [3] definitions apply:

ICS Implementation Conformance Statement

IUT Implementation Under Test

IXIT Implementation eXtra Information for Testing
PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

3.3 TETRA abbreviations

For the purposes of this ETS the following TETRA abbreviations apply:

CM Circuit Mode

DMCC Direct Mode Call Control
DMO Direct Mode of Operation
FCS Frame Check Sequence

ITSI Individual TETRA Subscriber Identity

MAC Medium Access Control MNI Mobile Network Identity

MS Mobile Station

NWK Network. Layer 3 of the TETRA protocol stack

RX Receiver

SDS Short Data Services
SDU Service Data Unit
TX Transmitter

3.4 ISO/IEC 9646 abbreviations

For the purposes of this ETS the following ISO/IEC 9646-1 [3] abbreviations apply:

IUT Implementation Under Test

PDU Protocol Data Unit

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

TP Test Purpose TSS Test Suite Structure

4 Test Suite Structure (TSS)

4.1 MAC layer test groups

The first level of the MAC test groups separates the MAC test suite in functional test groups: CA, BV, BI and TI.

The following list defines the MAC layer test group names and identifiers:

- DM-REP2 MAC layer (DMO DMREP2 MAC)
 - Capability tests (CA)
 - Valid behaviour tests (BV)
 - Invalid behaviour tests (BI)
 - Timer tests (TI)

4.2 Test group description

Capability (CA) tests provide limited testing that the observable capabilities of the IUT are in accordance with the conformance requirements and the additional capabilities claimed in the PICS/PIXIT.

The Valid Behaviour (BV) group tests an IUT in response to valid behaviour of the test system. "Valid" means that a test event is syntactically and contextually correct. All test cases in the valid behaviour group are intended to verify as thoroughly as possible the various functions of the protocol.

Different timers are defined to supervise the various state transitions. The Timer (TI) test group is intended to verify that the IUT is reacting properly to an expiry of one of the timers or to a counter mismatch.

5 Introduction to Test Purposes (TPs)

The test purposes are defined in clause 6 of this document for MAC layer.

5.1 Test purpose definition conventions

Each TP is described using text presented in a table.

The table contains the following information:

Table 1

| TP-Name The TP name is a u specified according conventions defined below. (it is also the corresponding test of | to the TP naming I in the subclause name of the | Requirement ref: reference to the paragraph number of specification ETS 300 396-7 [1] stating this conformance requirement. For example: ETS 300 396-7 [1], 6.2.5.1 |
|---|---|---|
| Purpose: | purpose of the test itself, indicating for example the test performed against a requirement of the protocol, described by this test purpose. Example: test of changeover initiated from RX reservation state | |
| Selection cond: | expression based on ETS 300 396-8-4 [2] PICS statements, used to select or deselect the corresponding test case according to the options of the implementation. | |
| Test description | body of the test | |
| Pass criteria | visible action to be observed at PCO to declare that the IUT passes the test and conforms to the specifications | |
| Preamble: | "None" or name of the preamble procedure bringing the IUT from idle state to the state required to run the test. | |
| Postamble: | "None" or name of the postamble to bring the IUT back to idle state. | |

5.2 Test purpose naming conventions

The identifier of a test purpose is built according to table 2:

Table 2: Test purpose naming convention

| DMO/ <ts>/<tt>/<nn></nn></tt></ts> | | | |
|------------------------------------|----------------------|--|--|
| <ts> = test suite type</ts> | DMREP2 | DM Repeater type 2 | |
| <tt> = Type of testing</tt> | CA BV BI TI | Capability Tests Valid Behaviour Tests Invalid Behaviour Tests Timer expiry and counter mismatch tests | |
| <nn> = sequential number</nn> | 01-99 | Test Purpose Number | |

5.3 Selection expressions

A test case, based on a test purpose described here, can be selected or deselected from the test suite, according to the evaluation of selection expressions which reflect the capabilities supported or not by the implementation under test.

6 DM-REP2 test purposes.

In this test purpose description, the following test configuration is defined: the IUT is a DM-REP2. The main tester is a MS connected to a Repeater type 2 (MS-REP2) and it plays the role of the master of the call. A parallel tester plays the role of the slave. Most of the tests verify that the repeater re-transmits properly what is received from the main tester to the parallel tester, and from the parallel tester to the main one.

6.1 DM-REP2 MAC layer

6.1.1 DM-REP2 MAC capability tests

Test group objective: To test MAC basic capability

- fill bit mechanism.

| DMO_MSREP2_MAC | _CA_01 | Reference: ETS 300 396-7 [1], 9.5.3.2 | | |
|---|---|---|--|--|
| Purpose | Fill bit addition and | Fill bit addition and deletion mechanism. | | |
| Test description | The main tester initiates a CM or SDS call according to IUT capabilities, by transmitting to the IUT a DMAC-SYNC PDU containing the appropriate PDU | | | |
| Pass criteria | | re-transmits the DMAC-SYNC PDU containing identical I tester, meaning that the IUT fill bit deletion and addition properly. | | |
| Selection ETS 300 396-8-2 [6] | A.32/1 or | IUT supports circuit mode call | | |
| Preamble | A.32/2 None | IUT supports Short Data Services | | |
| Postamble | Free DM channel | | | |

Presence signal.

| DMO_MSREP2_MAC_ | CA_02 | Reference: ETS 300 396-7 [1], 9.4.5.1 |
|-------------------------------------|--------------------|--|
| Purpose | Check sending of | presence signal. |
| Test description The main tester is | | connected to the DM REP2 and the DM channel is free |
| | (both channel A ar | d channel B are free) |
| Pass criteria | | sends at irregular intervals between DT253 and DT254 |
| | | NC PDU, in the DSB, in all four slots of DN253 consecutive |
| | frames, channel us | sage set to 00, channel state = 00 |
| Selection | A.40/2 | IUT sends DPRES-SYNC |
| ETS 300 396-8-2 [6] | | |
| Preamble | None | |
| Postamble | None | |

6.1.2 DM-REP2 MAC valid behaviour tests

| DMO_DMREP2_MAC_ | BV_01 Reference: ETS 300 396-7 [1], 9.4.2.2.3, 9.5.1.1 |
|---------------------|--|
| | |
| Purpose | Check DM-REP channel surveillance when idle at DM-MS call set-up; Check |
| | retransmission of signalling message received from master DM-MS |
| Test description | The tester initiates a CM or SDS call, according to IUT capabilities. It |
| | translates into a DMAC_SYNC PDU with master/slave link flag set to 1, |
| | communication type element=01, 10 bit repeater address. |
| Pass criteria | Verify that the IUT accepts the call and re-transmits the signalling information |
| | (It retransmits the DMAC-SYNC PDU containing the DM-SETUP or |
| | DM-SETUP PRES or DM-SDS DATA or DM-SDS UDATA SDU, with |
| | master/slave link flag set to 0). |
| Selection | A.32/1 IUT supports circuit mode call |
| ETS 300 396-8-4 [2] | or |
| | A.32/2 IUT supports Short Data Services |
| Preamble | None |
| Postamble | Free DM channel |

| DMO_DMREP2_MAC_ | BV_01b | Reference: ETS 300 396-7 [1], 9.4.2.2, 9.4.4 | | |
|---------------------|--|--|--|--|
| Purpose | Check retransmission of signalling message received from master DM-MS for | | | |
| | a second call, and | monitoring of the two other time slots in master channel | | |
| Test description | The tester initiates a CM call,. It translates into a DMAC_SYNC PDU with master/slave link flag set to 1, communication type element=01, 10 bit repeater address. The IUT accepts the call and re-transmits the signalling information. The tester initiates a second CM call. | | | |
| Pass criteria | information (It retra | accepts the second call and re-transmits the signalling ansmits the DMAC-SYNC PDU containing the DM-SETUP ES, with master/slave link flag set to 0). | | |
| Selection | A.32/1 | IUT supports circuit mode call | | |
| ETS 300 396-8-4 [2] | | | | |
| Preamble | None | | | |
| Postamble | Free both DM char | nnels | | |

| DMO_DMREP2_MAC_ | BV_02 Reference: ETS 300 396-7 [1], 9.4.1.1, 9.5.2.1 |
|---|--|
| Purpose | Check retransmission of signalling message received from a slave DM-MS |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the IUT to the parallel tester. The parallel tester answers with DM-CONNECT contained in a DMAC-SYNC with master/slave link flag set to 0, communication type 01, its own 10 bit repeater address |
| Pass criteria | Verify that the IUT re-transmits to the main tester the DMAC-SYNC containing DM-CONNECT where master/slave flag is set to 1, and using the same two time slots on this slave channel as on the master channel |
| Selection ETS 300 396-8-4 [2] | A.32/1 IUT supports circuit mode call |
| Preamble | None |
| Postamble | Free DM channel |

| DMO_DMREP2_MAC_ | BV_02b Reference: ETS 300 396-7 [1], 9.4.4, 9.5.2.1 | | |
|---------------------|--|--|--|
| Purpose | Check retransmission of signalling message relative to a second call, | | |
| | received from a slave DM-MS | | |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the | | |
| | IUT to the parallel tester. The parallel tester answers with DM-CONNECT | | |
| | contained in a DMAC-SYNC with master/slave link flag set to 0, | | |
| | communication type 01, its own 10 bit repeater address. The IUT re-transmits | | |
| | to the main tester the DMAC-SYNC containing DM-CONNECT. The main | | |
| | tester initiates a second DM-SETUP PRES which is re-transmitted by the IUT | | |
| | to the parallel tester. The parallel tester answers with DM-CONNECT | | |
| Pass criteria | Verify that the IUT re-transmits to the main tester a DMAC-SYNC containing | | |
| | DM-CONNECT for this second call, where master/slave flag is set to 1 | | |
| Selection | A.32/1 IUT supports circuit mode call | | |
| ETS 300 396-8-4 [2] | | | |
| Preamble | None | | |
| Postamble | Free DM channel | | |

| DMO_DMREP2_MAC_BV_03 | | Reference: ETS 300 396-7 [1], 9.4.4.1, 9.6.2.2 |
|---|-----------------------|---|
| Purpose Check DM-REP pi | | ocedure: set up with presence check |
| Test description The main tester ini | | tiates a DM-SETUP PRES which is re-transmitted by the |
| | IUT to the parallel t | ester. The parallel tester answers with DM-CONNECT |
| Pass criteria Verify that the IUT | | re-transmits the DM-CONNECT to the main tester |
| Selection | A.32/1 | IUT supports circuit mode call |
| ETS 300 396-8-4[2] | | |
| Preamble | None | |
| Postamble | Free DM channel | |

| DMO_DMREP2_MAC_ | BV_04 | Reference: ETS 300 396-7 [1], 9.4.4.1, 9.6.2.2 |
|---------------------|---------------------|---|
| Purpose | Check DM-REP pro | ocedure: set up with presence check |
| Test description | | tiates a DM-SETUP PRES which is re-transmitted by the ester. The parallel tester answers with DM-DISCONNECT |
| Pass criteria | Verify that the IUT | re-transmits the DM-DISCONNECT to the main tester |
| Selection | A.32/1 | IUT supports circuit mode call |
| ETS 300 396-8-4 [2] | | |
| Preamble | None | |
| Postamble | Free DM channel | |

| DMO_DMREP2_MAC_ | BV_05 Reference: ETS 300 396-7 [1], 9.4.4.1, 9.6.2.2 |
|---|---|
| Purpose | Check DM-REP procedure: set up with presence check |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the IUT to the parallel tester. The parallel tester answers with DM-CONNECT. The IUT re-transmits the DM-CONNECT to the main tester, which issues a DM-CONNECT ACK |
| Pass criteria | Verify that the IUT re-transmits DM-CONNECT ACK to the parallel tester and then retransmits the traffic |
| Selection ETS 300 396-8-4 [2] | A.32/1 IUT supports circuit mode call |
| Preamble | None |
| Postamble | Free DM channel |

| DMO_DMREP2_MAC_ | PV 06 Poteronos, ETS 200 206 7 [4] 0.4.4.4.0.6.2.2 |
|---|---|
| | |
| Purpose | Check DM-REP procedure: set up with presence check |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the IUT to the parallel tester. The parallel tester answers with DM-CONNECT. The IUT re-transmits the DM-CONNECT to the main tester, which issues a DM-RELEASE |
| Pass criteria | Verify that the IUT re-transmits DM-RELEASE to the parallel tester and then returns the channel to idle |
| Selection ETS 300 396-8-4 [2] | A.32/1 IUT supports circuit mode call |
| Preamble | None |
| Postamble | None |

| DMO_DMREP2_MAC_ | BV_07 | Reference: ETS 300 396-7 [1], 9.5.1.1.2, 9.6.2.1 |
|---|---|--|
| Purpose | | ocedure: set up without presence check |
| Test description | The main tester init | tiates a DM-SETUP which is re-transmitted by the IUT to |
| | Verify that the IUT slots of DN232 fran | re-transmits the DM-SETUP to the parallel tester in all four mes |
| Selection ETS 300 396-8-4 [2] | A.32/1 | IUT supports circuit mode call |
| Preamble | None | |
| Postamble | Free DM channel | |

| DMO_DMREP2_MAC_ | BV_08 Reference: ETS 300 396-7 [1], 9.5.1.1.3 |
|---------------------|---|
| Purpose | Re-transmission procedure: DM_SDS DATA or DM_SDS UDATA |
| Test description | The main tester initiates a DM_SDS DATA or DM_SDS UDATA which is |
| | re-transmitted by the IUT to the parallel tester. |
| Pass criteria | Verify that the IUT re-transmits the DM_SDS DATA or DM_SDS UDATA to |
| | the parallel tester in all four slots of DN233 frames |
| Selection | A.32/2 IUT supports Short Data Services |
| ETS 300 396-8-4 [2] | |
| Preamble | None |
| Postamble | None |

| DMO_DMREP2_MAC_ | BV_09 | Reference: ETS 300 396-7 [1], 9.5.1.1.3 |
|---|----------------|--|
| Purpose | Fragmentation. | |
| Test description | | tiates a SDS by transmitting DM-SDS DATA or DM-SDS data type 2, 3 or 4 in order to generate a fragmented |
| Pass criteria | | allel tester receives from the IUT: DMAC-SYNC with set to value 1, followed by n times DMAC-FRAG then -END |
| Selection ETS 300 396-8-4 [2] | A.32/2 | Short Data Service (SDS) |
| Preamble | None | |
| Postamble | None | |

| DMO_DMREP2_MAC_ | BV_10 | Reference: ETS 300 396-7 [1], 9.5.1.1.4 |
|------------------|---------------------|---|
| Purpose | retransmission of n | nessage. |
| Test description | The main tester ini | tiates a command such as DM-CONNECT |
| | command without | re-transmits the DMAC_SYNC PDU containing this changing slot, frame numbers and frame countdown, only lik flag is changed to 0. |
| Selection | None | |
| Preamble | None | |
| Postamble | None | |

6.1.3 DM-REP MAC invalid behaviour tests

| DMO_DMREP2_MAC_ | BI_01 | Reference: ETS 300 396-7 [1], 9.4.2.2.1, 9.4.2.2.3 |
|---------------------|--|--|
| Purpose | Check DM-REP ch | annel surveillance when idle at DM-MS call set-up, wrong |
| - | address | |
| Test description | | a CM or SDS call, according to IUT capabilities, but not pit repeater address. |
| Pass criteria | Verify that the IUT information to the p | ignores the call and does not re-transmit the signalling parallel tester. |
| Selection | A.32/1 | IUT supports circuit mode call |
| ETS 300 396-8-4 [2] | or | |
| | A.32/2 | IUT supports Short Data Services |
| Preamble | None | |
| Postamble | Free DM channel | |

| DMO_DMREP2_MAC_ | BI_02 Reference: ETS 300 396-7 [1], 9.5.2.1 |
|---------------------|---|
| Purpose | Check absence of retransmission of signalling message received from a |
| • | slave DM-MS, if wrong address |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the |
| _ | IUT to the parallel tester. The parallel tester answers with DM-CONNECT |
| | contained in a DMAC-SYNC with master/slave link flag set to 0, |
| | communication type 01, BUT without its own 10 bit repeater address |
| Pass criteria | Verify that the IUT does not re-transmit the DMAC-SYNC where master/slave |
| | flag is set to 1 to the main tester |
| Selection | A.32/1 IUT supports circuit mode call |
| ETS 300 396-8-4 [2] | |
| Preamble | None |
| Postamble | Free DM channel |

6.1.4 DM-REP MAC timer tests

| DMO_DMREP2_MAC_ | TI_01 | Reference: ETS 300 396-7 [1], 9.4.2.3, 9.6.2.3 |
|---------------------|---|---|
| Purpose | Check DM-REP channel surveillance when active during a call | |
| Test description | | a CM or SDS call, according to IUT capabilities, but does |
| _ | not send DM-OCC | UPIED within time DT256 |
| Pass criteria | Verify that the IUT | assumes the call is lost and returns to idle |
| Selection | A.32/1 | IUT supports circuit mode call |
| ETS 300 396-8-4 [2] | or | |
| | A.32/2 | IUT supports Short Data Services |
| Preamble | None | |
| Postamble | None | |

| DMO_DMREP2_MAC_ | TI_02 | Reference: ETS 300 396-7 [1], 9.4.2.3 |
|------------------|-----------------------|--|
| Purpose | Check DM-REP cha | annel surveillance when active during a call |
| Test description | | hannel reservation signalling not addressed to the |
| _ | DM-REP to make the | he channel appear RESERVED (see 9.4.2.1), but does not |
| | send DM-RESERV | ED within time DT258 |
| Pass criteria | Verify that the IUT a | assumes the call is lost and returns to idle |
| Selection | None | |
| Preamble | None | |
| Postamble | None | |

| DMO_DMREP2_MAC_ | TI_03 Reference: ETS 300 396-7 [1], 9.6.2.2 |
|---|--|
| Purpose | Check DM-REP procedure: set up with presence check, DT250 timer |
| Test description | The main tester initiates a DM-SETUP PRES which is re-transmitted by the IUT to the parallel tester. The parallel tester answers with DM-CONNECT. The IUT re-transmits the DM-CONNECT to the main tester, which does not issue a DM-CONNECT ACK within DT250 after transmission of DM_SETUP PRES |
| Pass criteria | Verify that the IUT returns to idle as it assumes that the call failed |
| Selection ETS 300 396-8-4 [2] | A.32/1 IUT supports circuit mode call |
| Preamble | None |
| Postamble | None |

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Annex A (informative): Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ETS 300 396-1: "Terrestrial Trunked Radio (TETRA); Technical requirements for Direct Mode Operation (DMO); Part 1: General network design".

History

| Document history | | | |
|------------------|----------------|------------|--------------------------|
| October 1999 | Public Enquiry | PE 200007: | 1999-10-20 to 2000-02-18 |
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