



TECHNICAL SPECIFICATION

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Conformance testing for Mode 1 of
the digital Private Mobile Radio (dPMR™);
Part 3: Interoperability Test Suite Structure and
Test Purposes (TSS&TP) specification**

Reference

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Contents

Intellectual Property Rights	4
Foreword.....	4
Modal verbs terminology.....	4
Executive summary	4
1 Scope	5
2 References	5
2.1 Normative references	5
2.2 Informative references.....	5
3 Abbreviations	6
4 Test Suite Structure (TSS).....	6
5 Test Purposes (TP)	7
5.0 Preamble.....	7
5.1 Framing	7
5.1.1 Addressing	7
5.1.1.1 All Call.....	7
5.1.1.2 Dialling Plan	7
5.1.1.3 Talking Party ID.....	12
5.1.2 Base Station framing.....	13
5.1.3 Channel Access.....	17
5.1.3.0 General	17
5.1.3.1 OACSU	19
5.1.3.2 PTT Call.....	20
5.1.4 END frame.....	20
5.1.5 Message frame	21
5.1.5.1 Message Information field	21
5.1.6 Payload	21
5.1.6.1 Packet data	21
5.1.6.2 Short data	21
5.1.6.3 T1 data	24
5.1.6.4 T2 data	25
5.1.6.5 Voice.....	26
5.1.6.5.1 Voice and attached data.....	26
5.1.6.5.2 Late entry.....	27
5.1.6.5.3 Slow user data	28
5.1.7 Power save	29
5.1.8 Superframe.....	29
5.1.8.1 Traffic channel	29
5.1.8.2 Voice TCH	29
Annex A (normative): dPMR™ interoperability test configurations.....	30
A.1 Generic test configurations.....	30
A.1.1 Mode 1 equipment.....	30
A.1.2 Mode 2 equipment - MS.....	30
A.1.3 Mode 2 equipment - BS.....	30
A.1.3.1 BS2 general configuration	30
A.1.3.2 BS2 Limited Mode	30
A.1.3.3 BS2 Transparent Mode	30
Annex B (normative): dPMR™ TPLan interoperability testing user definitions.....	31
Annex C (informative): Change History	34
History	35

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document is part 3 of a multi-part deliverable covering the Conformance testing for Modes 1 and 2 of the digital Private Mobile Radio (dPMR™) as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS) proforma";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP) specification";
- Part 3: "Interoperability Test Suite Structure and Test Purposes (TSS&TP) specification".**

Modal verbs terminology

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Executive summary

The present document describes the interoperability test requirements for digital Private Mobile Radio compliant to the ETSI TS102 658 standard.

It is intended to be used in conjunction with the Protocol Implementation Conformance standard (PICS) ETSI TS 102 726-1 [i.2] which describes the applicable functions of the equipment being evaluated. The actual test procedure and the required test result for each of those functions can be found in the present document.

1 Scope

The present document specifies the interoperability Test Purposes (TPs) for the Digital Private Mobile Radio (dPMR™) standard, ETSI TS 102 658 [1]. TPs are defined using the TPLan notation described in ETSI ES 202 553 [i.1]. Test purposes have been written based on the test specification framework described in ETSI TS 102 351 [2] and based on the methodology defined in ISO/IEC 9646-2 [3].

2 References

2.1 Normative references

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The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 102 658 : "Digital Private Mobile Radio (dPMR) using FDMA with a channel spacing of 6,25 kHz".
- [2] ETSI TS 102 351 (V2.1.1): "Methods for Testing and Specification (MTS); Internet Protocol Testing (IPT); IPv6 Testing: Methodology and Framework".
- [3] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".
- [4] ETSI TS 102 587-3: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Peer-to-Peer Digital Private Mobile Radio; Part 3: Requirements catalogue".

2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI ES 202 553: "Methods for testing and Specification (MTS); TPLan: A notation for expressing test Purposes".
- [i.2] ETSI TS 102 726-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Conformance testing for Mode 1 of the digital Private Mobile Radio (dPMR™); Part 1: Protocol Implementation Conformance Statement (PICS) proforma".