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Part 2: PT Abstract Test Suite (ATS)**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunication Standards Institute (ETSI).

This second edition has been produced to correct certain functions and therefore provide compatibility between TBR 011, DECT Public Access Profile (PAP) and the DECT General Access Profile (GAP).

This ETS presents the Abstract Test Suites (ATS) for the Digital European Cordless Telecommunications (DECT) PAP described in Tree and Tabular Combined Notation (TTCN) for the Portable radio Termination (PT).

Details of the DECT Common Interface may be found in ETS 300 175 Parts 1 - 9 [11] to [19].

The PAP test specification ETS comprises seven parts:

- Part 1: Overview.
- Part 2: Portable radio Termination (PT) Abstract Test Suite (ATS) - versions available in both ISO 9646 TTCN.MP format (electronic) and TTCN.GR format (paper).**
- Part 3: Portable radio Termination (PT) Protocol Implementation Conformance Statement (PICS) proforma.
- Part 4: Portable radio Termination (PT) Protocol Implementation eXtra Information for Testing (PIXIT) proforma.
- Part 5: Fixed radio Termination (FT) Abstract Test Suite (ATS) - versions available in both ISO 9646 TTCN.MP format (electronic) and TTCN.GR format (paper).
- Part 6: Fixed radio Termination (FT) Protocol Implementation Conformance Statement (PICS) proforma.
- Part 7: Fixed radio Termination (FT) Protocol Implementation eXtra Information for Testing (PIXIT) proforma.

Proposed transposition dates	
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1 Scope

This European Telecommunication Standard (ETS) specifies the Portable radio Termination (PT) Abstract Test Suite (ATS) for the Digital European Cordless Telecommunications (DECT) Public Access Profile (PAP) test specification.

The ATS describes a set of tests which can be converted using commonly available tools into an executable test suite. For the protocol tests, it consists of TTCN tables comprising an overview section, a declarations section, a constraints section and a dynamic behaviour section. For the non-protocol tests (real-effects), it describes the test method using natural language. The real effects test procedures are contained in ETS 300 323-1 [5] annex C.

The Protocol Implementation Conformance Statement (PICS) proforma shows a checklist of all mandatory, optional and conditional features, elements of procedure, parameters, options, timers, multi-layer dependencies and other capabilities identified in the protocol specification. Once completed by the manufacturer, this shows which parts of the PAP static conformance requirements the manufacturer has implemented.

The Protocol Implementation eXtra Information for Testing (PIXIT) proforma is a questionnaire for the manufacturer to complete showing all the detailed information required by the test laboratory, for example, methods of feature invocation, real timer values and identities.

2 Normative references

This ETS incorporates, by dated or 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] ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework, Part 1: General Concepts".
- [2] ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework, Part 2: Abstract Test Suite Specification".
- [3] ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework, Part 3: The Tree and Tabular Combined Notation".
- [4] ISO/IEC 9646-6: "Information Technology - OSI Conformance Testing Methodology and Framework, Part 6: Protocol Profile test specification".
- [5] ETS 300 323-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 1: Overview".
- [6] ETS 300 323-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 3: Portable Radio Termination Protocol Implementation Conformance Statement (PICS) proforma".
- [7] ETS 300 323-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 4: Portable Radio Termination Protocol Implementation eXtra Information for Testing (PIXIT) proforma".
- [8] ETS 300 323-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 5: Fixed Radio Termination Abstract Test Suite".

- [9] ETS 300 323-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 6: Fixed Radio Termination Protocol Implementation Conformance Statement (PICS) proforma".
- [10] ETS 300 323-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT), Public Access Profile (PAP) test specification Part 7: Fixed Radio Termination Protocol Implementation eXtra Information for Testing (PIXIT) proforma".
- [11] ETS 300 175-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 1: Overview".
- [12] ETS 300 175-2: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 2: Physical layer".
- [13] ETS 300 175-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 3: Medium access control layer".
- [14] ETS 300 175-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 4: Data link control layer".
- [15] ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 5: Network layer".
- [16] ETS 300 175-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 6: Identities and addressing".
- [17] ETS 300 175-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 7: Security features".
- [18] ETS 300 175-8: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 8: Speech coding and transmission".
- [19] ETS 300 175-9: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Part 9: Public Access Profile".

3 Definitions, symbols and abbreviations

For the purposes of this ETS see ETS 300 323-1 [5], for a complete list of definitions, symbols and abbreviations.

Annex A (normative): Abstract Test Suite (ATS)

The ATS is written in TTCN according to ISO/IEC 9646-3 [3].

As the ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the contents table. The ATS itself contains a Test Suite Overview (TSO) part which provides additional information and references about the ATS.

A.1 The graphical ATS

The graphical ATS is contained in electronic form (TTCN.PS format) in a Postscript print text file (DE203232.PS) and is on the diskette attached to this ETS on the last page.

A.2 The machine processable ATS

The electronic form of the machine processable file (TTCN MP format) corresponding to this ATS is contained in an ASCII text file (DE203232.MP) and is on the diskette attached to this ETS on the last page.

Annex B (informative): Bibliography

EWOS / ETSI Project Team No. 5: "Project Report and Technical Report. OSI Conformance Testing Methodology and Procedures in Europe".

ETR 021 (1991): "Advanced Testing Methods (ATM); Tutorial on protocol conformance testing (Especially OSI standards and profiles)".

ETR 022 (1991): "Advanced Testing Methods (ATM); Vocabulary of terms used in communication protocols conformance testing".

History

Document history	
April 1994	First Edition
September 1994	Unified Approval Procedure UAP 19: 1994-09-19 to 1995-01-13
June 1995	Second Edition
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