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**Radio Equipment and Systems (RES);
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Generic Access Profile (GAP);
Profile Test Specification (PTS);
Part 1: Summary**

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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 Telecommunications Standards Institute (ETSI).

The General Access Profile (GAP) Profile Test Specification (PTS) comprises three parts:

Part 1: "Summary";

Part 2: "Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)";

Part 3: "Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".

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Date of adoption of this ETS:	16 August 1996
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1 Scope

This ETS specifies the Profile Test Specification (PTS) summary referencing all the ETSs necessary for the conformance testing of the DECT Generic Access Profile (GAP).

This GAP PTS summary together with the ETSs it references constitute the GAP PTS.

This ETS has the following structure:

- clause 4 contains general information relative to the profile including references to the related ETSs.
- clause 5 contains a summary and references to the ETSs relevant for each of DECT protocol layers to be tested.

2 Normative 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 300 175-1: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [2] ETS 300 175-2: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer".
- [3] ETS 300 175-3: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [4] ETS 300 175-4: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [5] ETS 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [6] ETS 300 175-6: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [7] ETS 300 175-7: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [8] ETS 300 175-8: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech coding and transmission".
- [9] ETS 300 175-9: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 9: Public Access Profile (PAP)".
- [10] ETS 300 444 (1995): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

- [11] ISO/IEC 9646-1 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [12] ISO/IEC 9646-2 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [13] ISO/IEC 9646-3 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [14] ISO/IEC 9646-4 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realisation".
- [15] ISO/IEC 9646-5 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the Conformance Assessment process".
- [16] ISO/IEC 9646-6 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol Profile Test Specification".
- [17] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance statement".
- [18] ISO/IEC 9646-3 DAM 1 (1993): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN) - Amendment 1: TTCN extensions"
- [19] ISO/IEC 9646-3 DAM 2 (1993): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN) - Amendment 2: Further TTCN extensions" .
- [20] I-ETS 300 176: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Approval test specification".
- [21] ETS 300 476-1: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 1: Network (NWK) layer - Portable radio Termination (PT)".
- [22] ETS 300 497-1: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 1: Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer".
- [23] ETS 300 497-2: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 2: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Portable radio Termination (PT)".
- [24] ETS 300 497-3: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination (FT)".

- [25] ETS 300 497-4: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer".
- [26] ETS 300 497-5: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".
- [27] ETS 300 497-6: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 6: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Portable radio Termination (PT)".
- [28] ETS 300 497-7: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 7: Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio Termination (PT)".
- [29] ETS 300 497-8: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 8: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Fixed radio Termination (FT)".
- [30] ETS 300 497-9: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 9: Abstract Test Suite (ATS) for Network (NWK) layer - Fixed radio Termination (FT)".
- [31] ETS 300 474-1: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".
- [32] ETS 300 494-2: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) - Portable radio Termination (PT)".
- [33] ETS 300 494-3: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

- definitions in ETS 300 175 Parts 1 to 8 [1] to [8];
- definitions in ISO/IEC 9646 Parts 1 to 7 [11] to [19].

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CC	Call Control entity
CI	Common Interface
DECT	Digital Enhanced Cordless Telecommunications
DLC	Data Link Control layer
FT	Fixed radio Termination
GAP	Generic Access Profile
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
LCE	Link Control Entity
MAC	Medium Access Control layer
MM	Mobility Management entity
PH	Physical layer
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PSTS	Profile Specific Test Specification
PT	Portable radio Termination
PTS	Profile Test Specification
SCS	System Conformance Statement
XRL	IXIT Requirements List

4 Profile identification

Table 1

No.	Profile identification	
1	Profile identifier	Generic Access Profile
2	Profile specification	ETS 300 444 [10]
3	Profile ICS proforma	ETS 300 474 [38]
4	PSTS	ETS 300 494-2 [32] ETS 300 494-3 [33]
5	Profile IXIT proforma	ETS 300 494-2 [32] ETS 300 494-3 [33]
6	SCS proforma	ETS 300 494-2 [32] ETS 300 494-3 [33]
Comments:		

5 Elements of the PTS

5.1 Conformance testing for NWK layer

Table 2

No.	Protocol	
1	Protocol identification	ETS 300 175-5 [5]
2	PICS proforma	ETS 300 476-1 [21]
3	TSS and TP	ETS 300 497-6 [27] ETS 300 497-8 [29]
4	ATS	ETS 300 497-7 [28] ETS 300 497-9 [30]
5	Applicability of ATS	Basic speech covered. Basic services and procedures concerning CC, MM and LCE entities covered
6	ATM	Remote
7	Partial PIXIT	ETS 300 497-7 [28] ETS 300 497-9 [30]

Table 3

No	Profile	
1	Profile ICS proforma	ETS 300 474 [38]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	ETS 300 494-2 [32] and ETS 300 494-3 [33]
6	Modified selection expressions	No

5.2 Conformance testing for DLC layer

Table 4

No.	Protocol	
1	Protocol identification	ETS 300 175-4 [4]
2	PICS proforma	ETS 300 476-1 [21]
3	TSS and TP	ETS 300 497-4 [25]
4	ATS	ETS 300 497-5 [26]
5	Applicability of ATS	
6	ATM	Remote
7	Partial PIXIT	ETS 300 497-5 [26]

Table 5

No	Profile	
1	Profile ICS proforma	ETS 300 474 [38]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	ETS 300 494-2 [32] and ETS 300 494-3 [33]
6	Modified selection expressions	No

5.3 Conformance testing for MAC layer

Table 6

No.	Protocol	
1	Protocol identification	ETS 300 175-3 [3]
2	PICS proforma	ETS 300 476-1 [21]
3	TSS and TP	ETS 300 497-1 [22]
4	ATS	ETS 300 497-2 [23] ETS 300 497-3 [24]
5	Applicability of ATS	
6	ATM	Remote (modified)
7	Partial PIXIT	ETS 300 497-2 [23] ETS 300 497-3 [24]

Table 7

No	Profile	
1	Profile ICS proforma	ETS 300 474 [31]
2	Additional TSS and TP	No
3	ATM	Remote (modified)
4	Additional test cases	No
5	Partial Profile IXIT proforma	ETS 300 494-2 [32] and ETS 300 494-3 [33]
6	Modified selection expressions	No

5.4 Conformance testing for PH layer

Table 8

No.	Protocol	
1	Protocol identification	ETS 300 175-2: Physical layer [2]
2	PICS proforma	ETS 300 476-1 [21]
3	TSS and TP	I-ETS 300 176 [20]
4	ATS	I-ETS 300 176 [20]
5	Applicability of ATS	General terminal attachment requirements, basic telephony applications
6	ATM	-
7	Partial PIXIT	-

Table 9

No	Profile	
1	Profile ICS proforma	ETS 300 474 [31]
2	Additional TSS and TP	ETS 300 494-2 [32] and ETS 300 494-3 [33]
3	ATM	-
4	Additional test cases	ETS 300 494-2 [32] and ETS 300 494-3 [33]
5	Partial Profile IXIT proforma	ETS 300 494-2 [32] and ETS 300 494-3 [33]
6	Modified selection expressions	No

6 Conformance

The test realizer of a Means Of Testing (MOT) for this PTS summary shall comply with the requirements of ISO/IEC 9646-4 [14].

In particular, the realisation of each referenced ATS shall conform to the ATS specification consistent with the modifications made by the PSTS referenced by this PTS summary. The realisation of the ATS within the PSTS shall conform to the PSTS.

The laboratories running conformance test services according to this PTS summary shall comply with ISO/IEC 9646-5 [15].

Annex A (informative): Bibliography

- 1) EWOS/ETSI Project Team No 5: "Project Report and Technical Report. OSI Conformance Testing Methodology and Procedures in Europe".
- 2) ETR 022 (1991): "Advanced Testing Methods (ATM); Vocabulary of terms used in communication protocols conformance testing".
- 3) ETR 141: (August 1994): "Methods for testing and specifications (MTS), Protocol and profile conformance testing specifications, The Tree and Tabular Combined Notation (TTCN) style guide".
- 4) CEPT Recommendation T/SGT SF2 (89) 6/0: "Draft Recommendation T/SF Services and Facilities of Digital European Cordless Telecommunications".
- 5) ETR 015: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Reference document".
- 6) ETR 041 "Transmission and multiplexing (TM); Digital European Cordless Telecommunications (DECT) Transmission aspects 3,1 kHz telephony Interworking with other networks".
- 7) ETR 042 "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) A Guide to DECT features that influence the traffic capacity and the maintenance of high radio link transmission quality, including the results of simulations".
- 8) ETR 043: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) Common Interface Services and Facilities requirements specification".
- 9) ETR 056: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT) System description document".

History

Document history			
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