

EUROPEAN TELECOMMUNICATION STANDARD

FINAL DRAFT pr ETS 300 494-1

May 1996

Source: ETSI TC-RES Reference: DE/RES-03040-1

ICS: 33.020, 33.060.50

Key words: DECT, GAP, testing

Radio Equipment and Systems (RES);

Digital Enhanced Cordless Telecommunications (DECT);

Generic Access Profile (GAP);

Profile Test Specification (PTS);

Part 1: Summary

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - Internet: secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

*

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

ge 2 al draft prETS 300	494-1: May 1996		

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

Contents

Fore	eword	5
1	Scope	
•		
2	Normative references	
3	Definitions and abbreviations	10
	3.1 Definitions	10
	3.1 Definitions3.2 Abbreviations	10
4	Profile identification	10
5	Elements of the PTS	11
_	5.1 Conformance testing for NWK layer	11
	5.2 Conformance testing for DLC layer	
	5.3 Conformance testing for MAC layer	
	5.4 Conformance testing for PH layer	12
6	Conformance	13
U	Contomiance	12
Anne	nex A (informative): Bibliography	13
Histo	tory	

Blank page

Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

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)".

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		
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa		

Blank page

1 Scope

This final draft 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.

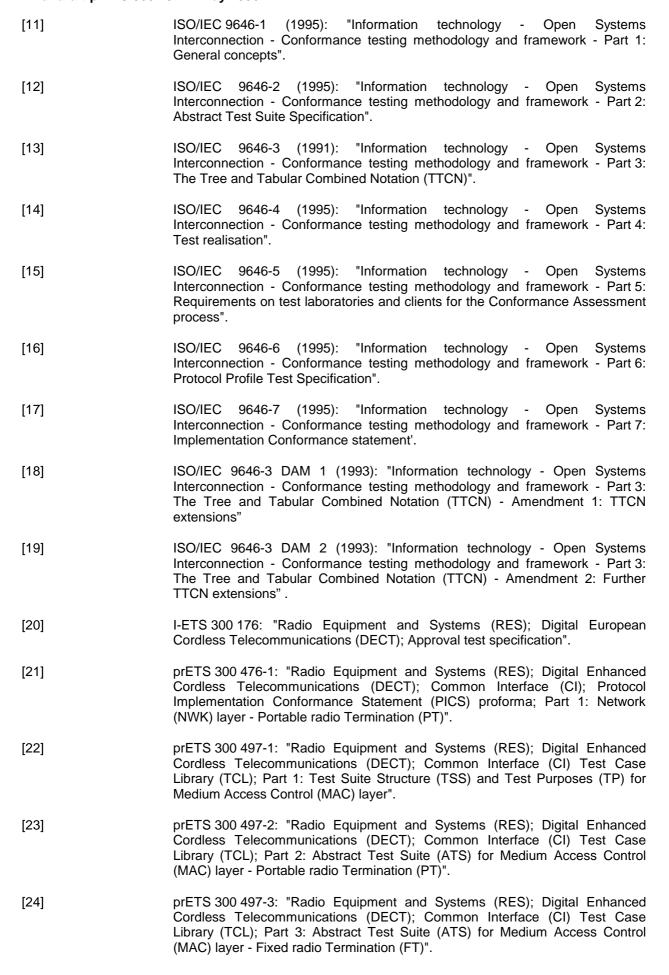
This ETS has the following structure:

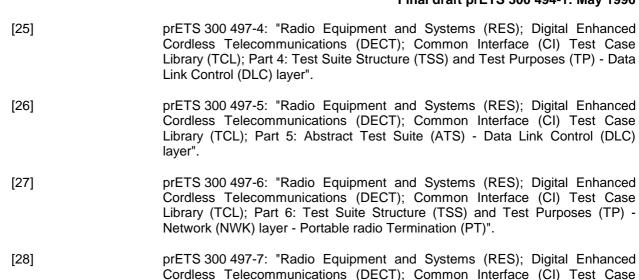
- clause 4 contains general information relative to the profile including references to the related ETSs.
- clause 5 contains a summary and references to the ETSs relevant for each of DECT protocol layers to be tested.

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)".





Library (TCL); Part 7: Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio Termination (PT)".

[29] prETS 300 497-8: "Radio Equipment and Systems (RES); Digital Enhanced

[30]

[31]

[32]

[33]

preTS 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)".

prETS 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)".

prETS 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)".

prETS 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)".

prETS 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

Particle Specific Test Specification

Portable radio Termination

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]

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

- 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					
June 1995	Public Enquiry	PE 85:	1995-06-05 to 1995-09-29		
May 1996	Vote	V 102:	1996-05-06 to 1996-08-09		