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Part 1: Profile Test Specification (PTS) 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 meaning of the abbreviation DECT has been changed to Digital Enhanced Cordless Telecommunications (DECT) by the decision of the 23rd ETSI Technical Assembly (TA), 7th November 1995.

This ETS comprises three parts:

Part 1: "PTS - 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

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1 Scope

This European Telecommunication Standard (ETS) specifies the Profile Test Specification (PTS) summary referencing all the documents necessary for the conformance testing of the Digital Enhanced Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) Interworking Profile (IWP) as specified in ETS 300 370 [11].

This ETS together with the references in clause 2 constitute the DECT/GSM IWP PTS.

This ETS has the following structure:

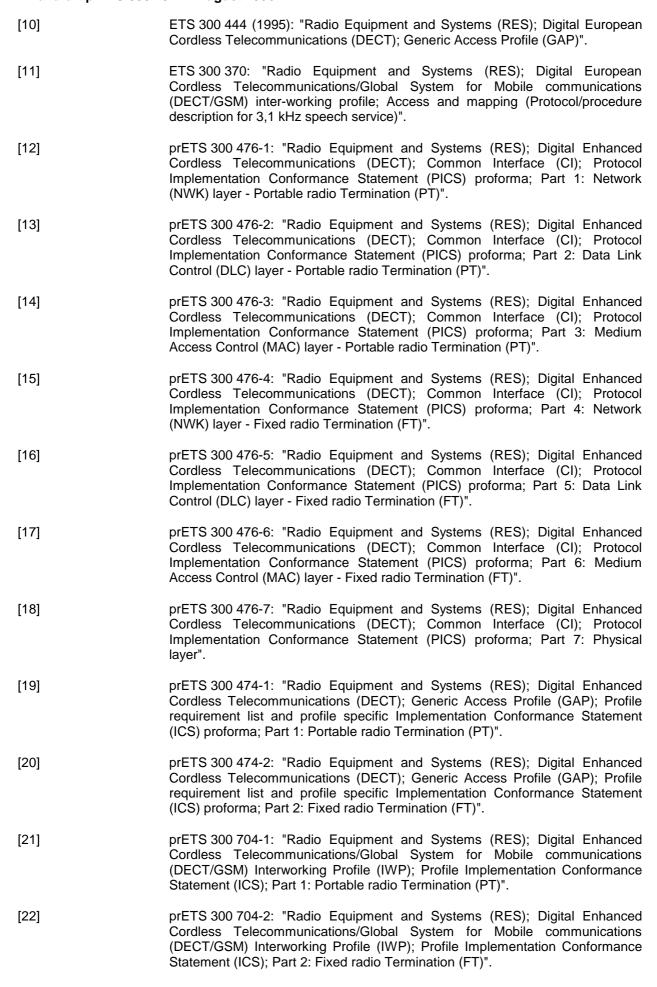
- clause 4 contains general information relative to the profile including references to the related standards;
- clause 5 contains a summary and references to the standards relevant for each of DECT protocol layers to be tested.

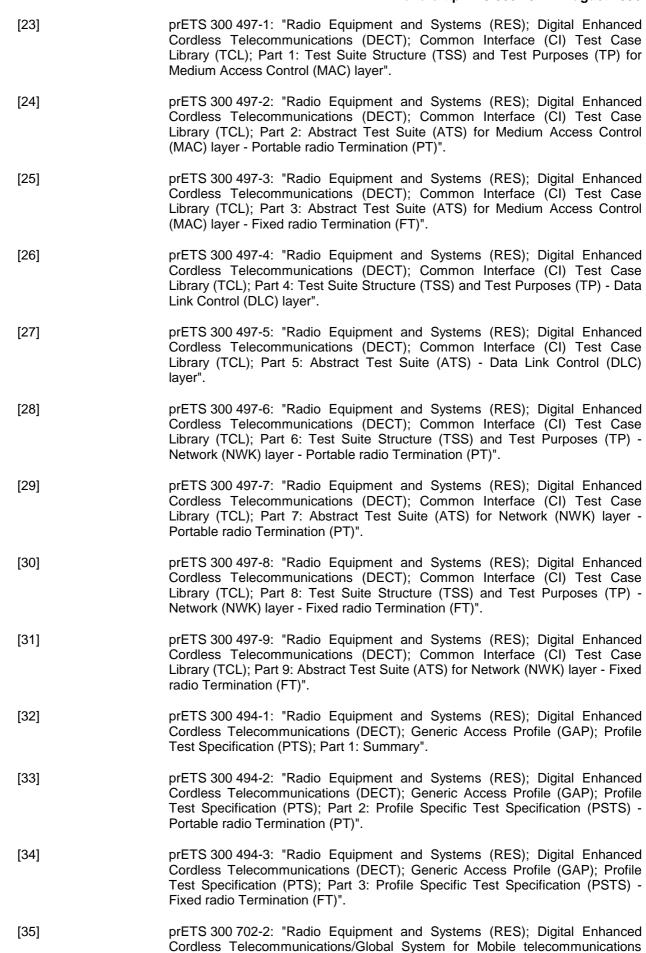
2 Normative references

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]	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

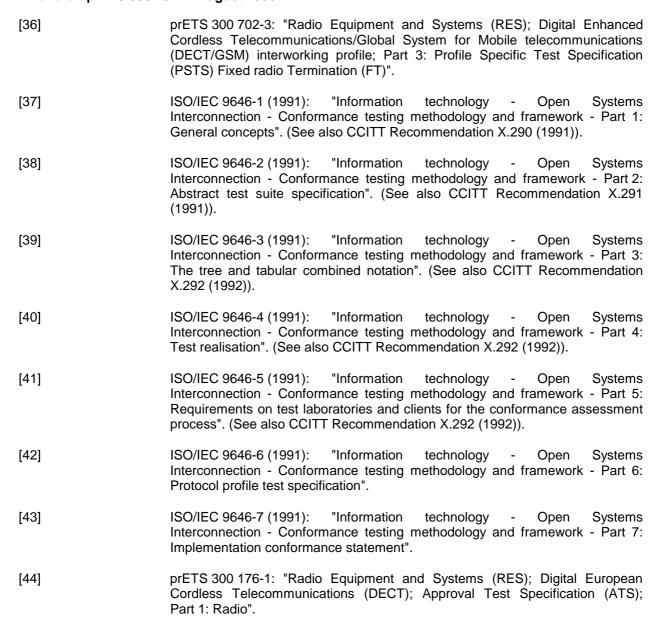
Access Profile (PAP)".





(DECT/GSM) interworking profile; Part 2: Profile Specific Test Specification

(PSTS) Portable radio Termination (PT)".



3 Definitions and abbreviations

3.1 Definitions

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

- definitions in ETS 300 370 [11];
- definitions in ISO/IEC 9646, parts 1 to 7 [37] to [43].

3.2 Abbreviations

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

- abbreviations in ETS 300 175 Parts 1 to 8 [1] [8];
- abbreviations in ETS 300 370 [11].

In addition, 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
FT Fixed radio Termination
GAP Generic Access Profile

GSM Global System for Mobile communications ICS Implementation Conformance Statement

IWP Interworking Profile

IXIT Implementation eXtra Information for Testing

LCE Link Control Entity
MAC Medium Access Control
MM Mobility Management entity

NWK Network PHL Physical

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

Profile identification

Table 1

No.		Profile identification
1	Profile identifier	DECT/GSM IWP
2	Profile specification	ETS 300 370 [11]
3	Profile ICS proforma	ETS 300 704-1 [21]: DECT/GSM IWP Profile ICS Portable
		radio Termination (PT)
		ETS 300 704-2 [22]: DECT/GSM IWP Profile ICS Fixed
		radio Termination (FT)
4	PSTS	ETS 300 702-2 [35]: DECT GSM IWP, PTS, PSTS,
		Portable radio Termination (PT)
		ETS 300 702-3 [36]: DECT GSM IWP, PTS, PSTS, Fixed
		radio Termination (FT)
5	Profile IXIT proforma	ETS 300 702-2 [35]: DECT GSM IWP, PTS, PSTS,
		Portable radio Termination (PT)
		ETS 300 702-3 [36]: DECT GSM IWP, PTS, PSTS, Fixed
		radio Termination (FT)
6	SCS proforma	ETS 300 702-2 [35]: DECT GSM IWP, PTS, PSTS,
		Portable radio Termination (PT)
		ETS 300 702-3 [36]: DECT GSM IWP, PTS, PSTS, Fixed
		radio Termination (FT)
comm	nents:	

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 [12] and ETS 300 476-4 [15]
3	TSS & TP	ETS 300 497-6 [28]: Test Suite Structure and Test Purposes, Network (NWK) layer, Portable radio Termination (PT)
		ETS 300 497-8 [30]: Test Suite Structure and Test Purposes, Network (NWK) layer, Fixed radio Termination (FT)
4	ATS	ETS 300 497-7 [29]: Abstract Test Suite, Network (NWK) layer, Portable radio Termination (PT) ETS 300 497-9 [31]: Abstract Test Suite, Network (NWK) layer, Fixed radio Termination (FT)
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 [29]: Abstract Test Suite, Network (NWK) layer, Portable radio Termination (PT) ETS 300 497-9 [31]: Abstract Test Suite, Network (NWK) layer, Fixed radio Termination (FT)

Table 3

No.		GAP Profile
1	Profile identification	ETS 300 444 [10]
2	Profile ICS proforma	ETS 300 474 Parts 1 and 2 [19] and [20]
3	PTS - Summary	ETS 300 494-1 [32]: Generic Access Profile (GAP), PTS
4	TSS & TP	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
5	ATS	ETS 300 494: Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
6	Applicability of ATS	Basic speech covered. Basic services and procedures concerning CC, MM and LCE entities covered
7	ATM	Remote
8	Partial PIXIT	ETS 300 494: Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS

Table 4

No.		DECT/GSM IWP Profile
1	Profile ICS proforma	ETS 300 704 Parts 1 and 2 [21] and [22]
2	Additional TSS & TP	ETS 300 702 Parts 2 and 3 [35] and [36]
3	ATM	Remote
4	Additional test cases	ETS 300 702 Parts 2 and 3 [35] and [36]
5	Partial Profile IXIT proforma	ETS 300 702 Parts 2 and 3 [35] and [36] DECT/GSM IWP,
		PTS, PSTS
6	Modified selection expressions	ETS 300 702 Parts 2 and 3 [35] and [36]

Conformance testing for DLC layer 5.2

Table 5

No.		Protocol
1	Protocol identification	ETS 300 175-4 [4]
2	PICS proforma	ETS 300 476-2 [13] and ETS 300 476-5 [16]
3	TSS & TP	ETS 300 497-4 [26]: Test Suite Structure and Test
		Purposes, DLC layer
4	ATS	ETS 300 497-5 [27]: Abstract Test Suite, DLC layer
5	Applicability of ATS	Basic connection, C-plane: Class-A service, U-plane: class
		0/min_delay, FU1 frame, handover, ciphering
6	ATM	Remote
7	Partial PIXIT	ETS 300 497-5 [27]: Abstract Test Suite, DLC layer

Table 6

No.		GAP Profile
1	Profile identification	ETS 300 444 [10]
2	Profile ICS proforma	ETS 300 474 Parts 1 and 2 [19] and [20]
3	PTS - Summary	ETS 300 494-1 [32] Generic Access Profile (GAP), PTS
4	TSS & TP	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
5	ATS	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
6	Applicability of ATS	Basic connection, C-plane: Class-A service, U-plane: class 0/min_delay, FU1 frame, handover, ciphering
7	ATM	Remote
8	Partial PIXIT	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS

Table 7

No.		DECT/GSM IWP Profile
1	Profile ICS proforma	ETS 300 704 Parts 1 and 2 [21] and [22]
2	Additional TSS & TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	ETS 300 702 Parts 2 and 3 [35] and [36] DECT/GSM IWP, PTS, PSTS
6	Modified selection expressions	No

5.3 Conformance testing for MAC layer

Table 8

No.		Protocol
1	Protocol identification	ETS 300 175-3 [3]
2	PICS proforma	ETS 300 476 Parts 3 and 6 [14] and [17]
3	TSS & TP	ETS 300 497-1 [23]: Test Suite Structure and Test Purposes, MAC layer
4	ATS	ETS 300 497-2 [24]: Abstract Test Suite, MAC layer (NWK), Portable radio Termination (PT) ETS 300 497-3 [25]: Abstract Test Suite, MAC layer, Fixed radio Termination (FT)
5	Applicability of ATS	C _S higher layer signalling, Basic connections, Continuous broadcast, Short page, normal/extended paging, SARI support, encryption, bearer handover, connection handover, quality control, T-MUX, U-MUX,
6	ATM	Remote (modified)
7	Partial PIXIT	ETS 300 497-2 [24]: Abstract Test Suite, MAC layer (NWK), Portable radio Termination (PT) ETS 300 497-3 [25]: Abstract Test Suite, MAC layer, Fixed radio Termination (FT)

Table 9

No.		GAP Profile
1	Profile identification	ETS 300 444 [10]
2	Profile ICS proforma	ETS 300 474 Parts 1 and 2 [19] and [20]
3	PTS - Summary	ETS 300 494-1 [32]: Generic Access Profile (GAP), PTS
4	TSS & TP	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
5	ATS	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS
6	Applicability of ATS	C _S higher layer signalling, Basic connections, Continuous broadcast, Short page, normal/extended paging, SARI support, encryption, bearer handover, connection handover, quality control, T-MUX, U-MUX,
7	ATM	Remote (modified)
8	Partial PIXIT	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS

Table 10

No.	DECT/GSM IWP Profile	
1	Profile ICS proforma	ETS 300 704 Parts 1 and 2 [21] and [22]
2	Additional TSS & TP	No
3	ATM	Remote (modified)
4	Additional test cases	No
5	Partial Profile IXIT proforma	ETS 300 702 Parts 2 and 3 [35] and [36] DECT/GSM IWP, PTS, PSTS
6	Modified selection expressions	No

5.4 Conformance testing for PHL layer

Table 11

No.	Protocol		
1	Protocol identification	ETS 300 175-2: Physical layer [2]	
2	PICS proforma	ETS 300 476-7 [18]	
3	TSS & TP	ETS 300 176-1 [44]	
4	ATS	ETS 300 176-1 [44]	
5	Applicability of ATS	General terminal attachment requirements, basic telephony applications	
6	ATM	-	
7	Partial PIXIT	-	

Table 12

No.	GAP Profile			
1	Profile identification	ETS 300 444 [10]		
2	Profile ICS proforma	ETS 300 474 Parts 1 and 2 [19] and [20]		
3	PTS - Summary	ETS 300 494-1 [32]: Generic Access Profile (GAP), PTS		
4	TSS & TP	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS		
5	ATS	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS		
6	Applicability of ATS	General terminal attachment requirements, basic telephony applications		
7	ATM	-		
8	Partial PIXIT	ETS 300 494 Parts 2 and 3 [33] and [34] Generic Access Profile (GAP), PTS, PSTS		

Table 13

No.	DECT/GSM IWP Profile		
1	Profile ICS proforma	ETS 300 704 Parts 1 and 2 [21] and [22]	
2	Additional TSS & TP	No	
3	ATM	Remote (modified)	
4	Additional test cases	No	
5	Partial Profile IXIT proforma	ETS 300 702 Parts 2 and 3 [35] and [36] DECT/GSM IWP, PTS, PSTS	
6	Modified selection expressions	No	

6 Conformance

The test realized of a Means Of Testing (MOT) for this PTS summary shall comply with the requirements of ISO/IEC 9646-4 [40].

In particular, the realization 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 [41].

History

Document history						
January 1996	Public Enquiry	PE 99:	1996-01-01 to 1996-04-26			
August 1996	Vote	V 108:	1996-08-05 to 1996-09-27			