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European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Integrated Services Digital Network (ISDN);
DECT/ISDN interworking for
intermediate system configuration;
Part 1: Profile Test Specification (PTS) summary**



Reference

DEN/DECT-040104-1 (ey090idc.PDF)

Keywords

DECT, ICS, ISDN, profile

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT), and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 1 of a multi-part EN covering the DECT/ISDN interworking for intermediate system configuration, as identified below:

- Part 1:** "Profile Test Specification (PTS) summary";
- Part 2: "Profile Specific Test Specification (PSTS) for Portable radio Termination (PT)";
- Part 3: "Profile Specific Test Specification (PSTS) for Fixed radio Termination (FT)".

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

The present document specifies the PTS summary referencing all the documents necessary for the conformance testing of the Digital Enhanced Cordless Telecommunications/Integrated Services Digital Network (DECT/ISDN) Interworking for Intermediate system configuration Profile (IIP) as specified in ETS 300 822 [33].

This Profile Test Specification (PTS) summary together with the documents it references constitute the DECT/ISDN IIP PTS.

The present document has the following structure:

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

The ISO standard for the methodology of conformance testing ISO/IEC 9646 [34] to [40] is used as the basis for the test methodology, and as the basis for test case specification.

2 Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] EN 301 241-1: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for intermediate system configuration; Profile Implementation Conformance Statement (ICS); Part 1: Portable radio Termination (PT)".
- [2] EN 301 241-2: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN Interworking for intermediate system configuration; Profile Implementation Conformance Statement (ICS); Part 2: Fixed radio Termination (FT)".
- [3] EN 301 614-2: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for intermediate system configuration; Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) for Portable radio Termination (PT)".
- [4] EN 301 614-3: " Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for intermediate system configuration; Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) for Fixed radio Termination (FT)".
- [5] ETS 300 012 (1992) including Amendment 2 (1996): "Integrated Services Digital Network (ISDN); Basic user-network interface; Layer 1 specification and test principles".
- [6] EN 300 175-2 (1992): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".

- [7] EN 300 175-3 (1992): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [8] EN 300 175-4 (1992): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [9] EN 300 175-5 (1992): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [10] EN 300 176-1: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 1: Radio".
- [11] ETS 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [12] ETS 300 196-2: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [13] ETS 300 196-3: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user".
- [14] ETS 300 196-4: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user".
- [15] ETS 300 402-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
- [16] ETS 300 402-4: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 4: Protocol Implementation Conformance Statement (PICS) proforma specification for the general protocol".
- [17] ETS 300 476-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 1: Network (NWK) layer - Portable radio Termination (PT)".
- [18] ETS 300 476-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 2: Data Link Control (DLC) layer - Portable radio Termination (PT)".
- [19] ETS 300 476-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 3: Medium Access Control (MAC) layer - Portable radio Termination (PT)".
- [20] ETS 300 476-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network (NWK) layer - Fixed radio Termination (FT)".
- [21] ETS 300 476-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 5: Data Link Control (DLC) layer - Fixed radio Termination (FT)".
- [22] ETS 300 476-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 6: Medium Access Control (MAC) layer - Fixed radio Termination (FT)".
- [23] ETS 300 476-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer".

- [24] ETS 300 497-1: "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".
- [25] ETS 300 497-2: "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)".
- [26] ETS 300 497-3: "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)".
- [27] ETS 300 497-4: "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".
- [28] ETS 300 497-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI) Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".
- [29] ETS 300 497-6: "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)".
- [30] ETS 300 497-7: "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)".
- [31] ETS 300 497-8: "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)".
- [32] ETS 300 497-9: "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)".
- [33] ETS 300 822: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); DECT/ISDN interworking for intermediate system configuration; Interworking and profile specification".
- [34] ISO/IEC 9646-1 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts". (See also CCITT Recommendation X.290 (1991)).
- [35] ISO/IEC 9646-2 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification". (See also CCITT Recommendation X.291 (1991)).
- [36] ISO/IEC 9646-3 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)". (See also CCITT Recommendation X.292 (1992)).
- [37] ISO/IEC 9646-4 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realization". (See also CCITT Recommendation X.292 (1992)).
- [38] ISO/IEC 9646-5 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process". (See also CCITT Recommendation X.292 (1992)).
- [39] ISO/IEC 9646-6 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".
- [40] ISO/IEC 9646-7 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statement".

- [41] TBR 3: "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

- a) the terms defined in ISO/IEC 9646-7 [40]; and
- b) the definitions in ETS 300 822 [33].

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ISO/IEC 9646-1 [34], ISO/IEC 9646-6 [39], ISO/IEC 9646-7 [40] and the abbreviations defined in ETS 300 822 [33] apply. In particular, the following definitions apply:

ATS	Abstract Test Suite
ATM	Abstract Test Method
CC	Call Control entity
CI	Common Interface
DECT	Digital Enhanced Cordless Telecommunications
DLC	Data Link Control layer
FT	Fixed radio Termination
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IXIT	Implementation Extra Information for Testing
LCE	Link Control Entity
MAC	Medium Access Control layer
MM	Mobility Management entity
MOT	Means Of Testing
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
T-MUX	Tail Multiplexor
U-MUX	U-type Multiplexor
XRL	IXIT Requirements List

4 Profile identification

4.1 Profile identification for Portable radio Termination (PT)

Table 1: Profile identification for PT

Profile identifier	DECT/ISDN IIP for PT
Profile specification	ETS 300 822 [33]
Profile Requirement list	EN 301 241-1 [1], annex B
Profile specific ICS proforma	EN 301 241-1 [1], annex C
PSTS	EN 301 614-2 [3]
Profile XRL	EN 301 614-2 [3]
Partial profile IXIT proforma	EN 301 614-2 [3]
SCS proforma	EN 301 241-1 [1], annex A

4.2 Profile identification for Fixed radio Termination (FT)

Table 2: Profile identification for FT

Profile identifier	DECT/ISDN IIP for FT
Profile specification	ETS 300 822 [33]
Profile Requirement list	EN 301 241-2 [2], annex B
Profile specific ICS proforma	EN 301 241-2 [2], annex C
PSTS	EN 301 614-3 [4]
Profile XRL	EN 301 614-3 [4]
Partial profile IXIT proforma	EN 301 614-3 [4]
SCS proforma	EN 301 241-2 [2], annex A

5 Elements of the Profile Test Specification (PTS)

5.1 Conformance testing specification for PT

5.1.1 Digital Enhanced Cordless Telecommunications (DECT) NWK layer protocol

Table 3: DECT NWK layer protocol

Protocol identification	EN 300 175-5 [9]
PICS proforma	ETS 300 476-1 [17]
TSS&TP	ETS 300 497-6 [29]
Additional TSS&TP	EN 301 614-2 [3]
ATS	ETS 300 497-7 [30]
Applicability of ATS	Basic speech covered. Basic services and procedures concerning CC, MM, LCE and LLME entities covered
ATM	Remote
Partial IXIT proforma	ETS 300 497-7 [30]
Additional Test Cases	EN 301 614-2 [3]

5.1.2 DECT Data Link Control layer (DLC) layer protocol

Table 4: DECT DLC layer protocol

Protocol identification	EN 300 175-4 [8]
PICS proforma	ETS 300 476-2 [18]
TSS&TP	ETS 300 497-4 [27]
Additional TSS&TP	EN 301 614-2 [3]
ATS	ETS 300 497-5 [28]
Applicability of ATS	Basic connection, C-plane: Class-B service, U-plane: class 0/min_delay, FU1 frame, class 0/nor_delay, FU7, FU8 frame, handover, ciphering
ATM	ETS 300 497-5 [28]
Partial IXIT proforma	ETS 300 497-5 [28]
Additional Test Cases	EN 301 614-2 [3]

5.1.3 DECT Medium Access Control layer (MAC) layer protocol

Table 5: DECT MAC layer protocol

Protocol identification	EN 300 175-3 [7]
PICS proforma	ETS 300 476-3 [19]
TSS&TP	ETS 300 497-1 [24]
Additional TSS&TP	EN 301 614-2 [3]
ATS	ETS 300 497-2 [25]
Applicability of ATS	CS and CF higher layer signalling, Basic connections, B field normal setup, Continuous broadcast, Short page, normal/extended paging, SARI support, encryption, bearer handover, connection handover, quality control, T-MUX, U-MUX
ATM	ETS 300 497-2 [25]
Partial IXIT proforma	ETS 300 497-2 [25]
Additional Test Cases	EN 301 614-2 [3]
T-MUX	Tail Multiplexor.
U-MUX	U-type Multiplexor.

5.1.4 DECT PHL layer protocol

Table 6: DECT PHL layer protocol

Protocol identification	EN 300 175-2 [6]
PICS proforma	ETS 300 476-7 [23]
TSS&TP	EN 300 176-1 [10]
Additional TSS&TP	EN 301 614-2 [3]
ATS	EN 300 176-1 [10]
Applicability of ATS	General terminal attachment requirements, basic telephony applications
ATM	-
Partial IXIT proforma	-
Additional Test Cases	EN 301 614-2 [3]

5.1.5 Integrated Services Digital Network (ISDN) L2 layer basic access protocol

Table 7: ISDN L2 layer basic access protocol

Protocol identification	ETS 300 402-2 [15]
PICS proforma	ETS 300 402-4 [16]
TSS&TP	TBR 3 [41] annex C
Additional TSS&TP	EN 301 614-3 [4]
ATS	TBR 3 [41] annex C
Applicability of ATS	TBR 3 [41] annex C, clause C.1
ATM	TBR 3 [41] annex C
Partial IXIT proforma	TBR 3 [41] annex E, clause E.8
Additional Test Cases	EN 301 614-3 [4]

5.1.6 ISDN L1 layer basic access protocol

Table 8: ISDN L1 layer basic access protocol

Protocol identification	ETS 300 012 [5]
PICS proforma	ETS 300 012/A2 [5]
TSS&TP	TBR 3 [41] annex B
Additional TSS&TP	EN 301 614-3 [4]
ATS	TBR 3 [41] annex B
Applicability of ATS	TBR 3 [41] annex B, clause B.1
ATM	TBR 3 [41] annex B
Partial IXIT proforma	TBR 3 [41] annex E, clause E.7
Additional Test Cases	EN 301 614-3 [4]

5.1.7 ISDN generic functional protocol

Table 9: ISDN generic functional protocol

Protocol identification	ETS 300 196-1 [11]
PICS proforma	ETS 300 196-2 [12]
TSS&TP	ETS 300 196-3 [13]
Additional TSS&TP	EN 301 614-3 [4]
ATS	ETS 300 196-4 [14]
Applicability of ATS	ETS 300 196-4 [14]
ATM	ETS 300 196-4 [14]
Partial IXIT proforma	ETS 300 196-4 [14]
Additional Test Cases	EN 301 614-3 [4]

5.2 Conformance testing specification for FT

5.2.1 DECT NWK layer protocol

Table 10: DECT NWK layer protocol

Protocol identification	EN 300 175-5 [9]
PICS proforma	ETS 300 476-4 [20]
TSS&TP	ETS 300 497-8 [31]
Additional TSS&TP	EN 301 614-3 [4]
ATS	ETS 300 497-9 [32]
Applicability of ATS	Basic speech covered. Basic services and procedures concerning CC, MM and LCE LLME entities covered
ATM	ETS 300 497-9 [32]
Partial IXIT proforma	ETS 300 497-9 [32]
Additional Test Cases	EN 301 614-3 [4]

5.2.2 DECT DLC layer protocol

Table 11: DECT DLC layer protocol

Protocol identification	EN 300 175-4 [8]
PICS proforma	ETS 300 476-5 [21]
TSS&TP	ETS 300 497-4 [27]
Additional TSS&TP	EN 301 614-3 [4]
ATS	ETS 300 497-5 [28]
Applicability of ATS	Basic connection, C-plane: Class-B service, U-plane: class 0/min_delay, FU1 frame, class 0/nor_delay, FU7, FU8 frame, handover, ciphering
ATM	ETS 300 497-5 [28]
Partial IXIT proforma	ETS 300 497-5 [28]
Additional Test Cases	DEEN 301 614-3 [4]

5.2.3 DECT MAC layer protocol

Table 12: DECT MAC layer protocol

Protocol identification	EN 300 175-3 [7]
PICS proforma	ETS 300 476-6 [22]
TSS&TP	ETS 300 497-1 [24]
Additional TSS&TP	DEN/DECT-0301043 [31]
ATS	ETS 300 497-3 [26]
Applicability of ATS	CS and CF higher layer signalling, Basic connections, B field normal setup, Continuous broadcast, Short page, normal/extended paging, SARI support, encryption, bearer handover, connection handover, quality control, T-MUX, U-MUX
ATM	ETS 300 497-3 [26]
Partial IXIT proforma	ETS 300 497-3 [26]
Additional Test Cases	EN 301 614-3 [4]
T-MUX	Tail Multiplexor.
U-MUX	U-type Multiplexor.

5.2.4 DECT PHL layer protocol

Table 13: DECT PHL layer protocol

Protocol identification	EN 300 175-2 [6]
PICS proforma	ETS 300 476-7 [23]
TSS&TP	EN 300 176-1 [10]
Additional TSS&TP	EN 301 614-3 [4]
ATS	EN 300 176-1 [10]
Applicability of ATS	General terminal attachment requirements, basic telephony applications
ATM	-
Partial IXIT proforma	-
Additional Test Cases	EN 301 614-3 [4]

5.2.5 ISDN L2 layer basic access protocol

Table 14: ISDN L2 layer basic access protocol

Protocol identification	ETS 300 402-2 [15]
PICS proforma	ETS 300 402-4 [16]
TSS&TP	TBR 3 [41] annex C
Additional TSS&TP	EN 301 614-3 [4]
ATS	TBR 3 [41] annex C
Applicability of ATS	TBR 3 [41] annex C, clause C.1
ATM	TBR 3 [41] annex C
Partial IXIT proforma	TBR 3 [41] annex E, clause E.8
Additional Test Cases	EN 301 614-3 [4]

5.2.6 ISDN L1 layer basic access protocol

Table 15: ISDN L1 layer basic access protocol

Protocol identification	ETS 300 012 [5]
PICS proforma	ETS 300 012/A2 [5]
TSS&TP	TBR 3 [41] annex B
Additional TSS&TP	EN 301 614-3 [4]
ATS	TBR 3 [41] annex B
Applicability of ATS	TBR 3 [41] annex B, clause B.1
ATM	TBR 3 [41] annex B
Partial IXIT proforma	TBR 3 [41] annex E, clause E.7
Additional Test Cases	EN 301 614-3 [4]

5.2.7 ISDN generic functional protocol

Table 16: ISDN generic functional protocol

Protocol identification	ETS 300 196-1 [11]
PICS proforma	ETS 300 196-2 [12]
TSS&TP	ETS 300 196-3 [13]
Additional TSS&TP	EN 301 614-3 [4]
ATS	ETS 300 196-4 [14]
Applicability of ATS	ETS 300 196-4 [14]
ATM	ETS 300 196-4 [14]
Partial IXIT proforma	ETS 300 196-4 [14]
Additional Test Cases	EN 301 614-3 [4]

6 Conformance clause

The test realizer of a Means Of Testing (MOT) for this PTS summary shall comply with the requirements of ISO/IEC 9646-4 [37].

In particular, the realization of each referenced Abstract Test Suite (ATS) shall conform to the ATS specification consistent with the modifications made by the Profile Specific Test Specification (PSTS) referenced by this PTS summary. The realization 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 [38].

History

Document history				
V1.1.1	April 1998	Public Enquiry	PE 9833:	1998-04-17 to 1998-08-14
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