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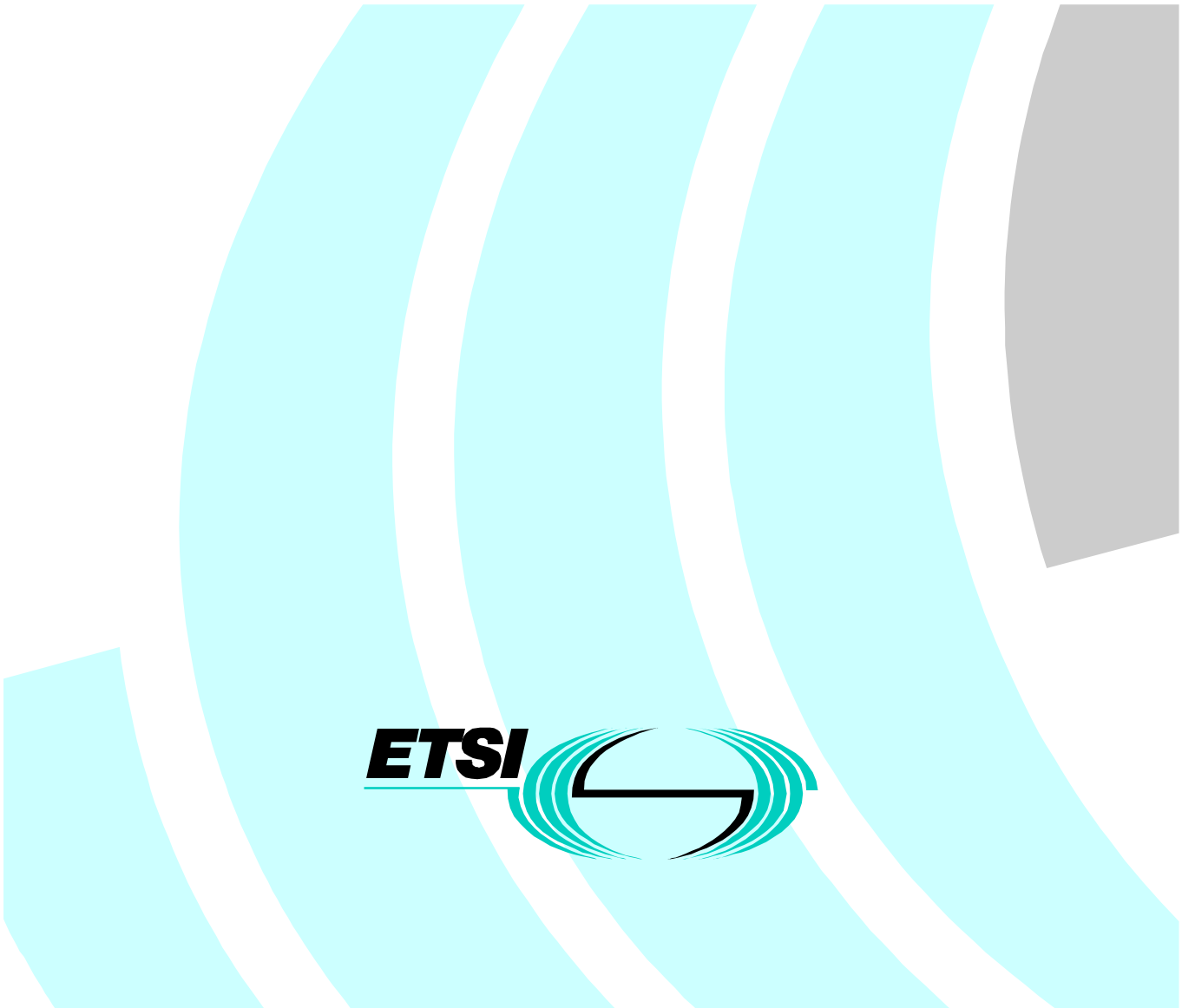
Technical Specification

Digital Enhanced Cordless Telecommunications (DECT); DECT Multimedia Access Profile (DMAP); Application Specific Access Profile (ASAP); Profile Test Specification (PTS); Part 1: Summary



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Contents

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Foreword

This Technical Specification (TS) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT).

The present document is part 1 of a multi-part deliverable covering the Multimedia Access Profile (DMAP) Application Specific Access Profile (ASAP), as identified below:

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)".

1 Scope

The present document specifies the Profile Test Specification (PTS) summary referencing all the specifications necessary for the conformance testing of the DECT Multimedia Access Profile (DMAP), Application Specific Access Profile (ASAP).

The present document, together with the specifications it references, constitutes the ASAP PTS.

The present document has the following structure:

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

2 References

The following documents contain provisions, which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

[1] ETSI EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".

[2] ETSI EN 300 176-1: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 1: Radio".

[3] ETSI EN 300 176-2: "Digital Enhanced Cordless Telecommunications (DECT); Approval test specification; Part 2: Speech".

[4] ETSI EN 300 444: "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

[5] ETSI EN 301 649: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS)".

[6] ETSI EN 301 650: "Digital Enhanced Cordless Telecommunications (DECT); DECT Multimedia Access Profile (DMAP) Application Specific Access Profile (ASAP)".

[7] ISO/IEC 9646-4: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 4: Test realization".

[8] ISO/IEC 9646-5: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 5: Requirements on test laboratories and clients for the conformance assessment process".

[9] ETSI EN 301 469-1: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 1: Test Suite Structure (TSS) and Test Purposes (TP) - Medium Access Control (MAC) layer".

[10] ETSI EN 301 469-2: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 2: Abstract Test Suite (ATS) - Medium Access Control (MAC) layer - Portable radio Termination (PT)".

[11] ETSI EN 301 469-3: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) - Medium Access Control (MAC) layer - Fixed radio Termination (FT)".

[12] ETSI EN 301 469-4: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer".

[13] ETSI EN 301 469-5: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer - Portable radio Termination (PT)".

[14] ETSI EN 301 469-6: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 6: Abstract Test Suite (ATS) - Data Link Control (DLC) layer - Fixed radio Termination (FT)".

[15] ETSI EN 301 469-7: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 7: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer".

[16] ETSI EN 301 469-8: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 8: Abstract Test Suite (ATS) - Network (NWK) layer - Portable radio Termination (PT)".

[17] ETSI EN 301 469-9: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS) Test Case Library (TCL); Part 9: Abstract Test Suite (ATS) - Network (NWK) layer - Fixed radio Termination (FT)".

[18] ETSI TS 101 871-2: "Digital Enhanced Cordless Telecommunications (DECT); Application Specific Access Profile (ASAP); DECT Multimedia Access Profile (DMAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 2: Fixed radio Termination (FT)".

[19] ETSI TS 101 859-2: "Digital Enhanced Cordless Telecommunications (DECT); DECT Multimedia Access Profile (DMAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) Portable radio Termination (PT)".

[20] ETSI TS 101 859-3: "Digital Enhanced Cordless Telecommunications (DECT); DECT Multimedia Access Profile (DMAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) - Fixed radio Termination (FT)".

[21] ETSI TS 101 869, Part 1 to 2: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Service (DPRS); Profile requirement list and profile specific Implementation Conformance Statement (PICS) proforma".

[22] ETSI TS 101 871-1: "Digital Enhanced Cordless Telecommunications (DECT); Application Specific Access Profile (ASAP); DECT Multimedia Access Profile (DMAP); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions in EN 301 649 [5] and EN 300 444 [4] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ASAP	Application Specific Access Profile
C	Conditional
DECT	Digital Enhanced Cordless Telecommunications
DLC	Data Link Control
DMAP	DECT Multimedia Access Profile
DPRS	DECT Packet Radio Service
EN	European Norm
FP	Fixed Part
FT	Fixed radio Termination
GAP	Generic Access Profile
I	Irrelevant (Out of scope)
IP	Internet Protocol
LAN	Local Area Network
LCE	Link Control Entity
M	Mandatory
MAC	Medium Access Control
MM	Mobility Management
NWK	Network
O	Optional
PHL	PHysical Layer
PHY	PHYsical
PICS	Protocol Implementation Conformance Statement
PP	Portable Part
PT	Portable radio Termination
RFP	Radio Fixed Part
TBR	Technical Basis for Regulation
U-plane	User-plane

4 Profile identification

Table 1

No.	Profile identification	
1	Profile identifier	Application Specific Access Profile
2	Profile specification	EN 301 650 [6]
3	Profile ICS proforma	TS 101 871-1 [22] TS 101 871-2 [18]
4	PSTS	TS 101 859-2 [19] TS 101 859-3 [20]
5	Profile IXIT proforma	TS 101 859-2 [19] TS 101 859-3 [20]
6	SCS proforma	TS 101 859-2 [19] TS 101 859-3 [20]

5 Elements of the PTS

5.1 Conformance testing for NWK layer

Table 2

No.	Protocol	
1	Protocol identification	EN 301 649 [5] clause 12
2	PICS proforma	TS 101 869 [21]
3	TSS and TP	EN 301 469-7 [15]
4	ATS	EN 301 469-8 [16] EN 301 469-9 [17]
5	Applicability of ATS	Speech and Data covered. Basic services and procedures concerning CC, MM and LCE entities covered
6	ATM	Remote
7	Partial PIXIT	EN 301 469-8 [16] EN 301 469-7 [15]

Table 3

No	Profile	
1	Profile ICS proforma	TS 101 871-1 [22] TS 101 871-2 [18]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	TS 101 859-2 [19] TS 101 859-3 [20]
6	Modified selection expressions	No

5.2 Conformance testing for DLC layer

Table 4

No.	Protocol	
1	Protocol identification	EN 301 649 [5] clause 10
2	PICS proforma	TS 101 869 [21]
3	TSS and TP	EN 301 469-4 [12]
4	ATS	EN 301 469-5 [13] EN 301 469-6 [14]
5	Applicability of ATS	
6	ATM	Remote
7	Partial PIXIT	EN 301 469-5 [13] EN 301 469-6 [14]

Table 5

No	Profile	
1	Profile ICS proforma	TS 101 871-1 [22] TS 101 871-2 [18]
2	Additional TSS and TP	No
3	ATM	Remote
4	Additional test cases	No
5	Partial Profile IXIT proforma	TS 101 859-2 [19] TS 101 859-3 [20]
6	Modified selection expressions	No

5.3 Conformance testing for MAC layer

Table 6

No.	Protocol	
1	Protocol identification	EN 301 649 [5] clause 9
2	PICS proforma	TS 101 869 [21]
3	TSS and TP	EN 301 469-1 [9]
4	ATS	EN 301 469-2 [10] EN 301 469-3 [11]
5	Applicability of ATS	
6	ATM	Remote (modified)
7	Partial PIXIT	EN 301 469-2 [10] EN 301 469-3 [11]

Table 7

No	Profile	
1	Profile ICS proforma	TS 101 871-1 [22] TS 101 871-2 [18]
2	Additional TSS and TP	No
3	ATM	Remote (modified)
4	Additional test cases	No
5	Partial Profile IXIT proforma	TS 101 859-2 [19] TS 101 859-3 [20]
6	Modified selection expressions	No

5.4 Conformance testing for PHY layer

Table 8

No.	Protocol	
1	Protocol identification	EN 300 175-2 [1]
2	PICS proforma	TS 101 869 [21]
3	TSS and TP	EN 300 176-1 [2] EN 300 176-2 [3]
4	ATS	EN 300 176-1 [2] EN 300 176-2 [3]
5	Applicability of ATS	General terminal attachment requirements, basic telephony and data applications
6	ATM	-
7	Partial PIXIT	-

Table 9

No	Profile	
1	Profile ICS proforma	TS 101 871-1 [22] TS 101 871-2 [18]
2	Additional TSS and TP	TS 101 859-2 [19] TS 101 859-3 [20]
3	ATM	-
4	Additional test cases	TS 101 859-2 [19] TS 101 859-3 [20]
5	Partial Profile IXIT proforma	TS 101 859-2 [19] TS 101 859-3 [20]
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 [7].

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 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 [8].

Annex A (informative): Bibliography

- ETSI TBR 022: "Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT) Generic Access Profile (GAP) applications".
- ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".
- ISO/IEC 8802-3 (1996): "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications".
- ISO/IEC 8073 (1992): "Information processing systems - Open System Interconnection - Connection oriented transport protocol specification".
- ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) Layer".
- ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) Layer".
- ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) Layer".
- ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and Addressing".
- ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security Features".
- ETSI EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech Coding and Transmission".

History

Document history		
V1.1.1	November 2000	Publication