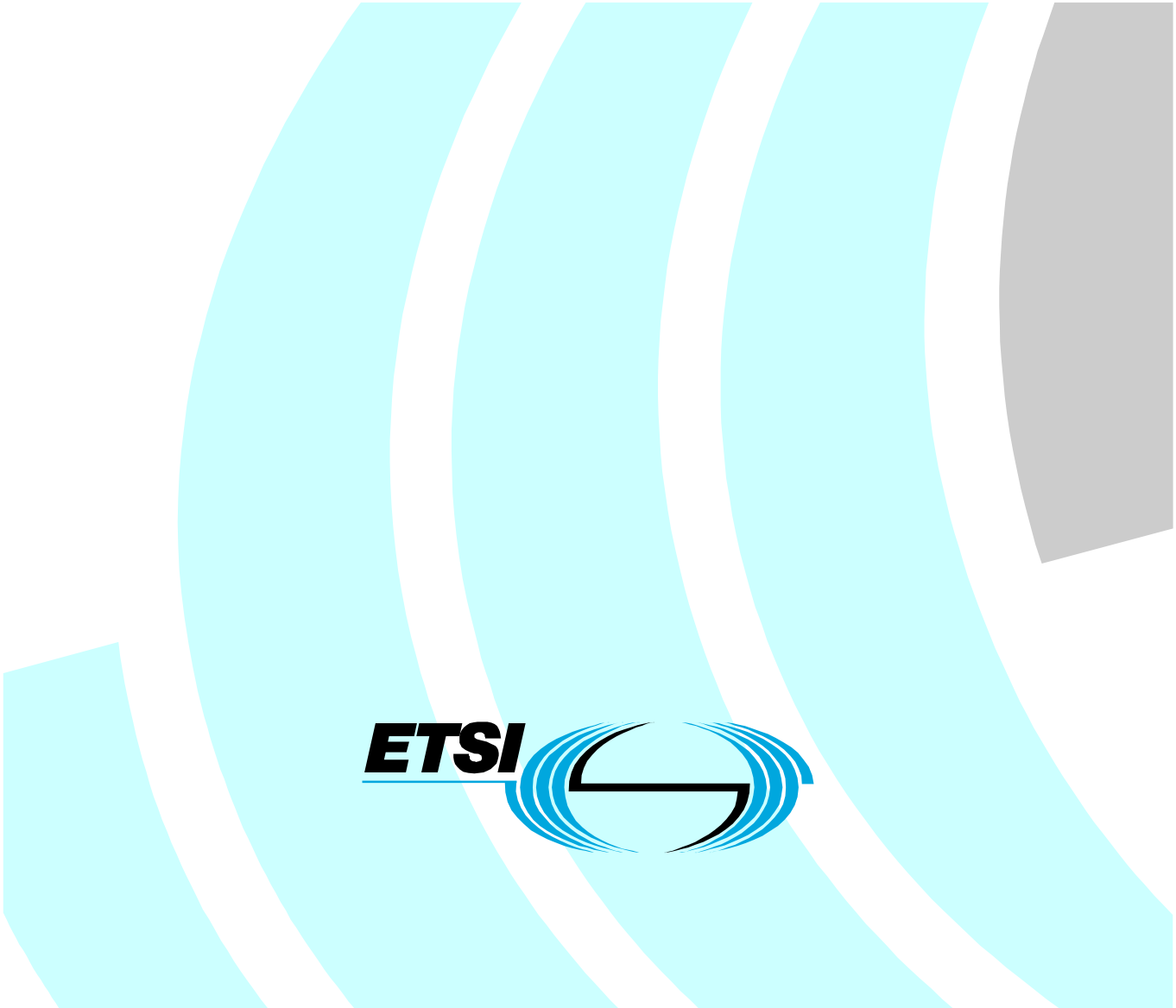
ETSI TS 101 871-1 V1.2.1 (2003-04)

Technical Specification

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)



Reference
RTS/DECT-040186-1

Keywords
access, data, DECT, ICS, interoperablility,
multimedia, network, profile, radio, testing, voice

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Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

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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 DECT Multimedia Access Profile (DMAP); Profile Inplementation Conformance Statement (ICS), as identified below:

Part 1: "Portable radio Termination (PT)";

Part 2: "Fixed radio Termination (FT)".

Annex A contains the requirement lists for the PT DECT Multimedia Access Profile, Application Specific Access Profile.

1 Scope

The present document provides the Profile requirement list and profile specific Implementation Conformance Statement proforma for the Digital Enhanced Cordless Telecommunications Multimedia Access Profile (DMAP), Application Specific Access Profile (ASAP) at the Portable radio Termination as defined in EN 301 650 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [5].

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

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

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

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

[4] ISO/IEC 9646-1: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".

[5] ISO/IEC 9646-7: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance Statements".

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

[7] ETSI TS 101 869-1: "Digital Enhanced Cordless Telecommunications (DECT); DECT Packet Radio Services (DPRS); Profile requirement list and profile specific Implementation Conformance Statement (ICS) proforma; Part 1: Portable radio Termination (PT)".

[8] ETSI EN 300 474-1: "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)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 175-1 [2], ISO/IEC 9646-1 [4], ISO/IEC 9646-7 [5] and the following apply:

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

NOTE: The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Protocol ICS (PICS): PICS for an implementation or system claimed to conform to a given protocol specification

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in EN 301 650 [1] and ISO/IEC 9646-1 [4] apply.

4 Conformance requirement

The supplier of a protocol implementation, which is claimed to conform to the portable termination specific requirements of EN 301 650 [1], shall verify that his protocol implementation meets the requirements described in the present document. All the requirements described in TS 101 869-1 [7] and EN 300 474-1 [8] apply with the changes indicated in annex A.

The clause A.4.2 and its subclauses indicate the general application support. The supplier of the implementation shall complete this part.

The clause A.4.3 and its subclauses indicate the profile requirements list and the mandatory clauses for voice services. The supplier of the implementation, which is claimed to support these services, shall complete this part.

The clause A.4.4 and its subclauses indicate the profile requirements list and the mandatory clauses for data services. The supplier of the implementation, which is claimed to support these services, shall complete this part

The clause A.4.5 and its subclauses indicate the profile specific ICS proforma. The supplier of the implementation shall complete this part.

An ICS, which conforms to the present document, shall be a conforming ICS proforma completed in accordance with the guidance for completion given in clause 5.

5 Introduction for completing the ICS proforma

5.1 General

The supplier of a protocol implementation that is claimed to conform to the portable termination specific requirements of EN 301 650 [1] shall verify that his particular layer protocol implementation meets the profile RL for each layer. For this, he shall complete a copy of the corresponding layer ICS proforma contained in TS 101 869-1 [7] for data services and in EN 300 474-1 [8] for voice services and updated with the requirements from annex A.

The profile Requirement List (profile RL) as defined in annex A is based on TS 101 869-1 [7] for data services and on EN 300 474-1 [8] for voice services. The profile RL is produced by copying selected tables from TS 101 869-1 [7] or EN 300 474-1 [8], removing the column(s) to be completed by the supplier, and adding a new set of columns giving the new profile requirements, both in terms of the status and/or allowed values. The tables defined in the present document, reference the tables either in TS 101 869-1 [7] or in EN 300 474-1 [8], as relevant.

5.2 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the Portable radio Termination (PT) of the EN 301 650 [1] may provide information about the implementation in a standardized manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- Instruction for completing the ICS proforma;
- Identification of the implementation;
- Identification of the protocol;
- ICS proforma tables:
  - Global statement of conformance;
  - Other specific clauses.

5.3 Abbreviations and conventions

The ICS proforma contained in annex A is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [5].

Item column

The item column contains a number, which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Profile reference column

The reference column gives reference to EN 301 650 [1], except where explicitly stated otherwise.

Status column

The following notations, defined in ISO/IEC 9646-7 [5], are used for the status column:

M or m	mandatory - the capability is required to be supported.
O or o	optional - the capability may be supported or not (e.g. the capability is not allowed because the underlying DECT layers (service provider) cannot handle it or the requirement belongs to an application i.e. does not belong to the network layer).
X or x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
O.i or o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.
Ci or ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table or which is defined in a general condition table.
I or i	out-of-scope - this capability is outside the scope of the given specification, and hence irrelevant and not subject to conformance testing. This status is in particular applicable for data fields, which are reserved for future use. The structure of such fields has to be supported, but the value is undefined and thus to be ignored.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [5], are used for the support column:

Y or y	supported by the implementation
N or n	not supported by the implementation
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status)

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line before a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

Annex A (normative): DMAP Profile ICS Proforma for PT

A.1 Instruction for completing the ICS proforma

The supplier of the implementation shall complete the ICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause 5.

A.2 Identification of the implementation

A.2.1 Date of the statement

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

Table A.1: Date of statement

Date of statement		
Day	**Month**	**Year**

A.2.2 Implementation Under Test (IUT) identification

The supplier of the implementation shall enter information necessary to uniquely identify the IUT in table A.2.

Table A.2: IUT identification

IUT identification	
IUT name	
IUT version	

A.2.3 System Under Test (SUT) identification

The supplier of the implementation shall enter information necessary to uniquely identify the SUT in table A.3.

Table A.3: SUT identification

SUT identification	
SUT name	International Portable Equipment Identity (IPEI):
Hardware configuration	
Operating system	

A.2.4 Product supplier

Table A.4: Product supplier

Product supplier	
Name	
Address	
Phone No.	
Fax No.	
E-mail address	
Additional information	

A.2.5 Client

The product supplier information and client information should both be filled in if they are different.

Table A.5: Client

Client	
Name	
Address	
Phone No.	
Fax No.	
E-mail address	
Additional information	

A.2.6 ICS contact person

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

Table A.6: Contact person

Contact person	
Name	
Address	
Phone No.	
Fax No.	
E-mail address	
Additional information	

A.3 Identification of the protocol

The supplier of the implementation shall enter the title, reference number and date of the publication of the DMAP-Specification to which conformance is claimed, in table A.7.

Table A.7: Identification of protocol

Identification of protocol	
Title of specification	Digital Enhanced Cordless Telecommunications (DECT); DECT Multimedia Access Profile (DMAP); Application Specific Access Profile (ASAP)
Reference no.	EN 301 650
Date of Publication	

A.3.1 Defect report numbers and amendments implemented

The supplier of the implementation shall enter the reference number of implementation defect reports or corresponding amendment documents which modify the specification to EN 301 650 [1] in table A.8.

Table A.8: Defect report and amendments number

Modification of specification	
Defect report no.	**Amendment no.**

A.3.2 Addenda implemented

The supplier of the implementation shall enter the titles and the reference number of implemented addenda to EN 301 650 [1] in table A.9.

Table A.9: Addenda implemented

Addenda implemented	
Title	**Reference no.**

A.4 ICS proforma tables

A.4.1 Global statement of conformance

Table A.10: Global statement of conformance

Global statement of conformance	
Are all mandatory capabilities implemented?	

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the ICS, with an explanation of why the implementation is non-conforming, on pages attached to the ICS proforma.

A.4.2 General Application

Table A.11: General Application supported

Item	Feature name	Protocol	Profile reference	Status	Support
1	Voice services	EN 300 444	6.2.1	O.a1101	
2	Data services: Wireless V.24	EN 301 649	6.2.1	O.a1101	
3	Data services: Wireless LAN	EN 301 649	6.2.1	O.a1101	
4	Distributed Communication services	EN 301 649	6.2.1	O	
O.a1101: At least one of these options shall be supported.					

A.4.3 Voice services

The supplier of the implementation, which is claimed to support the voice services by answering "Yes" into the support column of the item 1 of the table A.11 shall complete this clause.

A.4.3.1 General

To conform to the portable termination requirements of EN 301 650 for voice services, the supplier shall complete a copy of the corresponding part of the ICS proforma contained in EN 300 474-1 and TS 101 869-1 updated with the requirements indicated in the part voice service (see clause A.4.3 and subclauses) of this annex.

A.4.3.2 Network layer

In order to meet the requirements of EN 301 650, clause 6.2.2, the tables contained in EN 300 474-1, clauses A.2 and B.5.1.1 apply without modifications of the status column.

A.4.3.3 Data link control layer

In order to meet the requirements of EN 301 650, clause 6.2.3 the tables contained in EN 300 474-1, clauses A.3 and B.5.2 apply without modifications of the status column.

A.4.3.4 Medium access control layer

In order to meet the requirements of EN 301 650, clause 6.2.4, the tables contained in EN 300 474-1, clauses A.4 and B.5.3 apply without modifications of the status column.

A.4.3.5 Physical layer

The tables contained in EN 300 474-1, clauses A.5 and B.5.4 apply without modifications of the status column.

A.4.3.6 Management Entity (ME)

In order to meet the requirements of EN 301 650, clause 6.2.5, the tables contained in EN 300 474-1, clause B.5.1.4 apply without modifications of the status column.

A.4.3.7 Application features

In order to meet the requirements of EN 301 650, clause 6.2.6, the tables contained in EN 300 474-1, clauses B.5.1.2 and B.5.1.3 apply without modifications of the status column.

A.4.4 Data services

The supplier of the implementation, which is claimed to support the data services by answering "Yes" into the support column of either the item 2 or the item 3 of the table A.11 shall complete this clause.

A.4.4.1 General

To conform to the portable termination requirements of EN 301 650 for data services, the supplier shall complete a copy of the corresponding part of the ICS proforma contained in TS 101 869-1 updated with the requirements indicated in the part data service (see clause A.4.4 and subclauses) of this annex.

A.4.4.2 General requirements

In order to meet the general requirements of EN 301 650 for data services, the tables contained in TS 101 869-1, annex A apply with the following modifications.

Table A.12: TS 101 869-1, table A.2: DPRS protocol service class supported

Item	Feature name	Profile reference	Status
1	Class 1	A.1	I
2	Class 2	A.1	M
3	Frame Relay (FREL)	6.2.1	Ca1201
4	Character stream	6.2.1	Ca1202
Ca1201: IF A.11/2 THEN m ELSE i. Ca1202: IF A.11/3 THEN m ELSE i.			

Table A.13: TS 101 869-1, table A.3: DPRS protocol functional entities supported

Item	Feature name	Profile reference	Status
1	NWK layer	6.2.2	M
2	DLC layer	6.2.3	M
7	Distributed Communications	6.2.1	Ca1301
8	Ethernet IWF	B.1	Ca1302
9	Token Ring IWF	B.1	I
10	IP IWF	B.1	I
11	PPP IWF	B.1	I
12	V.24 IWF	C.1	Ca1303
Ca1301: = A.11/4. Ca1302: IF A.12/3 THEN m ELSE i. Ca1303: IF A.12/4 THEN m ELSE i.			

A.4.4.3 Network layer

In order to meet the requirements of EN 301 650, clause 6.2.2, the tables contained in TS 101 869-1, annex B apply with the following modifications.

Table A.14: TS 101 869-1, table B.2: NWK features supported

Item	Feature name	Profile reference	Status WV.24	Status WLAN
1	Outgoing call	6.2.2	O.a1401	O.a1402
2	Off hook	6.2.2	M	M
3	On hook (full release)	6.2.2	M	M
8	Incoming call	6.2.2	O.a1401	O.a1402
11	Location registration	6.2.2	M	M
12	On air key allocation	6.2.2	M	M
15	Alerting	6.2.2	Ca1401	Ca1402
20	Terminate access rights FT initiated	6.2.2	M	M
26	Authentication of FT	6.2.2	O	O
O.a1401: At least one of these options shall be supported. O.a1402: At least one of these options shall be supported. Ca1401: IF A.14/8 WV.24 THEN m ELSE i. Ca1402: IF A.14/8 WLAN THEN m ELSE i.				

Table A.15: TS 101 869-1, table B.3: NWK procedures supported

Item	Feature name	Profile reference	Status WV.24	Status WLAN
1	Outgoing call request	6.2.2	Ca1501	Ca1502
7	Incoming call connection	6.2.2	Ca1503	Ca1504
Ca1501: IF C.14/1 WV.24 THEN m ELSE i. Ca1502: IF C.14/1 WLAN THEN m ELSE i. Ca1503: IF C.14/8 WV.24 THEN m ELSE i. Ca1504: IF C.14/8 WLAN THEN m ELSE i.				

A.4.4.4 Data link control layer

In order to meet the requirements of EN 301 650, clause 6.2.3, the tables contained in TS 101 869-1, annex C apply without modifications of the status column.

A.4.4.5 Medium access control layer

In order to meet the requirements of EN 301 650, clause 6.2.4, the tables contained in TS 101 869-1, annex D apply without modifications of the status column.

A.4.4.6 Physical layer

The tables contained in TS 101 869-1, annex E apply without modifications of the status column.

A.4.4.7 Management Entity (ME)

In order to meet the requirements of EN 301 650, clause 6.2.5, the tables contained in TS 101 869-1, annex F apply with the following modification.

Table A.16: TS 101 869-1, table F.2: Management Entity features supported

Item	Feature name	Profile reference	Status WV.24	Status WLAN
1	Class 1 management	6.2.5	I	I

A.4.4.8 Application features

In order to meet the requirements of EN 301 650 [1], clause 6.2.6, the tables contained in TS 101 869-1 [7], annex G apply without modifications of the status column.

A.4.4.9 Interworking functions

In order to meet the requirements of EN 301 650 [1], the tables contained in TS 101 869-1 [7], annex I apply without modifications of the status column.

A.4.5 Distributed communication services

The supplier of the implementation, which is claimed to support the Distributed Communication services by answering "Yes" into the support column of the item 4 of the table A.11 shall complete this clause.

A.4.5.1 General

To conform to the portable termination requirements of EN 301 650 [1] for voice services, the supplier shall complete a copy of the corresponding part of the ICS proforma contained in TS 101 869-1 [7] updated with the requirements indicated in the part Distributed Communication services (see clause A.4.5 and subclauses) of this annex.

A.4.5.2 Distributed communications

In order to meet the requirements of EN 301 650 [1], clause 6.2.7, the tables contained in TS 101 869-1 [7], annex H apply with the following modification.

Table A.17: TS 101 869-1, Table H.2: Distributed communication features

Prerequisite: A.11/4.			
Item	**Feature name**	**Profile reference**	**Status**
1	Distributed Communications	6.2.7	M

A.4.6 Profile specific ICS Proforma

A.4.6.1 Profile specific procedures for Management Entity (ME)

Table A.18: Choice of Basic or Avanced connection

Prerequisite: Connection without U-plane needed			
Item	**Feature name**	**Profile reference**	**Status**
1	PT initiating; PT supports voice only; FT supports voice only or both data and voice; Basic connection chosen.	6.3.2	M
2	PT initiating; PT supports both data and voice; FT supports voice only; Basic connection chosen.	6.3.2	M
3	PT initiating; PT supports both data and voice; FT supports data only; Advanced connection chosen.	6.3.2	M
4	PT initiating; PT supports data only; FT supports data only or both data and voice; Advanced connection chosen.	6.3.2	M
5	PT terminating; PT supports both data and voice; Basic or Advanced connection is chosen by FT; PT shall accept the request.	6.3.2	M

Table A.19: Choice for establishing a new call with u-plane

Prerequisite: A connection is established for a call without U-plane and one of the sides would like to initiate a call using U-plane			
Item	**Feature name**	**Profile reference**	**Status**
1	Service change procedure.	6.3.2	O.a1901
2	Release of the old connection and setup the new connection.	6.3.2	O.a1901
O.a1901: At least one of these options shall be supported. The option 2 is recommended.			

A.4.6.2 Profile specific procedures for NWK layer

Table A.20: Subscription for terminal that supports both data and voice services

Prerequisite: Only one subscription for both data and voice services is allowed.			
Item	**Feature name**	**Profile reference**	**Status**
1	PTs shall indicate both services in the relevant <<Terminal capabilities>> information element fields in all messages used for subscription.	6.3.5	M

Annex B (informative): Bibliography

ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

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

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 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".

History

Document history		
V1.1.1	November 2000	Publication
V1.2.1	April 2003	Publication