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Digital Enhanced Cordless Telecommunications (DECT); Global System for Mobile communications (GSM); DECT/GSM Interworking Profile (IWP); Profile Implementation Conformance Statement (ICS); Part 2: Fixed radio Termination (FT)

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DECT/GSM Interworking Profile (IWP);
Profile Implementation Conformance Statement (ICS);
Part 2: Fixed radio Termination (FT)**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Digital Enhanced Cordless Telecommunications (DECT) Project of the European Telecommunications Standards Institute (ETSI).

The Digital Enhanced Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) Interworking Profile (IWP) Implementation Conformance Statement (ICS) standard comprises two parts:

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

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

Annex A contains the requirement lists for the FT DECT/GSM IWP.

Annex B contains the profile specific ICS proforma for the FT DECT/GSM IWP.

Transposition dates	
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1 Scope

This European Telecommunication Standard (ETS) provides the Profile Implementation Conformance Statement (Profile ICS) proforma for the DECT/GSM IWP at the Fixed radio Termination (FT) as defined in ETS 300 370 [4] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [11].

The supplier of an implementation which is claimed to conform to ETS 300 370 [4] depending on the class ARIs the implementation supports is required to complete:

- a copy of the PICS proforma ETS 300 476 Parts 4 to 7 [5] - [8], updated with the requirements from ETS 300 474-2 [9], and with the replacements from annex A of this ETS; and
- a copy of the Profile specific ICS proforma provided in annex B of this ETS.

If the implementation supports in addition to ARI class-D any of ARI-A, B, or, C classes, the supplier has to complete in addition a copy of ETS 300 474-2 [9] according to the GAP requirements.

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 300 175-5: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [2] ETS 300 444: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Generic Access Profile (GAP)".
- [3] ETS 300 466: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile Communications (DECT/GSM) interworking profile; General description of service requirements; Functional capabilities and information flows".
- [4] ETS 300 370: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications/Global System for Mobile communications (DECT/GSM) inter-working profile; Access and mapping (Protocol/procedure description for 3,1 kHz speech service)".
- [5] ETS 300 476-4: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network (NWK) layer - Fixed radio Termination (FT)".
- [6] ETS 300 476-5: "Radio Equipment and Systems (RES); 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)".
- [7] ETS 300 476-6: "Radio Equipment and Systems (RES); 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)".
- [8] ETS 300 476-7: "Radio Equipment and Systems (RES); Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer".

- [9] ETS 300 474-2: "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 2: Fixed radio Termination (FT)".
- [10] 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)).
- [11] ISO/IEC 9646-7 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statement".

3 Definitions and abbreviations

3.1 Definitions

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

- a) the terms defined in ISO/IEC 9646-7 [11];
- b) the definitions in ETS 300 370 [4];
- c) the definitions in ETS 300 466 [3]; and
- d) the following terms defined in ISO/IEC 9646-1 [10]:
 - PICS proforma;
 - Profile Implementation Conformance Statement (Profile ICS).

3.2 Abbreviations

For the purposes of this ETS, the abbreviations defined in ISO/IEC 9646-1 [10], the abbreviations defined in ETS 300 466 [3], ETS 300 370 [4], ETS 300 175-5 [1], and ETS 300 444 [2], apply.

4 Conformance requirement concerning Profile ICS

The supplier of a protocol implementation which is claimed to conform to the FT specific requirements of ETS 300 370 [4] shall verify that his protocol implementation meets the profile Requirements Lists (RLs) DECT Network (NWK) protocol layer, contained in annex A, shall complete a copy of the Profile specific ICS proforma provided in annex B and shall provide the information necessary to identify both the supplier and the implementation.

Annex A (normative): Requirement list for DECT FT**A.1 General**

The supplier of a protocol implementation which is claimed to conform to the FT specific requirements of ETS 300 370 [4] shall verify that his protocol implementation meets the profile RL.

For this, the supplier shall complete a copy of:

- a) the NWK layer PICS proforma contained in annex A of ETS 300 476-4 [5] if the client states support only for class D, updated with the GAP requirements for NWK layer from ETS 300 474-2 [9], and, updated with the requirements for NWK layer from this annex.

If the client states support for ARI class-D and any of classes A, B or C, then he shall complete two profile ICS Proformas: one for ARI class-D as stated above, and, one according to the requirements of ETS 300 474-2 [9];

- b) the DLC layer PICS proforma contained in annex A of ETS 300 476-5 [6] regardless of the class ARI, updated with the GAP requirements for DLC layer from ETS 300 474-2 [9];
- c) the MAC layer PICS proforma contained in annex A of ETS 300 476-6 [7] regardless of the class ARI, updated with the GAP requirements for MAC layer from ETS 300 474-2 [9];
- d) the PHL layer PICS proforma contained in annex A of ETS 300 476-7 [8] regardless of the class ARI, updated with the GAP requirements for PHL layer from ETS 300 474-2 [9].

A.1.1 Profile Requirement List (Profile RL)

The Profile RL for the NWK layer as defined in this subclause is based on ETS 300 476-4 [5] and ETS 300 474-2 [9]. For every capability the profile requirements are expressed by restriction upon allowed support answers in ETS 300 474-2 [9] depending on whether the implementation supports only ARI class D or ARI class D and any of ARI classes A, B or C. The Profile RL is produced by copying selected tables and/or table rows from ETS 300 474-2 [9] or ETS 300 476-4 [5] (e.g. if a table is not present in ETS 300 474-2 [9] because of having the same status as in ETS 300 476-4 [5]), 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 allowed values.

Profile status column

A profile status column is provided - for Fixed Parts (FPs) supporting only ARI class D.

NOTE: This column is also relevant for FPs supporting ARI class A and/or B and/or C (see clause A.1).

The standardized symbols for the status column are as follows:

m or M	mandatory - the capability is required to be supported.
o or O	optional - the capability may be supported or not.
n/a or N/A	not applicable - in the given context, it is impossible to use the capability.
x or X	prohibited (excluded) - there is a requirement not to use this capability in the given context.
oi or Oi	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 the general condition table below.
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.

Reference column

The reference column gives reference to ETS 300 370 [4], except where explicitly stated otherwise.

A.1.2 General questions/assumptions

This subclause contains general questions and/or assumptions that expand all over the Annex A.

Table A.1: General questions table

Item	Type ARI supported	Profile reference	Profile status	Profile support
1	Only ARI Class-D supported	5.4.1	o101	
2	ARI Class-D and any of classes A, B or C supported	5.4.1	o101	

o101: It is mandatory to support only one of these options.

Table A.2: General condition table

Condition identifier	Condition definition
Note 1	The status of the relevant item is exactly as the status of this item in ETS 300 474-2 [9] or ETS 300 476 Parts 4 to 7 [5] -[8] The item has been included as the Profile reference column include reference to the profile that describes the item more in details.

A.2 NWK layer - FT: Profile Requirement List (Profile RL)**A.2.1 Major capabilities****A.2.1.1 Call Control (CC) features**

To express the profile requirements of ETS 300 370 [4], the following table indicates the change of status for support of NWK layer CC features.

NOTE: Although the notation "features" is not an ETS 300 370 [4] notation, features have been used here as a higher level of grouping of procedures. For consistency reasons some features may comprise only one procedure.

Table A.3: ETS 300 474-2 [9] Table A.3: CC features supported

Item	Call Control features	Profile reference	Profile status ARI-D
1	Bell off (Alerting)	5.4.2, 6.1.1.1, 6.1.1.3	See table A.2
2	Bell on (Alerting)	5.4.2, 6.1.1.1, 6.1.1.3	See table A.2
5	Dialled digits	5.4.2, 6.1.1.1	See table A.2
7	Dialling delimiter	5.4.2, 6.1.1.1	m
8	Dialling delimiter request	5.4.2, 6.1.1.1	m
10	Emergency service access request	5.4.2, 6.1.1.2	m
11	External Handover (inter-cell)	5.4.2, 6.1.2.9	o
13	Go to DTMF (infinite tone length)	6.1.4.3	m
14	Go to DTMF signalling (defined tone length)	-	i
15	Go to Pulse	-	i
17	Incoming call	5.4.2, 6.1.1.3, 6.3.1.1.3	See table A.2
18	Internal call	-	i
19	Off hook	5.4.2, 6.1.1.1, 6.1.1.2, 6.1.1.3, 6.3.1.1.1	See table A.2
20	Obn hook (full release)	5.4.2, 6.1.1.4, 6.1.1.5, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.3.1.2	See table A.2
21	Outgoing call	5.4.2, 6.1.1.1, 6.1.1.2, 6.3.1.1.1, 6.3.1.1.2	See table A.2
23	Partial release	-	i
24	Pause (dialling pause)	-	i
25	Register recall	-	i
28	Service call	-	i