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European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Common Interface (CI);
Protocol Implementation Conformance Statement (PICS)
proforma;
Part 7: Physical layer**



Reference

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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 Public Enquiry phase of the ETSI standards Two-step Approval Procedure.

The present document is part 7 of a multi-part EN covering the Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma, as identified below:

- Part 1: "Network (NWK) layer - Portable radio Termination (PT)";
- Part 2: "Data Link Control (DLC) layer - Portable radio Termination (PT)";
- Part 3: "Medium Access Control (MAC) layer - Portable radio Termination (PT)";
- Part 4: "Network (NWK) layer - Fixed radio Termination (FT)";
- Part 5: "Data Link Control (DLC) layer - Fixed radio Termination (FT)";
- Part 6: "Medium Access Control (MAC) layer - Fixed radio Termination (FT)";
- Part 7: "Physical layer".**

Annex A contains the PICS proforma for the physical layer.

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 provides the Protocol Implementation Conformance Statement (PICS) proforma for the Digital Enhanced Cordless Telecommunications Network layer at the Portable Termination as defined in EN 300 175-2 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

The supplier of an implementation which is claimed to conform to EN 300 175-2 [2] is required to complete a copy of the PICS proforma provided in the annex A of the present document.

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.
- 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 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [2] EN 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [3] ISO/IEC 9646-1 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in EN 300 175-1 [1];
- terms defined in ISO/IEC 9646-1 [3] and in ISO/IEC 9646-7 [4].

In particular, the following terms defined in ISO/IEC 9646-1 [3] 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. 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.

The following definition also applies:

DECT Common Interface ICS: ICS for an implementation or system claimed to conform to a given DECT Common Interface specification.

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ISO/IEC 9646-1 [3], the Physical layer abbreviations defined in EN 300 175-2 [2], and the following abbreviations apply:

ICS	Implementation Conformance Statement
IUT	Implementation Under Test
len_b	length specified as BITSTRING
PICS	Protocol Implementation Conformance Statement
Sp.	support(ed)
SUT	System Under Test
val	value (of the field)

4 Conformance requirement concerning PICS

If it claims to conform to the present document, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

An ICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the instructions for completion given in clause A.1.

Annex A (normative): Physical (PH) layer PICS proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

A.1 Introduction for completing the PICS proforma

A.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the portable termination specific data link control layer requirements of EN 300 175-2 [2]; DECT PH layer may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into subclauses for the following categories of information:

- instructions for completing the PICS proforma;
- identification of the implementation;
- identification of the EN 300 175-2 [2]: DECT PH layer;
- PICS proforma tables:
 - global statement of conformance;
 - functional groups and procedures;
 - timers and protocol parameters;
 - messages;
 - information elements;
 - negotiation capabilities;
 - protocol error handling;
 - multilayer dependencies.

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

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?".

Status column

The following notations, defined in ISO/IEC 9646-7 [4], 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. |

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.
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 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 EN 300 175-2 [2]: PH layer, except where explicitly stated otherwise.

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 [4], 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)

In each context, the kind of "non-support" which is implemented at the receipt may be additionally indicated such as:

- Err the item is treated as a protocol error;
- lg the item is received and ignored (i.e. processed syntactically, but not semantically);
- rj the item is received and rejected.

NOTE: As stated in ISO/IEC 9646-7 [4], support for a PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

Values allowed column

The values allowed column contains the values or the ranges of values allowed.

Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated. When the length of a field or group of octets has been specified a specific notation has been used as "len_b" with meaning length specified as BITSTRING.

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.

A.1.2 Instruction for completing the PICS

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided using the notation described in subclause A.1.1. Specific instruction is provided (when necessary) in the text which precedes each table.

A.2 Identification of the implementation

A.2.1 Date of 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.

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 the table below.

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 the table below.

Table A.3: SUT identification

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

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 Contact person

A person who can answer queries regarding information supplied in the PICS 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 ETS DECT CI-Specification to which conformance is claimed, in the box below.

Table A.7: Identification of protocol

Identification of protocol	
Title of specification	Radio Equipment and Systems Digital Enhanced Cordless Telecommunications Common Interface Part 2: PPhysical Layer
Reference no.	ETS 300 175 Part 2
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 300 175-2 [2]: PH layer, in the table below.

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 300 175-2 [2]: PH layer, in the table below.

Table A.9: Addenda implemented

Addenda implemented	
Title	Reference no.

A.4 Global statement of conformance

An explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in subclause A.1.2.

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 <reference specification type> 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.5 Capabilities

A.5.1 Major capabilities

A.5.1.1 Services

The supplier of the implementation shall state the support of the implementation for each of the following PH layer services, in the table below.

Table A.11: IUT Type

Item	IUT Type	Reference	Status	Support
1	Portable Part	4	o1101	
2	Radio Fixed Part	4	o1101	

o1101: One of these items shall be supported.

Table A.12: PP Services supported

Prerequisite: A.11/1

Item	Service name	Reference	Status	Support
1	10 RF Carriers implemented	4.1.1	m	
2	Centre Freq of each is as defined in 4.1.1	4.1.1	m	
3	RF carrier accuracy is $F_c \pm 100$ kHz during 1s after transition from idle-locked state to active-locked state	4.1.2	m	
4	RF carrier accuracy is $F_c \pm 50$ kHz at other times	4.1.2	m	
5	RF carrier rate of change < 15 kHz per slot	4.1.2	m	
6	Reference timer accuracy and stability better than 25 ppm at extreme conditions	4.2.2	m	
7	PP jitter of a packet transmission < ± 2 μ s at extreme conditions	4.2.4	m	
8	Jitter between p0 and every other bit in a packet within $\pm 0,1$ μ s	4.2.4	m	

Table A.13: RFP Services supported

Prerequisite: A.11/2

Item	Service name	Reference	Status	Support
1	10 RF Carriers implemented	4.1.1	m	
2	Centre Freq of each is as defined in 4.1.1	4.1.1	m	
3	RF carrier accuracy is $F_c \pm 50$ kHz	4.1.2	m	
4	RF carrier rate of change < 15 kHz per slot	4.1.2	m	
5	Reference timer stability and accuracy better than 10 ppm at extreme conditions	4.2.2	m	
6	Multi channel RFP	4.2.2	o	
7	Reference timer stability and accuracy better than 5 ppm	4.2.2	c1301	
8	RFP jitter of a packet transmission < ± 1 μ s at extreme conditions	4.2.3	m	
9	Jitter between p0 and every other bit in a packet within $\pm 0,1$ μ s	4.2.3	m	
10	RFP's on same FP with handover provided	4.2.5	o	
11	System synchronization between RFP's on same FP: difference between reference timers < 4 μ s	4.2.5	c1302	
12	Inter system synchronization using synchronization port	4.2.6, Annex C	o	

c1301: IF A.13/6 THEN m ELSE n/a.
c1302: IF A.13/10 THEN m ELSE n/a.

A.5.1.2 Procedures

A.5.1.2.1 Physical layer procedures

The supplier of the implementation shall state the support of the implementation for each of the following PH layer procedures, in the table below.

Table A.14: Physical channels supported

Item	Procedure name	Reference	Status	Support
1	Short physical channel R00	4.5.2	m	
2	Basic physical channel R32	4.5.3	o1401	
3	The low-rate physical channel R08j	4.5.4	o1401	
4	The high capacity physical channel R80	4.5.5	o1401	
o1401: It is mandatory to support at least one of this options.				

Table A.15: PH layer procedures supported

Item	Procedure name	Reference	Status	Support
1	Addition of synchronization (S) field and transmission	8.1	m	
2	Addition of Z-field	8.1	o	
3	Packet reception and removal of synchronization (S) field	8.2	m	
4	Receipt of Z-field	8.2	o	
5	Measurement of signalling strength	8.3	m	
6	Synchronization pulse detection	8.4	m	
7	Timing adjustment	8.5	o	
8	Frequency adjustment	8.6	o	
9	Sliding collision detection	8.2	o	

A.5.1.2.2 Management entity procedures

The supplier of the implementation shall state the support of the implementation for each of the following management procedures, in the table below.

Table A.16: Management procedures supported

Item	Procedure name	Reference	Status	Support
1	List of quietest physical channels	9.1	m	
2	Physical channels with greatest field strength (PP only)	9.2	m	
3	Extract timing	9.3	m	

A.5.2 Protocol Data Units

The supplier of the implementation shall state the support of the implementation for each of the following PH layer protocol data units, in the tables below.

Table A.17: Frame structure supported

Item	Structure	Reference	Status	Support
1	TDMA frame structure	4.2.1	m	

Table A.18: Packet types supported

Item	Packet type	Reference	Status	Support
1	Short physical packet P00 transmission	4.4, 4.4.1	c1804	
2	Short physical packet P00 reception	4.4, 4.4.1	c1805	
2	Basic physical packet P32 transmission and reception	4.4, 4.4.2	c1801	
3	Low capacity physical packet P08j transmission and reception	4.4, 4.4.3	c1802	
4	High capacity physical packet P80 transmission and reception	4.4, 4.4.4	c1803	
c1801: IF A.14/2 THEN m ELSE n/a. c1802: IF A.14/3 THEN m ELSE n/a. c1803: IF A.14/4 THEN m ELSE n/a. c1804: IF A.11/2 THEN m ELSE o. c1805: IF A.11/1 THEN m ELSE o.				

Table A.19: P00 packet supported F to P

It.	P00 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'1010 1010 1010 1010'B	
2	Synchronization field (S) synchronization word	4.6	m		'1110 1001 1000 1010'B	
3	Data field (D)	4.7.1	m		len_b: 64 val: All	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.20: P00 packet supported P to F

It.	P00 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	o		'0101 0101 0101 0101'B	
2	Synchronization field (S) synchronization word	4.6	o		'0001 0110 0111 0101'B	
3	Data field (D)	4.7.1	o		len_b: 64 val: All	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.21: P32 packet supported F to P

Prerequisite: Table A.18/2						
It.	P32 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'1010 1010 1010 1010'B	
2	Synchronization field (S) synchronization word	4.6	m		'1110 1001 1000 1010'B	
3	Data field (D)	4.7.2	m		len_b: 388 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.22: P32 packet supported P to F

Prerequisite: Table A.18/2						
It.	P32 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'0101 0101 0101 0101'B	
2	Synchronization field (S) synchronization word	4.6	m		'0001 0110 0111 0101'B	
3	Data field (D)	4.7.2	m		len_b: 388 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.23: P08j (j=0) packet supported F to P

Prerequisite: Table A.18/3						
It.	P08j (j=0) packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'1010 1010 1010 1010'B	
2	Synchronization field (S) synchronization word	4.6	m		'1110 1001 1000 1010'B	
3	Data field (D)	4.7.2	m		len_b: 148 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.24: P08j (j=0) packet supported P to F

Prerequisite: Table A.18/3						
It.	P08j (j=0) packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'0101 0101 0101 0101'B	
2	Synchronization field (S) synchronization word	4.6	m		'0001 0110 0111 0101'B	
3	Data field (D)	4.7.2	m		len_b: 148 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.25: P80 packet supported F to P

Prerequisite: Table A.18/4						
It.	P80 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'1010 1010 1010 1010'B	
2	Synchronization field (S) synchronization word	4.6	m		'1110 1001 1000 1010'B	
3	Data field (D)	4.7.2	m		len_b: 868 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

Table A.26: P80 packet supported P to F

Prerequisite: Table A.18/4						
It.	P80 packet Name of field	Ref.	Status	Sp.	Value allowed	Value sp.
1	Synchronization field (S) preamble	4.6	m		'0101 0101 0101 0101'B	
2	Synchronization field (S) synchronization word	4.6	m		'0001 0110 0111 0101'B	
3	Data field (D)	4.7.2	m		len_b: 868 val: All	
4	Z-field	4.8	o		len_b: 4 val: Last 4 bits of the D-field	
NOTE: The values of the S-field subfields are denoted as the MSBs are to be placed in packet bits 0 and 16 respectively.						

A.5.3 Receiver/Transmitter characteristics

A.5.3.1 Transmitter characteristics

The supplier of the implementation shall state the support of the implementation for each of the following transmitter characteristics, in the table below.

Table A.27: Transmitter requirements supported

Item	Transmitter characteristic	Reference	Status	Support
1	Transmitter Attack Time < 10 μ s	5.2.1	m	
2	Transmitter Release Time < 10 μ s	5.2.2	m	
3	Transmitter Minimum Power > NTP - 1 dB	5.2.3	m	
4	Transmitter Maximum Power < NTP + 1dB	5.2.4	m	
6	Maintenance of transmission power for 0,5 μ s after packet end > NTP - 6 dB	5.2.5	m	
7	Transmitter Idle Power < 20 nW	5.2.6	m	
8	Peak Power Per Transceiver < 250 mW	5.3.1	m	
9	RF Carrier Modulation Gaussian Frequency Shift Keying	5.4	m	
10	Emissions Due to Modulation according to Table 1	5.5.1 Table 1	m	
11	Emissions due to Transmitter Transients according to Table 2	5.5.2 Table 2	m	
12	Emissions due to Intermodulation < 1 μ W	5.5.3	m	
13	Out of Band Emissions when Transmitting	5.5.4	m	

A.5.3.2 Receiver characteristics

The supplier of the implementation shall state the support of the implementation for each of the following receiver characteristics, in the table below.

Table A.28: Receiver requirements supported

Item	Receiver characteristic	Reference	Status	Support
1	Radio Receiver Sensitivity > -83 dBm	6.2	m	
2	Receiver Reference Bit Error Rate is 0,00001 in the D-field	6.3	m	
3	Receiver Interference Performance	6.4	m	
4	Rx Blocking (out-of-band, in slot signals)	6.5.1	m	
5	Rx Blocking (in band, out-of-slot signals)	6.5.2	m	
6	Rx Intermodulation Performance	6.6	m	
7	Out of band emissions when receiving or idling	6.7.1	m	
8	In DECT band emissions when receiving or idling	6.7.2	m	

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) Layer".
- EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) Layer".
- EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) Layer".
- EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and Addressing".
- EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security Features".
- EN 300 175-8: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 8: Speech Coding and Transmission".
- EN 300 175-9: "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); Common Interface (CI); Part 9: Public Access Profile (PAP)".
- ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- ETS 300 444 (1995): "Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)".

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