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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)

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Ta slovenski standard je istoveten z: **EN 300 476-5 Version 1.2.1**

ICS:

33.070.30 Öä äæ) ^/á à| lzæ) ^ Digital Enhanced Cordless
à!^: ç|cã} ^A^|^\ [{ ~ } ä æä Telecommunications (DECT)
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ETSI EN 300 476-5 V1.2.1 (2000-11)

European Standard (Telecommunications series)

**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)**

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT).

The present document is part 5 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 FT data link control layer.

National transposition dates	
Date of adoption of this EN:	24 November 2000
Date of latest announcement of this EN (doa):	28 February 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 August 2001
Date of withdrawal of any conflicting National Standard (dow):	31 August 2001

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Digital Enhanced Cordless Telecommunications Data Link Control layer at the Fixed Termination as defined in EN 300 175-4 [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 300 175-4 [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.

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- [1] ETSI EN 300 175-1: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview".
- [2] ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
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- [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".
- [5] ETSI ETS 300 651: "Digital Enhanced Cordless Telecommunications (DECT); Data Services Profile (DSP); Generic data link service (service type C, class 2)".

3 Definitions and abbreviations

3.1 Definitions

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

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

In particular, the following terms given 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

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ISO/IEC 9646-1 [3], the data link control layer abbreviations given in EN 300 175-4 [2], and the following apply:

ICS	Implementation Conformance Statement
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
SUT	System Under Test

4 Conformance requirement to this PICS specification

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.

A PICS 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.

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Annex A (normative): PICS proforma for DECT DLC FT

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 fixed termination specific data link control layer requirements of EN 300 175-4: DECT Data link control 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 300 175-4: DECT Data link control layer;
- PICS proforma tables:
 - global statement of conformance;
 - functional groups and procedures;
 - timers and protocol parameters;
 - messages;
 - information elements;
 - protocol error handling.

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.

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, 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 data link control layer) |
| 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 an 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.
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 300 175-4: Data link control 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, 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 receiving may be additionally indicated such as:

- Err the item is treated as a protocol error.
- Ig 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, 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. The range of value is defined as follows: [min value] to [max value]. Alternative values are defined as follows:

- [value1], [value 2], to [value n].

EXAMPLE: '00110000'B to '01001011'B is the value range
from '00110000'B to '01001011'B
'00110000'B, '01001011'B the value can be '00110000'B or '01001011'B.

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.

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.1.3 Guidances 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.1.2. Specific instruction is provided 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	SIST EN 300 476-5 V1.2.1:2003
IUT version	https://standards.iteh.ai/catalog/standards/sist/b2b766ff-ab93-4e75-8883-e0355dc77cf7/sist-en-300-476-5-v1-2-1-2003

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

IUT 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 identification

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	

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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

Table A.7: Identification of protocol

Identification of protocol	
Title of specification	Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer
Reference no.	EN 300 175-4
Date of Publication	

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.8: 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.

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A.5 Capabilities

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A.5.1 Major capabilities

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A.5.1.1 Services

Table A.9: Data link services

Item	Data link services	Ref.	Status	Support
1	C-plane services	5	o.	
2	U-plane services	11	o.	
o.: It is mandatory to support at least one of these options.				

Table A.10: C-plane services

Prerequisite: A.9/1				
Item	C-plane services	Ref.	Status	Support
1	Class U service	5.1	o.10	
2	Class A service	5.1	o.10	
3	Class B service	5.1	o.10	
4	Broadcast service	5.2, 9.4	o.10	
o.10: It is mandatory to support at least one of this options.				

Table A.11: U-plane services

Prerequisite: A.9/2				
Item	U-plane services	Ref.	Status	Support
1	LU1 - Transparent Unprotected service (TRUP)	11.2	o.11	
2	LU2 - Frame Relay service (FREL)	11.3	o.11	
3	LU3 - Frame Switching service (FSWI)	11.4	o.11	
4	LU4 - Forward error correction service (FEC)	11.5	c1101	
5	LU5 - Basic Rate Adaptation (BRAT) protected service	11.6	o.11	
6	LU5 - Basic Rate Adaptation (BRAT) unprotected service	11.6	o.11	
7	LU6 - Secondary Rate Adaptation service (SRAT)	11.7	c1102	
8	LU7 - 64kbit/s data bearer service with ARQ mechanism	11.9	c1103	
9	LU8 - 64kbit/s data bearer service without ARQ mechanism	11.10	o.11	
10	LU9 - Unprotected Rate Adaption for V series equipment (RAVE) Service	11.11	o.11	
11	LU10 - Enhanced Data Service	11.12	o.11	
12	LU16 - Escape for non-standard family (ESC)	11.8	o.11	
o.11: It is mandatory to support at least one of this options.				
c1101: The definitive specification of this service is for further study.				
c1102: IF A.11/6 THEN o ELSE x.				
c1103: IF 64kbit/s data service required THEN m ELSE n/a.				

Table A.12: Management services

Item	Management services	Ref.	Status	Support
1	MAC connection management	10.2	c1201	
2	DLC C-plane management	10.3	c1202	
3	DLC U-plane management	10.4	c1203	
4	Connection handover management	10.5	o	
5	Connection ciphering management	10.6	o	
c1201: IF A.9/1 OR A.9/2 THEN m ELSE n/a.				
c1202: IF A.9/1 THEN m ELSE n/a.				
c1203: IF A.9/2 THEN m ELSE n/a.				

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A.5.1.2 Procedures

A.5.1.2.1 Generic signalling procedures

Table A.13: Generic signalling procedures

Prerequisite: A.10/2 OR A.10/3				
Item	Generic signalling procedures	Ref.	Status	Supp.
1	Segmentation of NWK information	5.1.1, 7.7	m	
2	C _S channel fragmentation and recombination	6.1.2, 6.1.3, 6.1.4, 6.1.4.2	o.13	
3	C _F channel fragmentation and recombination	6.1.2, 6.1.3, 6.1.4, 6.1.4.1	o.13	
o.13: It is mandatory to support at least one of this options.				

A.5.1.2.2 Class U procedures

Table A.14: Class U procedures

Prerequisite: A.10/1				
Item	Class U procedures	Ref.	Status	Support
1	Class U link establishment	9.3.2	m	
2	Class U information transfer	9.3.3	m	
3	Class U link release	9.3.4	m	