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Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI);
Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network
(NWK) layer - Fixed radio Termination (FT)

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Ta slovenski standard je istoveten z: **EN 300 476-4 Version 1.2.1**

ICS:

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à: ^: ç: çã } ^/æ | ^ \ [{ ~ } ä æä Telecommunications (DECT)
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ETSI EN 300 476-4 V1.2.1 (2000-11)

European Standard (Telecommunications series)

**Digital Enhanced Cordless Telecommunications (DECT);
Common Interface (CI);
Protocol Implementation Conformance
Statement (PICS) proforma;
Part 4: Network (NWK) layer - Fixed
radio Termination (FT)**

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Reference

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Keywords

access, DECT, network, PICS, radio, testing

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Contents

Intellectual Property Rights	6
Foreword.....	6
1 Scope.....	7
2 References.....	7
3 Definitions and abbreviations.....	8
3.1 Definitions.....	8
3.2 Abbreviations.....	8
4 Conformance requirement concerning PICS.....	8
Annex A (normative): NWK PICS Proforma for FT	9
A.1 Introduction for completing the PICS proforma.....	9
A.1.1 Purposes and structure.....	9
A.1.2 Instruction for completing the PICS.....	11
A.2 Identification of the implementation.....	11
A.2.1 Date of statement.....	11
A.2.2 Implementation Under Test (IUT) identification	11
A.2.3 System Under Test (SUT) identification	12
A.2.4 Product supplier	12
A.2.5 Client.....	12
A.2.6 Contact person	12
A.3 Identification of the protocol.....	13
A.3.1 Defect report numbers and amendments implemented.....	13
A.3.2 Addenda implemented.....	13
A.4 Global statement of conformance.....	13
A.5 Capabilities.....	14
A.5.1 Major capabilities.....	14
A.5.1.1 Entities	14
A.5.1.2 CC features.....	15
A.5.1.3 MM features	16
A.5.1.4 SS features (services).....	17
A.5.1.5 LCE features.....	18
A.5.1.6 COMS features	18
A.5.1.7 Procedures	19
A.5.2 Messages.....	23
A.5.2.1 Call control messages.....	24
A.5.2.2 Mobility management messages	36
A.5.2.3 Connection-related & connection independent supplement service messages.....	46
A.5.2.4 Connection-oriented message service messages	50
A.5.2.5 ConnectionLess message service messages.....	54
A.5.2.6 Link control entity messages	55
A.5.3 Information elements.....	56
A.5.3.1 Fixed length information element support.....	57
A.5.3.2 Message headers supported	61
A.5.3.3 Variable length information element supported.....	73
A.5.3.4 Escape information elements support.....	111
A.5.3.5 B-Format message structure support.....	116
A.5.4 Protocol error handling.....	117
A.5.5 Protocol parameters.....	118
A.5.5.1 Timers and constants support	118
A.5.6 Multi-layer dependencies.....	119

Bibliography.....	121
History	122

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[SIST EN 300 476-4 V1.2.1:2003](https://standards.iteh.ai/catalog/standards/sist/edcb13f2-0426-4884-8370-e370cd8f1634/sist-en-300-476-4-v1-2-1-2003)

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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 4 of a multi-part deliverable 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 network 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 Network layer at the Fixed Termination as defined in EN 300 175-5 [5] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [9].

The supplier of an implementation which is claimed to conform to EN 300 175-5 [5] 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 300 175-2: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)".
- [3] ETSI EN 300 175-3: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) layer".
- [4] ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) layer".
- [5] ETSI EN 300 175-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [6] ETSI EN 300 175-6: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [7] ETSI EN 300 175-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features".
- [8] ISO/IEC 9646-1 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [9] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [10] ETSI EN 300 476-5: "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)".
- [11] ETSI EN 300 476-6: "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)".

- [12] ETSI EN 300 476-7: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer".

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 [8] and in ISO/IEC 9646-7 [9].

In particular, the following terms given in ISO/IEC 9646-1 [8] 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 given in ISO/IEC 9646-1 [8], the Network layer abbreviations defined in EN 300 175-5 [5], and the following apply:

ICS	Implementation Conformance Statement
IUT	Implementation Under Test
len_b	length specified as BITSTRING
len_o	length specified as OCTETSTRING
PICS	Protocol Implementation Conformance Statement
Sp.	support(ed)
Stat.	Status
SUT	System Under Test
val	value (of the field)
val_c	C-plane connection value
val_p_c	value parameter coding
val_u	U-plane connection value

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): NWK PICS Proforma for 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 NWK PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed NWK 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 network layer requirements of EN 300 175-5: DECT Network 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 300 175-5: DECT Network 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.

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 network 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 an 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.

Table A.1: General condition table

Condition identifier	Condition definition
c01	IF A.24/1 THEN m ELSE o
c02	IF A.20/8 THEN o ELSE n/a
c03	IF A.20/2 THEN o ELSE n/a
c04	IF A.18/3 THEN o ELSE n/a
c05	IF A.20/8 THEN m ELSE n/a
c06	IF A.20/2 THEN m ELSE n/a
c07	IF A.18/41 THEN o.101 ELSE n/a
c08	IF A.18/5 OR A.18/12 THEN m ELSE n/a
c09	IF A.27/29 THEN o ELSE n/a
c010	IF A.27/30 THEN o ELSE n/a
c011	IF A.28/29 THEN o ELSE n/a
c012	IF A.28/30 THEN o ELSE n/a
c013	IF A.18/21 THEN m ELSE o
c014	IF A.18/3 THEN m ELSE n/a
c015	IF A.18/40 THEN o.102 ELSE n/a
o.101	It is mandatory to support at least one of these options
o.102	It is mandatory to support at least one of these options

Reference column

The reference column gives reference to EN 300 175-5: Network 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 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, 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 and "len_o" with meaning length specified as OCTETSTRING.

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.

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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.

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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.2: 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.3.

Table A.3: 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.4.

Table A.4: SUT identification

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

A.2.4 Product supplier

Table A.5: Product supplier

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

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A.2.5 Client

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

Table A.6: 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.7: 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 EN DECT CI-Specification to which conformance is claimed, in table A.8.

Table A.8: Identification of protocol

Identification of protocol	
Title of specification	Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer
Reference no.	EN 300 175-5
Date of Publication	

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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 300 175-5: Network layer, in table A.9.

Table A.9: 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 300 175-5: Network layer, in table A.10.

Table A.10: 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.