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Digital Enhanced Cordless Telecommunications (DECT); DECT Authentication Module (DAM); Implementation Conformance Statement (ICS) proforma specification

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**ICS:**

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Implementation Conformance Statement (ICS)  
proforma specification**

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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).

Transposition dates	
Date of adoption:	23 May 1997
Date of latest announcement of this ETS (doa):	30 September 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 March 1998
Date of withdrawal of any conflicting National Standard (dow):	31 March 1998

## Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

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## 1 Scope

This European Telecommunication Standard (ETS) provides the Implementation Conformance Statement (ICS) proforma for the Digital Enhanced Cordless Telecommunications (DECT) Authentication Module (DAM) and portable equipment defined in ETS 300 331 [1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETS 300 406 [2].

## 2 Normative references

This ETS incorporates by dated and 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 300 331 (1995): "Radio Equipment and Systems (RES); Digital European Cordless Telecommunications (DECT); DECT Authentication Module (DAM)".
- [2] ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [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, symbols and abbreviations

### 3.1 Definitions

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

- terms defined in ETS 300 331 [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):** A 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:** A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

### 3.2 Symbols

For the purposes of this ETS, the following symbols apply:

- { } Optional data, e.g. "CLA, INS, P1, P2, P3 {, data}" indicates that data may or may not follow the CLA, INS, P1, P2, P3 bytes.

### 3.3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

DECT	Digital Enhanced Cordless Telecommunications
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
PE	Portable Equipment
SCS	System Conformance Statement
SUT	System Under Test
UAK	User Authentication Key

## 4 Conformance to this ICS proforma specification

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

An ICS which conforms to this ETS shall be a conforming ICS proforma completed in accordance with the guidance for completion given in clause A.1.

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**Annex A (normative): ICS proforma for ETS 300 331**

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

**A.1 Guidance for completing the ICS proforma****A.1.1 Purposes and structure**

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ETS 300 331 [1] may provide information about the implementation in a standardized manner.

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

- guidance for completing the ICS proforma;
- identification of the implementation;
- identification of the standard;
- global statement of conformance;
- roles;
- DECT Authentication Module (DAM):
  - physical characteristics:
    - format and layout:
      - ID-1 card;
      - plug-in card;
    - Contacts;
  - electronic signals and transmission protocols:
    - supply Voltage Vcc (contact C1);
    - Reset RST (contact C2);
    - Clock CLK (contact C3);
    - I/O (contact C7);
    - states;
    - Answer To Reset (ATR):
      - ATR: TC1 parameter values;
  - logical model:
    - file identifier;
    - dedicated files;
    - elementary files;
    - methods for selecting the DECT application;
    - reservation of file IDs:
      - DFs;
      - EFs;
  - security services and facilities:
    - algorithms and processes;
    - authentication;
    - UAK allocation;
    - file access control;
  - description of the functions;
  - description of the commands:
    - mapping principles;
    - coding of the commands;
    - definitions and coding;
    - status conditions returned by the DAM:
      - coding of the status words;
      - commands versus possible status responses;
  - contents of the elementary files:
    - contents of the EFs at the MF level:
      - optional data parameters in EF<sub>ICC</sub>;
      - optional data parameters in EF<sub>ID</sub>;
      - optional data parameters in EF<sub>NAME</sub>;
      - optional data parameters in EF<sub>DIR</sub>;

- optional data parameters in EF<sub>LANG</sub>;
- contents of the EFs at the parent level of the DECT application;
- contents of the EFs at the DECT application level:
  - optional data parameters in EF<sub>LSR</sub>;
- contents of the EFs at the subscription registration level:
  - DF<sub>SR1</sub>:
    - optional data parameters in EF<sub>PARK</sub>;
    - optional data parameters in EF<sub>UAK</sub>;
    - optional data parameters in EF<sub>AC</sub>;
  - DF<sub>SR2</sub>:
    - optional data parameters in EF<sub>PARK</sub>;
    - optional data parameters in EF<sub>UAK</sub>;
    - optional data parameters in EF<sub>AC</sub>;
- DECT Portable Equipment (PE):
  - physical characteristics;
  - electronic signals and transmission protocols:
    - supply Voltage Vcc (contact C1);
    - Reset RST (contact C2);
    - programming Voltage Vpp (contact C6);
    - Clock CLK (contact C3);
    - I/O (contact C7);
    - states;
    - Answer To Reset (ATR);
  - logical model:
    - methods for selecting the DECT application;
  - description of the commands:
    - mapping principles;
    - coding of the commands;
  - application protocol:
    - general procedures;
    - DAM management procedures;
    - CHV related procedures;
    - authentication procedures;
    - UAK allocation;
    - general information procedures;
    - subscription registration maintenance.

### A.1.2 Abbreviations and conventions

The ICS 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	mandatory - the capability is required to be supported.
o	optional - the capability may be supported or not.
n/a	not applicable - in the given context, it is impossible to use the capability.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
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	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.

**Reference column**

The reference column gives reference to ETS 300 331 [1], 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).

If this ICS proforma is completed in order to describe a multiple-profile support in a system, it is necessary to be able to answer that a capability is supported for one profile and not supported for another. In that case, the supplier shall enter the unique reference to a conditional expression, preceded by "?" (e.g. ?3). This expression shall be given in the space for comments provided at the bottom of the table. It uses predicates defined in the SCS, each of which refers to a single profile and which takes the value TRUE if and only if that profile is to be used.

EXAMPLE 1:               ?3:    IF prof1 THEN Y ELSE N

It is also possible to provide a comment to an answer in the space provided at the bottom of the table.

**References to items**

For each possible item answer (answer in the support column) within the ICS proforma exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 2:               A.5/4 is the reference to the answer of item 4 in table A.5 of annex A.

EXAMPLE 3:               A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6 of annex A.

### Prerequisite line

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

A prerequisite line after 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 Instructions 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 boxes provided, using the notation described in subclause A.1.2.

However, the tables containing in the "DECT Authentication Module" subclause shall only be completed for DAM implementations, and the tables containing in the "DECT Portable Equipment" subclause shall only be completed for PE implementations.

If necessary, the supplier may provide additional comments in space at the bottom of the tables, or separately on sheets of paper.

More detailed instructions are given at the beginning of the different subclauses of the ICS proforma.

## A.2 Identification of the implementation

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.

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#### A.2.1 Date of the statement

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#### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

**A.2.3 System Under Test (SUT) identification**

SUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

Operating system:

.....

**A.2.4 Product supplier**

Name:

.....

Address:

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