SLOVENSKI STANDARD
SIST EN 301 363 V1.1.2:2003

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Svetovne osebne telekomunikacije (UPT) ï UPT, faza 2 ï Funkcijska specifikacija vmesnika ļ ipovne kartice (ICC) sistema UPT ter terminalov javnega komutiranega telefonskega omreģja (PSTN), digitalnega omreģja z integriranimi storitvami (ISDN) in globalnega sistema mobilnih komunikacij (GSM) (enkratna in veļ kratna avtentikacija) ï Specifikacija za preskuģanje skladnosti

Universal Personal Telecommunication (UPT); UPT phase 2; Functional specification of the interface of a UPT Integrated Circuit Card (ICC) and Public Switched Telephone Network (PSTN), Integrated Services Digital Network (ISDN) and Global System for Mobile communications (GSM) terminals (one pass and multiple pass authentication); Conformance test specification

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ICS:

33.040.35	Telefonska omrežja	Telephone networks
33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)

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European Standard (Telecommunications series)

Universal Personal Telecommunication (UPT); UPT phase 2; Functional specification of the interface of a UPT Integrated Circuit Card (ICC) and Public Switched Telephone Network (PSTN), Integrated Services Digital Network (ISDN) and Global System for Mobile communications (GSM) terminals (one pass and multiple pass authentication); Conformance test specification

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Contents

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Network Aspects (NA).

National transposition dates	
Date of adoption of this EN:	16 April 1999
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Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2000
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1 Scope

The present document provides the test specification for the Universal Personal Telecommunication (UPT) card and the Card Accepting Device (CAD) defined in ETS 300 823 [1].

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] ETS 300 823 (1997): "Universal Personal Telecommunication (UPT); UPT phase 2; Functional specification of the interface of a UPT Integrated Circuit Card (ICC) and Public Switched Telephone Network (PSTN), Integrated Services Digital Network (ISDN) and Global System for Mobile Communications (GSM) terminals (one pass and multiple pass authentication)".

[2] EN 301 366: "Universal Personal Telecommunication (UPT); UPT phase 2; Functional specification of the interface of a UPT Integrated Circuit Card (ICC) and Card Accepting Devices (CAD); UPT card accepting Dual Tone Multiple Frequency (DTMF) device; Conformance test specification".

[3] ISO 8859-1 (1998): "Information technology; 8-bit single-byte coded graphic character sets; Part 1: Latin alphabet No. 1".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions in addition to the terms defined in ETS 300 823 [1] 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.

3.2 Symbols

For the purposes of the present document, the symbols of EN 301 366 [2] apply.

3.3 Abbreviations

For the purposes of the present document the following abbreviation in addition to the abbreviations of EN 301 366 [2] apply:

RAND Random challenge sent by the network to be used for authentication.

4 UPT Integrated Circuit Card part

4.1 Test environment

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "PIM" is replaced by "PIM2";
- in subclause 4.4 "DF_{UPT}" is replaced by "DF_{UPT2}".

4.2 Test group hierarchy

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2".

4.3 Test procedure

For this subclause, the same text as in EN 301 366 [2] is valid.

4.3.1 Physical characteristics

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2".

4.3.2 Electronic signals and transmission protocols

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2".

4.3.3 Logical model

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2";
- in subclauses 4.3.3.2 and 4.3.3.4 "DF_{UPT}" is replaced by "DF_{UPT2}";
- in subclause 4.3.3.4.2 "EF_{SEQ}" is deleted.

4.3.4 Security services and facilities

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2";
- "DF_{UPT}" is replaced by "DF_{UPT2}";
- the subclauses 4.3.4.1.4 and 4.3.4.1.5 are replaced by the following ones:

4.3.4.1.4 Method of test

Initial conditions:

1) the PIM is connected to a CAD simulator;
2) CHV1 on the PIM is set to '0000';
3) three VERIFY CHV1 attempts and ten UNBLOCK CHV1 attempts remain.

Test procedure:

a) the CAD simulator resets the PIM;

b) the CAD simulator selects DF_{UPT} as defined in subclause 4.4;

c) the CAD simulator sends a VERIFY CHV command with **incorrect** CHV1 '1111' to the PIM;

d) the CAD simulator sends VERIFY CHV command with **incorrect** CHV1 '1111' to the PIM;

e) the CAD simulator sends VERIFY CHV command with **incorrect** CHV1 '1111' to the PIM;

f) the CAD simulator sends a SELECT command to the PIM to select EF_{CT};

g) the CAD simulator sends a READ BINARY;

h) the CAD simulator sends a SELECT command to the PIM to select EF_{PUI};

i) the CAD simulator sends a READ BINARY;

j) the CAD simulator sends a INTERNAL AUTHENTICATION command to the PIM containing the number '12345678';

k) the CAD simulator sends a VERIFY CHV command with correct CHV1 '0000' to the PIM;

l) the CAD simulator sends a SELECT command to the PIM to select EF_{CHV1};

m) the CAD simulator sends an UNBLOCK CHV command to the PIM;

n) the CAD simulator sends a VERIFY CHV command with correct CHV1 '0000' to the PIM.

4.3.4.1.5 Test requirement

1) After step e) the status condition returned by the PIM shall be SW1='98', SW2='40' - unsuccessful CHV verification, verify CHV mechanism no longer possible.

2) After steps g), i) and j) the status condition returned by the PIM shall be SW1='98', SW2='04' - access condition not fulfilled.

3) After step k) the status condition returned by the PIM shall be SW1='98', SW2='40' - CHV blocked.

4.3.5 Description of the functions

For this subclause, the same text as in EN 301 366 [2] is valid.

4.3.5.1 SELECT function

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2";
- "DF_{UPT}" is replaced by "DF_{UPT2}";
- in subclause 6.5.10.4, m) "EF_{SEQ}" is deleted.

4.3.5.2 READ BINARY function

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2";
- "DF_{UPT}" is replaced by "DF_{UPT2}".

4.3.5.3 UPDATE BINARY function

For this subclause, the same text as in EN 301 366 [2] is valid with the following modifications:

- "ETS 300 477" is replaced by "ETS 300 823 [1]";
- "PIM" is replaced by "PIM2";
- "DF_{UPT}" is replaced by "DF_{UPT2}";
- the subclauses 4.3.5.3.4 and 4.3.5.3.5 are replaced by the following ones:

4.3.5.3.4 Method of test

Initial conditions:

1) the PIM is connected to a CAD simulator;
2) EF_{TV} contains the data string: '11 22';
3) CHV1 is enabled.