SLOVENSKI STANDARD
SIST ETS 300 011/A2 E1:2003

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8][ ]H˘bc˙ca fŸ/Y˙n˙]bhY[f]fUb]a]˙ghcf]hj Ua]˙f4G8 BŁË˙Df]a U˘b]˙j a Ygb]_˙i dcfUVb]_!
ca fŸ/Y˙Ë˙GdYW̧_UY˙U˙dfj Y˙d`Ugh˙]b˙bU Y˙U˙dfYg_i ýUb/U

Integrated Services Digital Network (ISDN); Primary rate user-network interface; Layer 1 specification and test principles

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Ta slovenski standard je istoveten z: **ETS 300 011/A2 Edition 1**

ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)

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ETS 300 011

AMENDMENT

A2

March 1996

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Key words: ISDN, user-network interface, testing

**This amendment A2 modifies
the European Telecommunication Standard ETS 300 011 (1992)**

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Integrated Services Digital Network (ISDN);

Primary rate user-network interface;

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Foreword

This amendment to ETS 300 011 (1992) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This second amendment incorporates the changes introduced by Amendment 1 (1994) to ETS 300 011. Newly introduced modifications are indicated by a revision bar located at the left margin.

This second amendment adds a new annex F and related references, definitions and abbreviations to ETS 300 011.

Transposition dates	
Date of adoption of this amendment:	22 September 1995
Date of latest announcement of this amendment (doa):	30 June 1996
Date of latest publication or endorsement of this amendment (dop/e):	31 December 1996
Date of withdrawal of any conflicting National Standard (dow):	31 December 1996

Amendments

Page 12, clause 2

Add the following references to the Normative references clause (clause 2):

[16]   CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".

[17]   CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

[18]   ISO/IEC 9646-1 (1991): "OSI   Conformance   Testing   Methodology   and Framework Part 1: General Concepts".

[19]   ISO/IEC 9646-2 (1991): "OSI   Conformance   Testing   Methodology   and Framework Part 2: Abstract Test Suite Specification".

[20]   ISO/IEC 9646-5 (1991): "OSI   Conformance   Testing   Methodology   and Framework   Part 5: Requirements   on   test   laboratories   and   clients   for   the conformance assessment process".

Page 13, clause 3

Add the following definitions to the definitions clause (clause 3):

Integrated Services Digital Network (ISDN):   See   CCITT   Recommendation I.112 [16],   § 2.3, definition 308.

basic access: See CCITT Recommendation Q.9 [17], § 1, definition 1551.

Protocol Implementation Conformance Statement (PICS): See ISO/IEC 9646-1 [18], § 3.4.6.

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Page 14, clause 4

Add the following abbreviations to the abbreviations clause (clause 4):

HDLC	High level Data Link Control
IUT	Implementation Under Test
PCTR	Protocol Conformance Test Report
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
RSE	Remote Single layer Embedded
SCS	System Conformance Statement
SCTR	System Conformance Test Report

Page 17, table 1, table entry 3.4.6

Replace the text "<NOTE b) to table 2/I.431 is not relevant>" by the following:

Clause/ subclause	Title/comment	Statement
3.4.6	State tables <Replace NOTE b) to table 2/I.431 by the following: NOTE b): The primitives MPH-AI, PH-AI and MPH-DI shall only be issued when the relevant condition persists. The persistency check procedure is defined in table 1/I.431, § 5.9.3.2.3. Add a new NOTE d) to table 3/I.431: NOTE d): The primitives MPH-AI, PH-AI and MPH-DI shall only be issued when the relevant condition persists. The persistency check procedure is defined in table 1/I.431, § 5.9.3.3.3.>	N

Page 18, table 1, table entry 5.3

Add the following text to the end of the table entry for 5.3:

	In order to limit the impact on the service performance following a loss of clock synchronization, the maximum time for resynchronization to network clock shall be less than 30 seconds, with the frequency deviation applied to the input port limited to ± 1 ppm.	
5.4	Jitter	I

Pages 73 and 74, subclause C.4.4, "Results:"

Replace the text of subclause C.4.4, "Results:" with the following (modifies stimulus 7 and 8 only):

Results: As listed below.

```
STIMULUS                          MONITOR                     COMMENT

FRAME B                           (see *)
   #                              NOF
/FAS,BIT 2 = 1,/FAS,BIT 2 = 1
/Fas,BIT 2 = 1                    RAI                         Initial condition
MF A                              NOF
4 X MF B                          RAI                         No multiframe alignment
MF A                              NOF

37 X MF B                         NOF, transition to RAI and  2 MFAS within 8ms in
                                  back to NOF (see **)        the limit of 100ms
MF A, MF B, MF A, MFB, MFA, MFB   NOF
MF B                              NOF
   # 251                          Stable NOF                  No RAI 500ms after a loss of
                                                              multiframe alignment


/FAS,BIT 2 = 1,/FAS,BIT 2 = 1
/FAS,BIT 2 = 1                    RAI                         Initial condition
MF B                              NOF                         Correct frame alignment but
                                                              not multiframe alignment
   # 250                                                      No multiframe alignment
MF B                              RAI                         within 500ms
MF A, 4 X MF B                    RAI
MF A, 2 X MF B, MF A                                          Undefined condition
MF A, 2 X MF B, 2 X MF A          NOF                         Multiframe alignment reached
MF B, MF A                        NOF
   #
```

*   This stimulus shall be repeated in order to allow clock synchronisation of the IUT, the time taken to synchronise may be dependant on the implementation.

**   RAI or NOF depending on the implementation options described in CCITT Recommendation G.706 [4].

Page 178, addition of new annex F

Add the following annex F to the end of the document:

Annex F (normative): System Conformance Statement (SCS), Protocol Implementation Conformance Statement (PICS) and Protocol Implementation eXtra Information for Testing (PIXIT) for interface points I$_a$ and I$_b$

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 SCS, PICS and PIXIT proforma in this annex so that they can be used for their intended purposes and may further publish the completed SCS, PICS and PIXIT proforma.

F.1 SCS proforma for interface point I$_a$ (TE)

F.1.1 Introduction

A client who requests a conformance test shall provide to the test laboratory a System Conformance Statement (SCS) and a client checklist. The proforma in this clause may be used to present this SCS.

The main purpose of the SCS is to identify the client organization and the test candidate.

The purpose of the client checklist is to provide a record of test-related information.

F.1.2 Proforma structure and content

The proforma consist of the following tables containing pre-printed guide text:

- **client organization:** for identification of the client organization;

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- **test candidate:** for identification and itemizing of the test candidate;

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- **test status of the test candidate and testing claims:** for indication of the test status of the test candidate, summarizing of the testing claims, provision of references to associated System Conformance Test Report (SCTR) and Protocol Conformance Test Report (PCTR), and specification of the protocols implemented in the test candidate;

- **client checklist:** for provision of a record of test-related information.

F.1.3 Filling in guidance

The pre-printed guide text in the proforma indicates the kind of information to be filled in by the client.

Table F.1

Client organization

Client name
Street/No.:
Postal code/City:
Country:
Telephone:
Telefax:
Telex:
Teletex:

Client manager
Name:
Location:
Telephone:

Contact person
Name:
Location:
Telephone:

Additional information

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Table F.2

Test candidate			
Test candidate identification: Name	Model	Version	Serial number
Configuration (identify/describe separate units (e.g. scanner, keyboard, printer, etc.).			

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Table F.3

Test status of the test candidate and testing claims			
Layer 1 test status and testing claims Answer by Yes(=Y) or No(=N) according to the claims:			
Tested before? (note)	Test wanted?	PCTR wanted?	Log wanted?
NOTE: If "Yes" in the left column "Tested before?", indicate references to existing test documents (if tested at another test laboratory the existing test documents should be made available to the current test laboratory)			
SCTR		PCTR	
Test candidate reference (short identification):			
Layer 1 implementation Identify layer 1 component			
Name		Version	
Other information (indicate any other information that may itemize the test candidate or the testing claims):			

Table F.4

Client checklist	
Reference: subclauses/notes of subclause 6.3.1.3 of ISO/IEC 9646-5 [20]. Details may be specified in the appropriate PIXIT(s) and reference(s) to the relevant PIXIT(s) indicated in this checklist.	
Ref. a)	COMPLIANCE WITH ISO/IEC 9646-5 [20] (list exceptions, if any):
Ref. b)	The information (specification of the test candidate, protocols to be tested) is given in tables F.2 and F.3.
Ref. c)	The Remote Single layer Embedded (RSE) test method is used implying that the degree of terminal equipment testability is sufficient.
Ref. d)	Test co-ordination procedures (explain the procedures suitable for use with the test candidate, and which correspond to the RSE test method or indicate references to clauses of manuals etc. giving such explanations):
Ref. NOTE a:	Physical requirements and other practical information (indicate any physical test requirements (space, air conditioning etc.) as well as any other information that may be needed/useful):
Ref. NOTE b:	The information on whom to contact during the conformance assessment process is given in table F.1.