



SLOVENSKI STANDARD
SIST ETS 300 012/A1 E1:2003

01-december-2003

8][]hUbc[ca fYyY'n]bhY[f]fUb]a]'gkcf]hj Ua]fHG8 BŁE'Cgbcj b]j a Ygb]_i dcfUWb]_!
ca fYyY'Ë'GdYWZ_UW'Udfj Y'd'Ugh]b'bU YUdfYg_i ýUb'U

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

iTeh STANDARD PREVIEW
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[ETS 300 012/A1 Edition 1](https://standards.iteh.ai/catalog/standards/sist/c0d42d79-8b79-46d3-b4cc-f8b754c920bf/sist-ets-300-012-a1-e1-2003)
<https://standards.iteh.ai/catalog/standards/sist/c0d42d79-8b79-46d3-b4cc-f8b754c920bf/sist-ets-300-012-a1-e1-2003>

ICS:

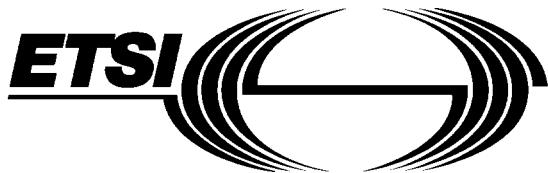
33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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AMENDMENT

**ETS 300 012
A1**

December 1994

Source: ETSI TC-TM

Reference: RE/TM-03039

ICS: 33.080, 33.040.50

Key words: ISDN, user network interface, testing

This amendment A1 modifies
the European Telecommunication Standard ETS 300 012 (1992)
The STANDARD PREVIEW
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**Integrated Services Digital Network (ISDN);
Basic user-network interface
Layer 1 specification and test principles**

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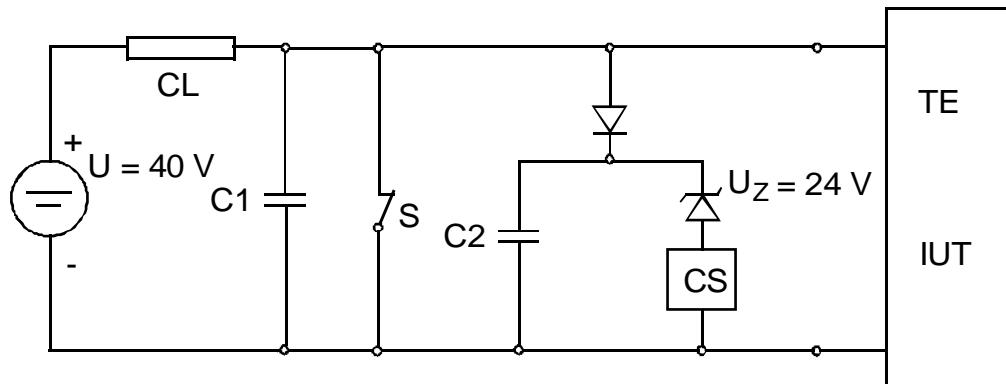
Foreword

This Amendment to ETS 300 012 (1992) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Amendments

Page 18, figure 3

Replace figure 3 with the following figure:



U_Z : Zener voltage

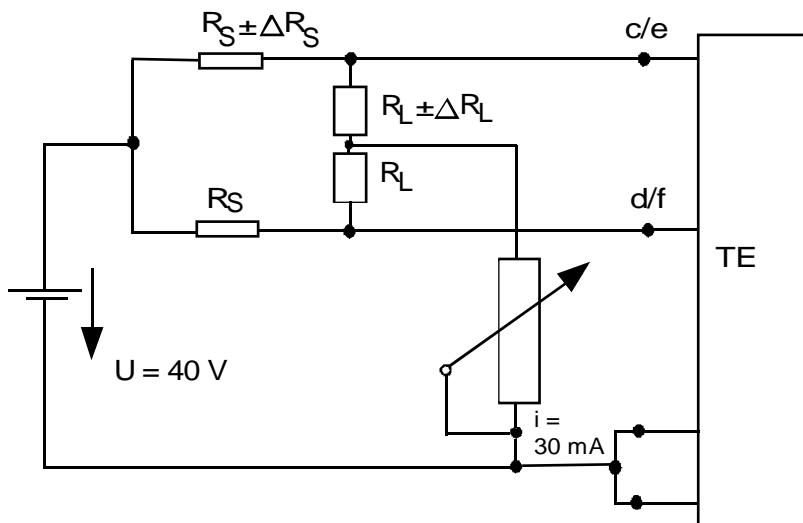
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Figure 3: Power start up test for TE
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Page 22, figure 7 <https://standards.iteh.ai/catalog/standards/sist/c0d42d79-8b79-46d3-b4cc-f8b754c920bf/sist-cts-300-012-a1-e1-2003>

Replace figure 7 with the following figure:



$R_S = 6 \Omega$	$\Delta R_S = 360 \text{ m}\Omega$
$R_L = 5 \Omega$	$\Delta R_L = 300 \text{ m}\Omega$

$$X = \frac{\Delta R_S}{2R_S} = \frac{\Delta R_L}{2R_L}$$

Figure 7: Test circuit for applied current unbalance

Page 4**ETS 300 012: April 1992/A1: December 1994****Page 26, table A.1, table entry A.5.3.2**

Replace the table entry A.5.3.2 with the following:

A.5.3.2	TEs not powered across the interface <The following text is added: A TE using the automatic assignment procedure shall implement the disconnect detector for detection of power source 1 or 2 to establish the connection status.		
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Page 29, table A.1, table entry A.6.2.6.1

Replace the final paragraph for table entry A.6.2.6.1 with the following:

	<In both paragraphs the term "INFO2" shall be replaced (four times) by: "INFO2 or INFO4">		
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iTeh STANDARD PREVIEW**Page 31, table A.1, table entry A.8.5.4 (standards.iteh.ai)**

The statement ("St.-ment") for table entry A.8.5.4 shall be changed to "I" (Informative), as follows:

Clause/ subclause	Title <Comment> https://standards.iteh.ai/catalog/standards/sist/c0d42d79-8b79-46d3-b4ce-18b754c920bf/sist-cts-300-012-a1-e1-2003	St.- ment
A.8.5.4	Pulse unbalance <The text under this subclause is replaced by:	I

Page 46, subclause D.1.4.4

Replace the fourth instance of "N/R" with "D.3.2.2.1.1", producing a table as follows:

Modes	Clause/ subclause	Test defined in Clause/subclause
Types of wiring configuration	A.4	N/R
Point-to-point configuration	A.4.1	N/R
Point-to-multipoint	A.4.2	N/R
configuration		
Polarity Integrity (figure 2/I.430 [2])	A.4.3	D.3.2.2.1.1
Interface Ia	A.4.4	N/R
TE associated wiring	A.4.5	N/R

Page 50, subclause D.1.4.11

Replace the final instance of "N/R" with "D.5.1.4.1" and add test for Annex B, Clause B.6, producing a table as follows:

Requirements	Clause/ subclause	Test defined in Clause/subclause
Test loopbacks defined for the basic user-network interface	Annex A App. I	N/R
Additional requirements applicable to the explicit S reference point	B.1 to B.5 B.6	N/R D.5.1.4.2
TE design to minimise power disturbance	Annex C	D.5.1.4.1

Page 57, subclause D.3.2.1

Replace the table in subclause D.3.2.1 with the following table (modifying states 9, 16, 22, 40 and 46 and adding NOTE 9):

Table to subclause D.3.2.1

STATE NO	CURRENT STATE	STIMULUS	NOTE	NEXT STATE	INFO SENT	COMMENT
1	F1	Power	1	F2	I0	Detection of power
2	F1	T3 expires	2/6	F1	I0	No action
3	F2	Loss of Power		F1	I0	Return to inactive state
4	F2	Rx INFO 0	4	F3	I0	Assume deactivated state
5	F2	RX INFO 2		F6	I3	Synchronised state
6	F2	Rx INFO 4		F1	I3	Activated
7	F2	Rx any signal	3	F2	I0	No action
8	F2	T3 expires	6	F2	I0	No action
9	F3	Loss of Power	9	F1	I0	Return to inactive
10	F3	PH-AR		F4	I1	Initiate activation & T3
11	F3	Rx INFO 0	4	F3	I0	No action
12	F3	Rx INFO 2		F6	I3	Synchronised state
13	F3	Rx INFO 4		F7	I3	Activated
14	F3	Rx any signal	3	F3	I0	No action
15	F3	T3 expires	2	F3	I0	No action
16	F4	Loss of Power	9	F1	I0	Return to inactive state
17	F4	Rx INFO 0	4	F4	I1	No action
18	F4	Rx INFO 2	7	F6	I3	Synchronised
19	F4	Rx INFO 4	7	F7	I3	Active
20	F4	Rx any signal	3	F5	I0	Detection of signal
21	F4	T3 Expires	2	F3	I0	Deactivated
22	F5	Loss of Power	9	F1	I0	Return to inactive
23	F5	Rx INFO 0	4	F5	I0	No action
24	F5	Rx INFO 2		F6	I3	Synchronised
25	F5	Rx INFO 4		F7	I3	Activated
26	F5	Rx any signal	3	F5	I0	No action
27	F5	T3 Expires	2	F3	I0	Deactivated
28	F6	Loss of Power	8	F1	I0	Return to inactive
29	F6	Lost Framing		F8	I0	Loss of framing signals
30	F6	PH-AR		F6	I3	No action

(continued)

Table to subclause D.3.2.1 (concluded)

Page 58, subclause D.3.2.2.1.1

Replace the title of subclause D.3.2.2.1.1 with the following title:

D.3.2.2.1.1 Test A, in state F3 (subclauses A.4.3 and A.6.2.6.1, ETS 300 012)**Page 58, subclause D.3.2.2.1.1**

Replace the paragraph "Stimulus:" with the following text:

Stimulus: INFO 2 type frames from the network. This test shall be performed with both normal and reversed polarity of the interchange circuit (NT to TE direction).

Page 68, subclause D.3.3

Replace the results and notes 3 and 4 with the following:

Results:

STIMULUS	RESULTS	COMMENTS
a) 1 bad frame	INFO 3	No loss of framing
b) 5 bad frames	INFO 0	Framing lost
c) 2 good frames	INFO 0	Framing not regained
d) 6 good frames (note 3)	INFO 3	Framing regained within 5 frames

NOTE 3: Before the test, the TE shall be in state F8. The input shall be applied with "Any signal". Multiframing is not covered by this test.

Page 73, subclause D.4.2

Replace the first paragraph of subclause D.4.2, with a subclause heading as follows:

D.4.2.1 TE jitter measurement characteristics (test A) (subclause A.8.2.2, ETS 300 012)