SLOVENSKI STANDARD
SIST TBR 004 E1:2004/A1:2004

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Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access

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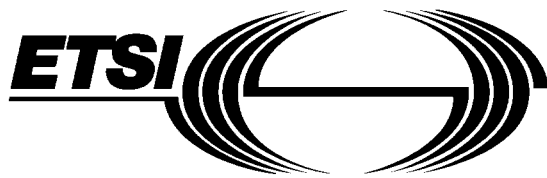
ICS:

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

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TBR 4

AMENDMENT

A1

December 1997

Source: BTC

Reference: RTBR/BTC-02075

ICS: 33.020

Key words: ISDN, primary, rate, terminal, testing

This amendment A1 modifies

the Technical Basis for Regulation TBR 4 (1995)

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Integrated Services Digital Network (ISDN);

SIST TBR 004 E1:2004/A1:2004

Attachment requirements for terminal equipment to connect
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to an ISDN using ISDN primary rate access

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Foreword

This amendment to Technical Basis for Regulation (TBR) has been produced by the Business TeleCommunications (BTC) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This amendment should be considered as an urgent technical correction.

The amendment has been produced at the request of the Approvals Committee for Terminal Equipment (ACTE) and:

- contains amendments to the requirements as determined by the special group of the ISDN Type Approval Advisory Ad-Hoc Group (ITAAAG) in order to align with the "essential requirements" according to Directive 91/263/EEC;

- contains corrections to reported shortcomings in the Tree and Tabular Combined Notation (TTCN) at Layers 2 and 3;

- contains TTCN in ISO International Standard (IS) form in place of the Draft ISO International Standard (DIS) form;

- deselects tests declared by the special group of ITAAAG as being not essential according to Directive 91/263/EEC;

- contains a complete replacement of the TBR-RT (tables of annex A). The ETSI BTC2-TE5 joint meeting to discuss the results of the UAP decided to give preference to a complete replacement of the TBR-RT instead of an amendment of at least each second table which could lead to confusion to the user of the document.

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NOTE:	The references to the changed pages in the standard refer to an old presentation. See history box at the end of the standard itself.
	The new presentation format, applied from 1 December 1995, may have different page numbering. The clause numbering has not changed.

Page 4
TBR 4: November 1995/A1: December 1997

Amendments

Page 50, subclause 10.5.1

Add the word "Requirement:" in front of the last paragraph.

Add the following text to the end of the subclause:

Test: This requirement is implicitly tested by other TEI management tests.

Page 52, subclause 10.5.4.2

Amend the list of test cases as indicated:

Test: The test shall be conducted according to annex C, TTCN test cases TC14021, TC14022 TC24007 and TC27031 and test preamble PR31401.

Page 52, subclause 10.5.5.2

Amend the list of test cases as indicated:

Test: The test shall be conducted according to annex C, TTCN test case TC14019TC24007 and TC27031.

Page 53, subclause 10.5.5.3

Delete entire subclause.

Page 55, subclause 10.6.1.1

Amend text as indicated below:

Reference: ETS 300 125, Part 2, subclause 5.5.1.1

Requirement: These procedures shall be used to establish multiple frame operation between the network and a designated user entity.

The data link layer entity shall initiate establishment of multiple frame operation on receipt of the DL-ESTABLISH-REQUEST primitive from Layer 3. All frames other than unnumbered frame formats received during the establishment procedures shall be ignored.

Test: The test shall be conducted according to annex C, TTCN test case TC25013 and test preamble PR37004.

Page 56, subclauses 10.6.3 and 10.6.3.1

Delete entire subclauses.

Page 58, subclause 10.7.4

Delete test case TC28407 from the list of test cases.

Page 60, subclause 10.7.5.3

Delete test case TC27416 from the list of test cases.

Page 60, subclause 10.7.5.4

Delete test case TC27405 from the first list of test cases and replace delete TC27407 by TC27411 in from the second list of test cases.

Page 61, subclause 10.7.5.5

Add the following text to the end of the subclause:

<u>**Test:**</u>

> <u>NOTE:</u>   <u>It is not possible to replicate the conditions required to bring the IUT into the state required to perform the test, and therefore no tests is specified.</u>

Page 61, subclause 10.8

Delete test case TC28408 from the list of test cases.

Page 63, subclause 10.9.4

Delete test cases TC24007 and TC28019 from the list of test cases.

Page 124, subclause 11.4.2.2.2

Delete entire subclause.

Page 127, subclause 11.4.3.4.2

Delete test case TC11001 from the list of test cases.

Page 128, subclause 11.4.6.1

Delete entire subclause.

Page 130, subclause 11.4.6.3

Add test cases TC11908 and TC11909 to the list of test cases.

Page 130 subclause 11.4.6.5.1

Amend text as shown below:

Requirement: ~~When a message other than SETUP, DISCONNECT, RELEASE or RELEASE COMPLETE is received which has one or more mandatory information elements missing, no action shall be taken on the message and no state change shall occur. A STATUS message shall then be returned with Cause #96 "mandatory information element is missing".~~

When a SETUP or RELEASE message is received which has one or more mandatory information elements missing, a RELEASE COMPLETE message shall be returned.

~~Other actions taken on receipt of a RELEASE message with the Cause information element missing shall be the same as if a RELEASE message with Cause # 31 "normal, unspecified" had been received.~~

~~When a RELEASE message is received as the first clearing message and with a Cause information element missing, the actions taken shall be the same as if a RELEASE message with Cause #31 "normal, unspecified" was received (see subclause 11.4.3).~~

~~When a DISCONNECT message is received with the Cause information element missing, the actions taken shall be the same as if a DISCONNECT message with Cause #31 "normal, unspecified" was received (see subclause 11.4.3).~~

~~When a RELEASE COMPLETE message is received with a Cause information element missing, it shall be assumed that a RELEASE COMPLETE message was received with Cause #31 "normal, unspecified".~~

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Test: This requirement shall be tested according to the procedures of annex D, test cases TC10015, ~~TC10115, TC10222, TC11028 and TC11029.~~

> ~~NOTE:~~ ~~No test for the action on receipt of a DISCONNECT message with the Cause information element missing is specified in this version of the TBR because it was not possible to develop and verify a test due to shortage of time and resources. ETSI intends to develop and verify an appropriate test for inclusion in a later version.~~

Page 131, subclause 11.4.6.5.2

Delete entire subclause.

Page 131, subclause 11.4.6.6.1

Amend text as shown below:

Requirement: When a message is received which has one or more unrecognized information elements, the TE shall check whether any are encoded to indicate "comprehension required" (refer to table 11.27 for information element identifiers reserved with this meaning). If any unrecognized information element is encoded to indicate "comprehension required", then the procedures in subclause 11.4.6.5.1 are followed; i.e. as if a "missing mandatory information element" error condition had occurred. If all unrecognized information elements are not encoded to indicate "comprehension required", then the TE shall proceed as follows.

Action shall be taken on the message and those information elements which are recognized and have valid content. When the received message is other than DISCONNECT, RELEASE or RELEASE COMPLETE, a STATUS message may be returned containing one Cause information element. The STATUS message shall indicate the Call state of the receiver after taking action on the message. The Cause information element shall contain Cause #99 "information element non-existent or not implemented", and the diagnostic field, if present, shall contain the information element identifier for each information element which was unrecognized.

Subsequent actions are determined by the sender of the unrecognized information elements. If a clearing message contains one or more unrecognized information elements, the error is reported to the local TE in the following manner:

a) when a DISCONNECT message is received which has one or more unrecognized information elements, a RELEASE message shall be returned;

b) when a RELEASE message is received which has one or more unrecognized information elements, a RELEASE COMPLETE shall be returned;

c) when a RELEASE COMPLETE message is received which has one or more unrecognized information elements, no action shall be taken on the unrecognized information.

Test: This requirement shall be tested according to the procedures of annex D, test cases TC10027, TC10028, TC10718, TC11118 and TC11920.

Page 134, subclause 11.5

Amend text as indicated below:

Definition Requirement: The duration of timer T305 shall be is in the range 15 s to 45 s.

NOTE 1:   A value of 30 s is recommended.

The duration of timer T308 shall be is in the range 3 s to 15 s.

NOTE 2:   A value of 4 s is recommended.

Test: This requirement shall be tested according to the procedures of annex D, test cases TC21001 and TC21006.

Page 134 to 135, clause A.2.

Replace entire subclause A.2. by the following:

A.2   Layer 1 and overvoltage requirements TBR-RT

Table A.1: Layer 1 and overvoltage conditions table

Refer-ence.	Condition	Status	Support (Y/N)	Comment
1	Is TE mains powered?	o		Affects requirements in clause 8