

Amendment

A1 December 1997

TBR 4

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This amendment A1 modifies the Technical Basis for Regulation TBR 4 (1995)

Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect 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.

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.

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Amendments

Page 50, subclause 10.5.1

Add the word "<u>Requirement</u>:" 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 $\frac{TC14019TC24007}{TC27031}$.

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. <u>All frames other than unnumbered frame formats</u> received during the establishment procedures shall be ignored.

Test: The test shall be conducted according to annex C, <u>TTCN test case TC25013 and</u> 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:

Test:

<u>NOTE:</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.

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.

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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<u>Requirement</u>: The duration of timer T305 <u>shall beis</u> in the range 15 s to 45 s.

NOTE 1: A value of 30 s is recommended.

The duration of timer T308 shall beis 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

<u>Refer-</u> ence.	<u>Condition</u>	<u>Status</u>	<u>Support</u> (Y/N)	<u>Comment</u>
<u>1</u>	Is TE mains powered?	<u>0</u>		Affects requirements in clause 8

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<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)	
<u>1</u>	<u>8.1</u>	Impulse transfer from mains, common mode	<u>c1</u>		
2	<u>8.2</u>	Impulse transfer from mains, transverse mode	<u>c1</u>		
<u>3</u>	<u>8.3</u>	Conversion of common mode to transverse mode	<u>m</u>		
<u>c1 = m if</u>	c1 = m if A1.1 else n/a				

Table A.2: Overvoltage requirements table

Table A.3: Layer 1 physical characteristics requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>9.1.1</u>	Hardwiring	<u>m</u>	
2	<u>9.1.2</u>	Alternative connection method	<u>0</u>	

Table A.4: Layer 1 output port electrical requirements table

<u>No.</u>	Reference	TBR Requirement	<u>Status</u>	Support
1	0.2.1	Wayoform shape	m	<u>(1/N)</u>
<u> </u>	<u>9.2.1</u>		<u> </u>	
<u>2</u>	<u>9.2.2</u>	Impedance towards ground	<u>m</u>	
<u>3</u>	<u>9.2.3</u>	Clock accuracy	<u>m</u>	
<u>4</u>	<u>9.2.4a</u>	Output jitter, input timing derived from the same	<u>o1</u>	
		primary rate access		
<u>5</u>	<u>9.2.4b</u>	Output jitter, input timing derived from a different	<u>o1</u>	
		primary rate access		
<u>6</u>	<u>9.2.4c</u>	Output jitter, input timing derived from a non-ISDN	<u>o1</u>	
		2 048 kbit/s access		
7	9.2.4d	Output jitter, input timing derived from internal	<u>o1</u>	
		source.		
8	<u>9.2.4e</u>	Output jitter, input timing derived from dedicated	<u>o1</u>	
		external reference	_	
<u>01. One c</u>	or more options s	shall be chosen.		

Table A.5: Layer 1 input port electrical requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>9.3.1</u>	Return loss	<u>m</u>	
<u>2</u>	<u>9.3.2</u>	Immunity to attenuation and reflections	<u>m</u>	
<u>3</u>	<u>9.3.3</u>	Jitter tolerance	<u>m</u>	
4	9.3.4	Tolerable longitudinal voltage	<u>m</u>	
<u>5</u>	<u>9.3.5</u>	Impedance towards ground	<u>m</u>	

Table A.6: Layer 1 frame structure requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	9.4.4	Allocation of bits number 1 to 8 of the frame	<u>m</u>	
2	<u>9.4.8</u>	Use of bit 1 in 2 048 kbit/s CRC-4 multiframe	<u>m</u>	
<u>3</u>	<u>9.4.9</u>	<u>D-channel</u>	<u>m</u>	

<u>No</u>	<u>Ref</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>9.5.4.2.1</u>	Anomalies and defect detection	<u>m</u>	
2	<u>9.5.4.2.2</u>	Detection of defect indication signals	<u>m</u>	
<u>3</u>	<u>9.5.4.2.3</u>	Consequent actions	<u>m</u>	
<u>4</u>	<u>9.5.5.1</u>	Loss of frame alignment	<u>m</u>	
<u>5</u>	<u>9.5.5.2</u>	Strategy for frame alignment recovery	<u>m</u>	
<u>6</u>	<u>9.5.5.3</u>	CRC multiframe alignment using information in bit 1 of the basic frame	m	
<u>7</u>	<u>9.5.5.4</u>	CRC bit monitoring	<u>m</u>	
8	9.5.5.5	Monitoring for false frame alignment	<u>m</u>	

Table A.7: Layer 1 operational functions requirements table

Page 137 to 139, clause A.3.

Replace entire subclause A.3. by the following:

A.3 Layer 2 TBR-RT

Table A.8 Layer 2 point-to-point configuration requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
1	<u>10.3</u>	Does the TE support a configuration using only a single point-to-point data link?	<u>0</u>	

Table A.9 Layer 2 unacknowledged operation requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>10.4.1</u>	Transmission of unacknowledged information	<u>c1</u>	
<u>2</u>	<u>10.4.2</u>	Receipt of unacknowledged information	<u>c1</u>	
<u>c1 = n/a i</u>	<u>f A.8.1 else m</u>			

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	r		r		
<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u>	
				<u>(Y/N)</u>	
<u>1</u>	<u>10.5.2</u>	TEI assignment procedure, automatic TEIs	<u>c1</u>		
2	<u>10.5.2</u>	TEI assignment procedure, non-automatic TEIs	<u>c1</u>		
<u>3</u>	<u>10.5.2.1</u>	Expiry of timer T202	<u>c2</u>		
4	<u>10.5.3</u>	Operation of the TEI check procedure	<u>c3</u>		
<u>5</u>	<u>10.5.4.1</u>	Action taken by the data link layer entity receiving	<u>c2</u>		
		the MDL-REMOVE-REQUEST primitive			
<u>6</u>	<u>10.5.4.2</u>	Conditions for TEI removal, receipt of an identity	<u>c2</u>		
		remove message			
<u>7</u>	<u>10.5.4.2</u>	Conditions for TEI removal, receipt of MDL-	<u>c4</u>		
		ERROR INDICATION indicating possible multiple			
		TEI assignment			
8	<u>10.5.5.2</u>	Operation of the TEI identity verify procedure	<u>c4</u>		
9	<u>10.5.1</u>	General TEI management procedures	<u>m</u>		
<u>c1 = n/a i</u>	f <u>A.8.1 else o1</u>				
<u>c2 = m if</u>	<u>A.10.1 else n/a</u>				
<u>c3 = n/a if A.8.1 else m</u>					
<u>c4 = o1 if</u>	A.10.1 else n/a				
<u>o1 = One</u>	or more options	shall be chosen			

Table A.10 Layer 2 TEI management requirements table

Table A.11: Layer 2 establishment and release procedures requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>10.6.1.1</u>	General	<u>m</u>	
2	<u>10.6.1.2</u>	Establishment procedures	<u>m</u>	
<u>3</u>	<u>10.6.1.3</u>	Procedure on expiry of timer T200	<u>m</u>	
4	10.6.2	Termination of multiple frame operation	m	

Table A.12: Layer 2 multiple frame operation requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	Support
				<u>(†/N)</u>
<u>1</u>	<u>10.7.1</u>	Transmitting I-frames	<u>m</u>	
<u>2</u>	<u>10.7.2</u>	Receiving I-frames	<u>m</u>	
<u>3</u>	<u>10.7.2.1</u>	P bit set to 1	<u>m</u>	
4	<u>10.7.2.2</u>	P bit set to 0	<u>m</u>	
<u>5</u>	<u>10.7.3</u>	Receiving acknowledgements	<u>m</u>	
<u>6</u>	<u>10.7.4</u>	Receiving REJ frames	<u>m</u>	
<u>7</u>	<u>10.7.5.1</u>	Receiving a valid RNR command or response	<u>m</u>	
<u>8</u>	<u>10.7.5.2</u>	Expiry of timer T200 during "peer receiver busy"	<u>m</u>	
<u>9</u>	<u>10.7.5.3</u>	Receiving a valid RNR command or response	<u>m</u>	
		during "peer receiver busy"		
<u>10</u>	10.7.5.4	Receiving a valid RR or REJ command during m		
		"peer receiver busy"		
<u>11</u>	10.7.5.5	Appropriate supervisory response frame	<u>m</u>	
12	10.7.6	Waiting acknowledgement	<u>m</u>	
<u>13</u>	10.8	Re-establishment of multiple frame operation	m	

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>10.9.1</u>	N(S) sequence error	<u>m</u>	
2	<u>10.9.2</u>	Invalid frame condition	<u>m</u>	
<u>3</u>	<u>10.9.3</u>	Frame rejection condition	<u>m</u>	
4	<u>10.9.4</u>	Multiple-assignment of TEI value	<u>c1</u>	
c1 = m if	A10.1 else n/a			

Table A.13: Layer 2 exception condition requirements table

Table A.14: Layer 2 system parameters requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>10.10.7</u>	Layer 2 response time, TE not operating in accordance with 10.3 (200 ms)	<u>c1</u>	
2	<u>10.10.7</u>	Layer 2 response time, TE operating in accordance with 10.3 (500 ms)	<u>c2</u>	
$\frac{c1 = n/a \text{ if } A.8.1 \text{ else m}}{c2 = m \text{ if } A.8.1 \text{ else n/a}}$				

Page 139 to 140, clause A.4.

Replace entire subclause A.4. by the following:

A.4 Layer 3 TBR-RT

Table A.15: Layer 3 Call establishment at the originating interface requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	Support			
1	11.4.1	Call establishment at the originating interface	m	<u>(1/N)</u>			
2	11.4.1.1	Call request, SETUP message with Sending Complete information element	<u>01</u>				
<u>3</u>	<u>11.4.1.1</u>	Call request, SETUP message with all called party address information, but without Sending Complete information element	<u>01</u>				
<u>4</u>	<u>11.4.1.1</u>	Call request, SETUP message without all called party address information	<u>o1</u>				
<u>5</u>	<u>11.4.1.2</u>	Overlap sending, enter Overlap sending state	<u>c1</u>				
<u>6</u>	<u>11.4.1.2</u>	Overlap sending, send INFORMATION messages	<u>c2</u>				
<u>7</u>	<u>11.4.1.3.1</u>	Call proceeding, en-bloc sending	<u>c3m</u>				
<u>8</u>	<u>11.4.1.3.2</u>	Call proceeding, overlap sending	<u>c1</u>				
<u>9</u>	<u>11.4.1.4</u>	Call confirmation indication	m				
<u>10</u>	<u>11.4.1.5</u>	Call connected	<u>m</u>				
<u>c1 = m if A.15.3 or A.15.4 else n/a</u>							
c2 = m if A.15.4							
<u>c3 = m if</u>	c3 = m if A15.2 or A15.3 else n/a						
<u>o1 = One</u>	o1 = One or more options shall be chosen.						

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<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)
<u>1</u>	<u>11.4.2</u>	Call establishment at the destination interface	<u>m</u>	
2	<u>11.4.2.1</u>	Incoming call, SETUP message delivered by point-to-point data link	<u>m</u>	
<u>3</u>	<u>11.4.2.2.1</u>	Compatibility checking on Bearer capability information element, SETUP message delivered by point-to-point data link	<u>0</u>	
<u>4</u>	<u>11.4.2.3.1</u>	B-channel selection-destination, SETUP message delivered by point-to-point data link	<u>m</u>	
5	11.4.2.4	Overlap receiving	<u>0</u>	
<u>6</u>	<u>11.4.2.5.1</u>	Response to en-bloc SETUP or completion of overlap receiving	<u>m</u>	
7	11.4.2.6	Call accept	m	
8	11.4.2.7	Active indication	m	

Table A.17: Layer 3 Call clearing requirements table

<u>No.</u>	<u>Reference</u>	TBR Requirement	<u>Status</u>	<u>Support</u> (Y/N)		
<u>1</u>	<u>11.4.3.2</u>	Exception conditions	<u>m</u>			
2	<u>11.4.3.3</u>	Clearing initiated by the user	m			
<u>3</u>	<u>11.4.3.4.1</u>	Clearing when tones/announcements provided,	<u>o1</u>			
		Disconnect Indication state entered				
<u>4</u>	<u>11.4.3.4.1</u>	Clearing when tones/announcements provided,	<u>o1</u>			
Release Request state entered						
<u>5</u>	<u>11.4.3.4.2</u>	Clearing when tones/announcements not provided	<u>m</u>			
<u>6</u>	<u>11.4.3.4.3</u>	Completion of clearing	<u>m</u>			
7	11.4.3.5	Clear collision	<u>m</u>			
<u>01 = One</u>	or more options	shall be chosen.				

Table A.18: Layer 3 error conditions requirements table

<u>No.</u>	Reference	TBR Requirement	<u>Status</u>	Support (Y/N)
1	11.4.6.2	Call reference procedural errors	<u>m</u>	<u>(1/11/</u>
2	11.4.6.3	Message type or message sequence errors	m	
3	11.4.6.4	Duplicated information elements	<u>m</u>	
4	11.4.6.5.1	Mandatory information element missing	<u>m</u>	
<u>5</u>	<u>11.4.6.6.1</u>	Unrecognized information element	<u>m</u>	
<u>6</u>	<u>11.4.6.6.2</u>	Non-mandatory information element content error	<u>m</u>	
7	<u>11.4.6.7</u>	Status enquiry procedure	<u>m</u>	
<u>8</u>	<u>11.4.6.8</u>	Receiving a STATUS message	<u>m</u>	
9	<u>11.4.7</u>	User notification procedure	<u>m</u>	
<u>10</u>	<u>11.4.8</u>	Restart procedure	m	
<u>11</u>	11.5	TE Timer T305	<u>m</u>	
12	<u>11.5</u>	TE Timer T308	m	

Page 409 and 411, annex F, subclause F.3.2, table F.2 (continued)

Amend the following rows of table F.2 as indicated:

Clause of ETS 300 125	Clause of TBR 3	Status	Justification
5.3.5.3 Expiry of timer T202	10.5.5.3	<u>X</u> 4f	Requirement considered as non-essential by the special ITAAAG group.See above.
5.5.5.1 Identical transmitted and received commands	10.6.3.1	<u>X</u> 4ŧ	Requirement considered as non-essential by the special ITAAAG group. The procedure for collision of SABME frames is essential. If it is not implemented the network will not receive a response to the SABME which it transmitted. This can result in a situation where the TEI value is lost.The procedure for collision of DISC is not included, as there is no requirement for the TE to be capable of sending a DISC.

Table F.2 (continued): Changes with respect to ETS 300 125

Page 144, subclause B.2.2.

Amend the text of the paragraph results as indicated:

Results:

a. 10 Hz \leq f \leq 500 kHz: V_{TEST} \leq 20 mV rms b 500 kHz \leq f \leq 1 MHz: maximum value increasing at 6dB/octave from V_{TEST} = 20 mV rms

Page 155, subclause B.3.5.

Amend the text of the paragraph results as indicated:

Results:

a. 10 Hz \leq f \leq 500 kHz: V_{TEST} \leq 20 mV rms

b 500 <u>k</u>Hz \leq f \leq 1 MHz: maximum value increasing at 6dB/octave from V_{TEST} = 20 mV rms

Page 420, subclause F.4.7.

Amend the text of the first paragraph as indicated:

All the layer 3 user side timers <u>except T305 and T308</u> are considered not to be essential. The reasons in each case are included in the table below.

Amend the following rows of table F.3 as indicated:

T305	Timer is essentialETS 300 102-1 has the timer set to 30 s. The network side timer T305 or
	T306 will also expire after 30 s and cause a RELEASE to be sent, achieving the same effect.
T308	Timer is essentialETS 300 102-1 first edition has the timer set to 4 s. The second edition sets
	the timer to (N200 + 1) × T200. An error-free network will never permit the timer to expire,
	because the network will respond to a RELEASE with a RELEASE COMPLETE.

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Page 430 - 432, annex F, subclause F.4.8, table F.4 (continued)

Amend the following rows of table F.4 as indicated:

Table F.4 (continued): Changes with respect to ETS 300 102-1

Clause of ETS 300 102-1	Clause of TBR	Status	Justification
5.8.1 Protocol discrimination error	11.4.6.1	<u>X</u> 4ŧ	Requirement considered as non-essential by the special ITAAAG group.It was intended that the requirement should be modified (and a TBR-RT question added) to address the possibility that a TE may be simultaneously capable of supporting Euro-ISDN and a national ISDN protocol with a different protocol discriminator. Time has not permitted the inclusion of suitable text.
5.8.6.1 Mandatory information element missing	11.4.6.5.1	4f	2nd requirement is essential. 1st, 3rd, 4th, 5th, 6th requirements considered as non-essential by the special ITAAAG group.Necessary to future proof the TE against additional features on the network.
5.8.6.2 Mandatory information element content error	11.4.6.5.2	<u>X</u> 4f	Requirement considered as non-essential by the special ITAAAG group.Necessary to future proof the TE against additional features on the network.
5.8.7.1 Unrecognized information element	11.4.6.6.1	4f	2nd requirement is essential. Requirements a) and c) considered as non-essential by the special ITAAAG group.Necessary to future proof the TE against additional features on the network. Text takes into account the second edition.
9.2 Timers in the User side	<u>11.5</u>	<u>4f</u> X	Requirement for T305 and T308 was included by the special ITAAAG group PE-resolution meeting for TBR 3 and TBR 4. All other Layer 3 timers except T317 relating to requirements included in the TBR would require a network misoperation in order to occur. See subclause F.4.7 for more detail.

ATS in electronic form

TTCN.GR and TTCN.MP representations of this Abstract Test Suite (ATS) are contained in an archive file (004_B11.LZH) which accompanies this TBR. After decompression, the archive file will yield the Graphical representation for each layer as follows:

- XBU004L2.PDF (layer 2);
- XBU004L3.PDF (layer 3);

and the Machine Processable representation for each layer as follows:

- XBU004L2.MP (layer 2);
- XBU004L3.MP (layer 3).
 - NOTE: According to ISO/IEC 9646-3 [8], in case of a conflict in interpretation of the operational semantics of TTCN.GR and TTCN.MP, the operational semantics of the TTCN.GR representation takes precedence.

Revisions to the test suites

Page 167, annex C.

Delete annex and replace with text contained in files XBU004L2.MP/PDF.

Page 250, annex D.

Delete annex and replace with text contained in files XBU004L3.MP/PDF.

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History

Document history							
November 1995	First Edition						
May 1996	Unified Approval Procedure	UAP 47:	1996-05-20 to 1996-10-11				
June 1997	Vote	V 9735:	1997-06-17 to 1997-08-29				
December 1997	Amendment 1 to First Edition						