II

(Acts whose publication is not obligatory)

COMMISSION

COMMISSION DECISION

of 18 November 1994

on a common technical regulation for the pan-European integrated services digital network (ISDN) primary rate access

(94/796/EC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 91/263/EEC of 29 April 1991 on the approximation of the laws of the Member States concerning telecommunications terminal equipment, including the mutual recognition of their conformity [1], as amended by Directive 93/68/EEC [2], and in particular Articles 6(2) and 16(4) thereof,

Whereas the Commission has adopted under Council Directive 86/361/EEC [3] the measure identifying the type of terminal equipment for which a common technical regulation is required, together with the associated scope statement;

Whereas this Decision constitutes a bridging measure which is to be reviewed within a period of two years following its adoption due account being taken of the progress made by the relevant standardization body engaged in the preparation of a new harmonized standard implementing the essential requirements applicable;

Whereas during this period it may be necessary to amend this Decision with respect to the harmonized standards identified in this Decision;

Whereas in some Member States, the early national implementations of ISDN may have resulted in justified national variations;

Whereas in order to ensure continuity of access to markets for manufacturers now serving one or more national markets, it is necessary to allow for transitional arrangements regarding the use of national requirements during the period mentioned in this Decision;

Whereas the maximum period mentioned in this Decision should be determined by the finalization by the relevant standardization body of the mandated harmonized standards implementing the essential requirements applicable;

Whereas the common technical regulation adopted in this Decision is in accordance with the opinion of the Approvals Committee for Terminal Equipment (ACTE),

HAS ADOPTED THIS DECISION:

Article 1

1. This Decision shall apply to terminal equipment intended to be connected to a public telecommunications network and falling within the scope of the harmonized standard identified in Article 2 (1).

2. This Decision establishes a common technical regulation covering the technical characteristics, electrical and mechanical interface requirements, and access control protocol to be provided by terminal equipment which is capable of and intended by the manufacturer, or his representative, for connection to a T, or coincident S and T, reference point for a primary rate access at an interface to a public telecommunications network presented as a pan-European ISDN (EURO-ISDN) primary rate access point.

(1) OJ No L 128, 23. 5. 1991, p. 1.
(2) OJ No L 220, 31. 8. 1993, p. 1.
(3) OJ No L 217, 5. 8. 1986, p. 21.

Article 2

1. The common technical regulation shall include the harmonized standard prepared for the corresponding measure adopted under Directive 86/361/EEC, but shall limit itself to the essential requirements referred to in Article 4 (c) to (f) of Directive 91/263/EEC. The reference to the standard is set out in Annex I, of which the applicable part is shown in Annex II.

2. Terminal equipment covered by this Decision shall comply with the common technical regulation referred to in paragraph 1, shall meet the essential requirements referred to in points (a) and (b) of Article 4 of Directive 91/263/EEC, and shall meet the requirements of any other applicable Directives, in particular Council Directives 73/23/EEC [1] and 89/336/EEC [2].

Article 3

Notified bodies designated for carrying out the procedures referred to in Article 9 of Directive 91/263/EEC shall, as regards terminal equipment covered by Article 1 (1) of this Decision, use or ensure the use of the harmonized standard referred to in Annex I except where a justified national variation is applicable during the period referred to in Article 4.

Article 4

The Commission shall examine the experience gained in the application of this Decision and the progress made by the relevant standardization body for the purpose of ensuring the early availability of the relevant harmonized standard which has been adopted by that recognized standardization body. To that end it shall adopt any necessary amendments to this Decision in accordance with the procedures laid down in Directive 91/263/EEC, and it shall adopt a final measure within a maximum period of two years after this Decision has taken effect.

Article 5

This Decision is addressed to the Member States.

Done at Brussels, 18 November 1994.

For the Commission
Martin BANGEMANN
Member of the Commission

[1] OJ No L 77, 26. 3. 1973, p. 29.
[2] OJ No L 139, 23. 5. 1989, p. 19.

ANNEX I

Reference to the harmonized standard of which parts are applicable

The harmonized standard referred to in Article 2 of the Decision is:

NET 5 (ISDN primary rate access)

OJ No C 53, 24. 2. 1993, p. 6.

Additional information

The harmonized standard referred to, NET 5, was adopted under Directive 86/361/EEC.

The full text of NET 5 can be obtained from the following address:

European telecommunications standards institute,
F-06921 Sophia Antipolis Cedex.

ANNEX II

Cross reference list indicating applicable part of the harmonized standard

Layer 1, NET 5, cross reference list

Reference to NET 5 (ETS 300 011)	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5 (ETS 300 011)
C.2.1	9.2.3	Not TTCN	To measure the bit rate when the IUT (Implementation Under Test) is not synchronized.
C.2.3.1	9.2.1	Not TTCN	To check the conformance of the shape of all mark pulses, irrespective of the polarity, transmitted by IUT.
C.2.3.2	9.2.1	Not TTCN	To check the absence of any voltage higher than 10 % of the nominal peak value of a pulse during the transmission of a space (no pulse).
C.2.3.3	9.2.1	Not TTCN	To check the balance between the amplitude of positive and negative pulses (measured at the centre of the pulse interval).
C.2.3.4	9.2.1	Not TTCN	To check the balance between the time duration of pulses of different polarity (measured at the half of the nominal pulse amplitude).
C.2.4.1	9.3.1	Not TTCN	To measure the return loss of the receiving section of IUT.
C.2.4.2	9.3.2	Not TTCN	To check the input port immunity against an interfering signal combined with the input signal with a cable attenuation of maximum 6 dB.
C.2.5.3.1	9.4.8	Not TTCN	To check the correct generation of frame alignment word, multiframe alignment word, CRC bits C_1 to C_4.
C.2.8.1	9.3.3 9.4.4	Not TTCN	To check the ability of IUT to tolerate on the 2 048 kbit/s incoming signal a sinusoidal jitter/wander in accordance with subclause 9.3.3.
C.2.8.2.1	9.2.4	Not TTCN	To measure the jitter generated from IUT in the presence of input jitter when IUT is synchronized by the simulator.
C.2.9	9.3.4	Not TTCN	To check minimum tolerance to longitudinal voltage at input ports.
C.2.11.1	9.3.5	Not TTCN	To check IUT receiver input impedance towards ground.
C.2.11.2	9.2.2	Not TTCN	To check IUT transmitter output impedance towards ground.
C.3.1.1	9.2.5	Not TTCN	To check the coding, decoding and the binary organization of Normal Operational Frame.
C.3.2.2	9.5.4.2.1 9.5.4.2.2 9.5.4.2.3	Not TTCN	The tests defined in this subclause intend to check the different stable states at the IUT side and the possible transitions between them. These tests are performed by simulating the opposite side, monitoring the IUT at the interface and verifying appropriate state transition.
C.4.3	9.5.5.1 9.5.5.2	Not TTCN	To test that IUT correctly executes the frame alignment procedure.
C.4.4	9.4.8 9.5.5.3	Not TTCN	To test the IUT correctly executes the CRC multiframe alignment.
C.4.5	9.5.5.4 9.5.5.5	Not TTCN	To test the correct execution of CRC calculation, comparison with the received bits C_1 to C_4 and generation of the CRC error report with bit E.

(1) Draft prTBR 4, April 1994.

Layer 2, NET 5, cross reference list

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 313	Reference to draft prTBR 4 (1)	Means of fest specification	Test purpose as defined in NET 5
A.2.2.1	A.2.2.1.1	TC24004	10.6.1.2	TTCN	Tests the normal initialization of multiple-frame operation.
A.2.2.1	A.2.2.1.3	TC25002	10.6.1.2	TTCN	To test that terminal takes appropriate action if the data link connection cannot be initialized, e.g. in case of the unavailability of resources at the network side.
A.2.2.1	A.2.2.1.4	TC25005	10.6.1.3	TTCN	Tests the terminals response to the inability of the network to respond to requests to initialize the data link and to ensure that the TE under test tries only (N200 + 1) times to initialize the data link.
A.2.2.1	A.2.2.1.5	TC27022	10.8	TTCN	To ensure correct data link reset by the terminal.
A.2.2.2	A.2.2.2.2	TC27003	10.7.1 10.7.2 10.7.2.2 10.7.3	TTCN	Tests the operation layer 2 sequence numbering. Since there are 128 sequence numbers the test program should oycle through this number of information frame transfers.
A.2.2.2	A.2.2.2.3	TC27004	10.7.3	TTCN	To test that the terminal correctly accepts an 'I' command frame as valid response to an 'I' command frame which it has transmitted.
A.2.2.2	A.2.2.2.4	TC28012	10.7.2	TTCN	Ensures that whilst in the timer recovery state the terminal is able to recelve I-frames.
A.2.2.2.5	–	TC27076	10.7.1	TTCN	Ensures that the maximum number of unacknowledged I-frames equals k (=7).
A.2.2.3	A.2.2.3.1	TC27012	10.6.2	TTCN	Tests the normal data link disconnection sequences.
A.2.2.4	A.2.2.4.1	TC27058	10.9.2	TTCN	Tests the layer 2 FCS check mechanism.
A.2.2.4	A.2.2.4.2	TC27015	10.7.6	TTCN	Tests the layer 2 recovery mechanism of the TE in the event of I-frames loss.
A.2.2.4	A.2.2.4.3	TC27019	10.7.6	TTCN	Test layer 2 recovery mechanism in the event of RR-frame loss.
A.2.2.4	A.2.2.4.4 (b)	TC27027	10.9.1	TTCN	Test layer 2 recovery mechanism in the event of RR-frame loss.
A.2.2.4.5	–	TC27075	10.7.3	TTCN	Ensures that simultaneous acknowledgement of more than one frame is allowed.
A.2.2.5	A.2.2.5.1	TC27404	10.7.5	TTCN	To ensure correct handling of peer busy condition. (Frame numbers 1, 4 to 9).
A.2.2.5	A.2.2.5.1	TC28406	10.7.1 10.7.2	TTCN	To ensure correct handling of peer busy conditions. (Frame numbers 1 to 3).

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 313	Reference to draft prTBR 4 (1)	Means of fest specification	Test purpose as defined in NET 5
A.2.2.7	A.2.2.7.1	TC14002	10.5.3.2	TTCN	Tests the allocation of TEIs using management procedures and tests that the terminal shall perform TEI check on a check request message for a specific TEI value.
A.2.2.7	A.2.2.7.2	TC13008	10.5.2.1	TTCN	To test the terminal's response to a TEI denied frame.
A.2.2.7	A.2.2.7.3	TC14001	10.4.1 10.4.2 10.5.3.2	TTCN	Checks the terminal shall perform TEI check on request from ET.
A.2.2.7	A.2.2.7.4	TC13010	10.6.2.1	TTCN	Checks whether the IUT after N202 unsuccesful attempts to acquire a TEI value makes no further attempts.
A.2.2.8	A.2.2.8.1.1	TC24020	10.9.2	TTCN	Ensures that the terminal does not accept frames containing an invalid address and that, on receipt of such a frame, it takes no action.
A.2.2.8	A.2.2.8.4.1	TC27028	10.9.1	TTCN	Ensures that the terminal shall transmit a REJ-frame in response to an out of sequence I-frame.
A.2.2.8.4.2	–	TC27074	10.7.3	TTCN	Ensures that on receipt of a REJ-frame the terminal transmits the approplate I-frames.
A.2.2.8	A.2.2.8.4.3	TC28005	10.7.4 10.7.6	TTCN	Ensures that on receipt of a REJ-frame during the timer recovery condition the terminal retransmits the appropriate I-frame.
A.2.2.8	A.2.2.8.5.1 (a)	TC27040	10.9.3	TTCN	Ensures that the terminal resets the data link on receipt of a frame with an invalid N(R) value. (N(P) is valid in the range $V(A) \leq N(R) \leq V(S)$).
A.2.2.8	A.2.2.8.6.1 (b)	TC27043	10.9.3	TTCN	Ensures that the terminal resets the data fink on receipt of a frame with an invalid N(R) value, (N(R) is valid in the range $V(A) \leq N(R) \leq V(S)$).
A.2.2.8	A.2.2.8.5.1 (c)	TC27046	10.9.3	TTCN	Ensures that the terminal resets the data link on receipt of a frame with an invalid N(R) value. (N(R) is valid in the range $V(A) \leq N(R) \leq V(S)$.
A.2.2.8	A.2.2.8.7	TC11013	10.4.2	TTCN	Ensures that the terminal shall not accept frames, except those required for TEI assignment, whilst in the TEI unassigned state.
A.2.2.9	A.2.2.9.1	TC27417	10.7.5 10.7.6	TTCN	Ensures T200 is within the allowed tolerance of its value of 1 second (± 5 %).
A.2.2.9	A.2.2.9.2	TC27411	10.7.5 10.7.6	TTCN	Ensures the correct value of N200, the maximum number of (retransmlaslons of a frame (default value 3)).
A.2.2.9.3	–	TC27061	10.7.3	TTCN	Ensures that the terminal restarts timer T200 upon receipt of an acknowledgement while there are still outstanding I-frames unacknowledged.

(1) Draft prTBR 4, April 1994.

Layer 3, NET 5, cross reference list

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.1	A.1.1.1.1	TC10005	11.4.2.1 11.4.2.5.1	TTCN	Ensures that on receipt of a valid SETUP message without the Sending complete information element the terminal responds with either a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message and moves to the relevant state.
A.3.1	A.1.1.1.2	TC10006	11.4.2.1 11.4.2.5.1	TTCN	Ensures that on receipt of a valid SETUP message with the Sending complete information element the terminal responds with either a CALL PROCEEDING, ALERTING or CONNECT message and moves to the relevant state.
A.3.1	A.1.1.2.1 (No option A)	TC10008	11.4.2.2	TTCN	Ensures that on receipt of a valid SETUP message containing an incompatibly coded bearer capability information element the TE responds by sending a RELEASE COMPLETE message and remains in the Null state.
A.3.1	A.1.1.2.2 (No option A)	TC10009	11.4.2.2	TTCN	This test is only applicable to TE's with an HLC capability. It ensures that on receipt of a valid *set up* message containing a compatible BC but incompatible High Layer compatibility information element the TE (which performs high layer compatibility checks) responds by sending a RELEASE COMPLETE message and remains in the Null state.
A.3.1	A.1.2	TC10011	11.4.6.2	TTCN	Ensures that on receipt of a repeated valid SETUP message with the same call reference as the initial SETUP message, the terminal ignores the second SETUP message and remains in the same state.
A.3.1	A.1.3.3	TC10015	11.4.6.5.1	TTCN	Ensures that on receipt of a SETUP message without a mandatory information element (e.g. the Bearer capability information element), the terminal responds with a RELEASE COMPLETE message and remains in the Null state.
A.3.1	A.1.3.4	TC10027	11.4.6.6.1	TTCN	Ensures that on receipt of a SETUP message with an unrecognized (not yet defined) information element of the type 'comprehension required' (i. e. bits 5—8 of the information element identifier coded '0000') the terminal responds with a RELEASE COMPLETE message and remains in the Null state.
A.3.1	A.1.3.5	TC10028	11.4.6.6.1	TTCN	Ensures that on receipt of a SETUP message with an unrecognized (not yet defined) information element of the type other than 'comprehension required' (i. e. bits 5—8 of the information element identifier coded other than '0000') the terminal takes normal action on those information elements which are recognized and have valid content. Additionally the terminal may return a STATUS message.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.1	A.1.3.6	TC10029	11.4.6.6.2	TTCN	Ensures that on receipt of a SETUP message with a non-mandatory information element with invalid/unrecognized content the terminal takes normal action on those information elements which are recognized and have valid content. Additionally the terminal may return a STATUS message.
A.3.2	A.2.1	TC10002	11.4.6.2 11.4.6.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and that no change of state occurs.
A.3.2	A.2.2	TC10001	11.4.6.3	TTCN	Ensures the terminal ignores a RELEASE COMPLETE message and that no change of state occurs.
A.3.2	A.2.3.1	TC10010	11.4.6.2	TTCN	Ensures the terminal responds to an inopportune message with a RELEASE or a RELEASE COMPLETE message (see Preliminary Note 10).
A.3.2	A.2.4.2	TC10004	11.4.6.8	TTCN	Ensure that on receipt of a STATUS message indicating any call state except the Null state, the terminal responds with either a RELEASE or a RELEASE COMPLETE message.
A.3.4	A.4.1	TC12501	11.4.3.4.2	TTCN	Ensures the terminal responds to a DISCONNECT message with a RELEASE message and enters the Release Request state.
A.3.4	A.4.2	TC12505	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE message the terminal responds with RELEASE COMPLETE message and enters the Null state.
A.3.4	A.4.3	TC12504	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.4	A.4.4.1	TC12508	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.4	A.4.4.2	TC12521	11.4.6.3	TTCN	Ensures the terminal responds to a syntactically invalid message type with a STATUS message and that no change of state occurs.
A.3.4	A.4.5.1	TC12502	11.4.2.4	TTCN	Ensures that on receipt of an INFORMATION PDU without sufficient called number identification the IUT does not respond and remains in the same state.
A.3.4	A.4.5.2	TC12503	11.4.2.4 11.4.2.5.1	TTCN	Ensures that on receipt of an INFORMATION message containing sufficient called number information the terminal responds with either a CALL PROCEEDING, ALERTING or CONNECT message and moves to the relevant state.
A.3.4	A.4.6.1	TC12507	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.5	A.5.1	TC10901	11.4.3.4.2	TTCN	Ensures the terminal responds to a DISCONNECT message with a RELEASE message and enters the Release Request state.
A.3.5	A.5.2	TC10904	11.4.6.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and enters the Null state.
A.3.5	A.5.3	TC10903	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.5	A.5.4.1	TC10907	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.5	A.5.4.2	TC10920	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.5	A.5.6.1	TC10906	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.6	A.6.1	TC10701	11.4.3.4.2	TTCN	Ensures the terminal responds to a DISCONNECT message with a RELEASE message and enters the Release Request state.
A.3.6	A.6.2	TC10704	11.4.6.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and enters the Null state.
A.3.6	A.6.3	TC10703	11.4.2 11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.6	A.6.4.1	TC10707	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.6	A.6.4.2	TC10720	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.6	A.6.6.1	TC10706	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.7	A.7.1	TC10802	11.4.3.4.2	TTCN	Ensures the terminal responds to a DISCONNECT message with a RELEASE message and enters the Release Request state.
A.3.7	A.7.2	TC10805	11.4.2.8 11.4.6.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and enters the Null state.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.7	A.7.3	TC10804	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.7	A.7.4.1	TC10808	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.7	A.7.4.2	TC10821	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.7	A.7.6.1	TC10807	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.7	A.7.7	TC10801	11.4.2.7	TTCN	Ensures that the terminal will enter the Active state on receipt of a CONNECT ACKNOWLEDGE message.
A.3.8	A.8.2	TC11005	11.4.6.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and enters the Null state.
A.3.8	A.8.3	TC11004	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.8	A.8.4.1	TC11008	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.8	A.8.4.2.1	TC11021	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.8	A.8.6.1	TC11007	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.8	A.8.7	TC11003	11.4.7	TTCN	Ensures that on receipt of a NOTIFY message the terminal makes no response and remains in the same state.
A.3.8	A.8.8	TC21003	11.4.3.3	TTCN	Ensures the terminal transmits a DISCONNECT message and enters the Disconnect Request state on invocation of clearing.
A.3.9	A.9.1	TC20002	11.4.1.1	TTCN	Ensures terminal transmits a valid SETUP message and enters the Call Initiated state (state 1).
A.3.10	A.10.1	TC10103	11.4.6.3	TTCN	Ensures on receipt of a RELEASE message the terminal responds with a RELEASE COMPLETE message and enters the Null state.
A.3.10	A.10.2	TC10102	11.4.6.3	TTCN	Ensures on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.10	A.10.3.1	TC10107	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.10	A.10.3.2	TC10120	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.10	A.10.4.1	TC10105	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.10	A.10.5	TC10101	11.4.1.3.1	TTCN	Ensures that on receipt of a CALL PROCEEDING message the terminal enters the Outgoing CALL PROCEEDING state.
A.3.10	A.10.6	TC10104	11.4.1.2	TTCN	Ensures on receipt of a SETUP ACKNOWLEDGE message the terminal enters the Overlap Sending state.
A.3.11	A.11.1	TC10204	11.4.3.4.2	TTCN	Ensures on receipt of a DISCONNECT message the terminal moves into the Disconnect Indication state.
A.3.11	A.11.2	TC10208	11.4.6.3	TTCN	Ensures on receipt of a RELEASE message the terminal responds with a RELEASE COMPLETE message and enters the Null state.
A.3.11	A.11.3	TC10207	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.11	A.11.4.1	TC10211	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.11	A.11.4.2	TC10224	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.11	A.11.6.1	TC10210	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.11	A.11.8	TC10203	11.4.1.3.2	TTCN	Ensures on receipt of a CALL PROCEEDING message the terminal enters the Outgoing CALL PROCEEDING state (state 3).
A.3.11	A.11.9	TC10201	11.4.1.4	TTCN	Ensures on receipt of an ALERTING message the terminal enters the Call Delivered state.
A.3.11	A.11.10	TC10202	11.4.1.5	TTCN	Ensures on receipt of a CONNECT message the terminal enters the Active state (a CONNECT ACKNOWLEDGE response from the terminal is optional).
A.3.11	A.11.11	TC20204	11.4.1.2	TTCN	Ensures the terminal transmits an INFORMATION message when prompted and remains in the same state.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.11	A.11.12	TC20203	11.4.3.3	TTCN	Ensures the terminal transmits a DISCONNECT message and enters the Disconnect request state on initiation of call clearing by the terminal.
A.3.12	A.12.1	TC10303	11.4.3.4.2	TTCN	Ensures on receipt of a DISCONNECT message the terminal enters the Release Request state.
A.3.12	A.12.2	TC10307	11.4.6.3	TTCN	Ensures on receipt of a RELEASE message the terminal responds with a RELEASE COMPLETE message and enters the Null state.
A.3.12	A.12.3	TC10306	11.4.6.3	TTCN	Ensures on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.12	A.12.4.1	TC10310	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.12	A.12.4.2	TC10323	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.12	A.12.6.1	TC10309	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the NULL state, the terminal moves into the Null state.
A.3.12	A.12.9	TC10302	11.4.1.5	TTCN	Ensures on receipt of a CONNECT message the terminal enters the Active state (a CONNECT ACKNOWLEDGE response from the terminal is optional).
A.3.12	A.12.10	TC20301	11.4.3.3	TTCN	Ensures that when the terminal transmits a DISCONNECT message it enters the Disconnect Request state.
A.3.13	A.13.1	TC10402	11.4.3.4.2	TTCN	Ensures on receipt of a DISCONNECT message the terminal responds with a RELEASE message and enters Release Request state.
A.3.13	A.13.2	TC10406	11.4.6.3	TTCN	Ensures on receipt of a RELEASE message the terminal responds with a RELEASE COMPLETE message and enters the Null state.
A.3.13	A.13.3	TC10405	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.13	A.13.4.1	TC10409	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.13	A.13.4.2	TC10422	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with STATUS message and that no change of state occurs.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.13	A.13.6.1	TC10408	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.13	A.13.8	TC10401	11.4.1.5	TTCN	Ensures on receipt of a CONNECT message the terminal enters the Active state (a CONNECT ACKNOWLEDGE response from the terminal is optional).
A.3.13	A.13.9	TC20401	11.4.3.3	TTCN	Ensures that when the terminal transmits a DISCONNECT message it enters the Disconnect Request state.
A.3.14	A.14.1	TC11101	11.4.3.4.2 11.4.3.5	TTCN	Ensures the terminal responds to a DISCONNECT message with a RELEASE message and enters the Release Request state.
A.3.14	A.14.2	TC11105	11.4.3.3	TTCN	Ensures the terminal responds to a RELEASE message with a RELEASE COMPLETE message and enters the Null state.
A.3.14	A.14.3	TC11104	11.4.6.3	TTCN	Ensures that on receipt of a RELEASE COMPLETE message the terminal makes no response but returns to the Null state.
A.3.14	A.14.4.1	TC11107	11.4.6.3 11.4.6.7	TTCN	Ensures the terminal responds to an inopportune message a STATUS message and that no change of state occurs.
A.3.14	A.14.4.2	TC11120	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.
A.3.14	A.14.6.1	TC11106	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message specifying the Null state, the terminal moves into the Null state.
A.3.14	A.14.7	TC11103	11.4.7	TTCN	Ensures that on receipt of a NOTIFY message the terminal makes no response or returns a STATUS message and remains in the same state.
A.3.16	A.16.1	TC11904	11.4.3.5 11.4.6.3	TTCN	Ensures that on receipt of a RELEASE message the terminal enters the Null state immediately. This is a test of RELEASE collision handling.
A.3.16	A.16.2	TC11903	11.4.3.4.3 11.4.6.3	TTCN	Ensures the terminal on receipt of a RELEASE COMPLETE message clears down to the Null state.
A.3.16	A.16.3.1	TC11908	11.4.6.3	TTCN	Ensures the terminal responds to an inopportune message with a STATUS message and that no change of state occurs.
A.3.16	A.16.3.2	TC11909	11.4.6.3	TTCN	Ensures the terminal responds to a message having an invalid message type with a STATUS message and that no change of state occurs.

(1) Draft prTBR 4, April 1994.

Reference to NET 5	Reference to NET 3	Reference to I-ETS 300 322	Reference to draft prTBR 4 (1)	Means of test specification	Test purpose as defined in NET 5
A.3.16	A.16.5.1	TC11906	11.4.6.8	TTCN	Ensures that on receipt of a STATUS message the terminal releases the resources and moves into the Null state.
A.3.16	A.16.5.2	TC11907	11.4.6.8	TTCN	In this case ensures that on receipt of a STATUS message the terminal makes no response and remains in the same state.
A.3.20.3	–	TC19003	11.4.8	TTCN	Ensures that on receipt of a RESTART message the specified channel is returned to the idle condition, the call reference is returned to the Null state, and a RESTART ACKNOWLEDGE is sent.

(1) Draft prTBR 4, April 1994.

ANNEX III

Supplementary information

Test suites to be used to demonstration compliance with the relevant essential requirements could, in a number of cases, be based upon the tests using the TTCN notation. These tests are found under the following references: I-ETS 300 312, I-ETS 300 313 and I-ETS 300 322.

The full text of these I-ETS can be obtained from the following address:

European Telecommunications Standards Institute,
F-06921 Sophia Antipolis Cedex.