



SLOVENSKI STANDARD
DSIST ETS 300 336:1998
01-ZYVfi Uf-1998

8] [] H U bc `ca f Y y ^ n `] b h Y [f] f U b] a] g l c f] h j U a] f l G 8 B L ! ` G] [b U] n U W] U y H ` + ! ` G d c f c] b c
! d f Y b c g b] X Y ` f A H D L ! ` D f Y g _ i y U b U g d Y W Z _ U W] U f d f Y c V] _ c j U b] d f] d c f c]] ` H ! H
E "+, %] b ` E "+, & f l % - ' L

Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP); Test specification [ITU-T Recommendations Q.781 and Q.782 (1993), modified]

Ta slovenski standard je istoveten z: ETS 300 336 Edition 1

ICS:

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

DSIST ETS 300 336:1998

en



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 336

September 1996

Source: ETSI TC-SPS

Reference: T/S 43-17

ICS: 33.080

Key words: ISDN, SS7, MTP, testing

**Integrated Services Digital Network (ISDN);
Signalling System No.7;
Message Transfer Part (MTP);
Test specification**

[ITU-T Recommendations Q.781 and Q.782 (1993), modified]

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1996. All rights reserved.

Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
Date of adoption of this ETS:	6 September 1996
Date of latest announcement of this ETS (doa):	31 December 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 June 1997
Date of withdrawal of any conflicting National Standard (dow):	30 June 1997

Endorsement notice

The text of ITU-T Recommendations Q.781 (1993) and Q.782 (1993) was approved by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary. For the tests, bold font is used in addition to increase legibility.

Global modifications to ITU-T Recommendations Q.781 and Q.782

Insert the following two clauses (scope and normative references):

Scope

This European Telecommunication Standard (ETS) defines a set of detailed tests of the Signalling System No.7 Message Transfer Part (MTP) level 2 and level 3 protocol. These tests intend to validate the protocol specified in ETS 300 008-1 [1].

This ETS conforms to ITU-T Recommendation Q.780 [2] which describes the basic rules of the test specifications, however, it contains additional general principles specific to level 2 and level 3 tests, respectively.

Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 008-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]".
- [2] ITU-T Recommendation Q.780 (1993): "Signalling System No.7 test specification general description".

Throughout the text of ITU-T Recommendations Q.781 and Q.782

Replace references as shown below.

Reference in ITU-T Recommendations Q.781 and Q.782	Modified reference
ITU-T Recommendation Q.701	ITU-T Recommendation Q.701 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.702	ITU-T Recommendation Q.702 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.703	ITU-T Recommendation Q.703 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.704	ITU-T Recommendation Q.704 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.707	ITU-T Recommendation Q.707 as modified by ETS 300 008-1 [1]

Modifications to ITU-T Recommendation Q.781

Test number 1.5

Modify the test as follows:

TEST NUMBER: 1.5	PAGE: 1 OF 1
REFERENCE: Q.703 Clause 7 <u>STD: Fig. 8; Fig. 9</u>	
TITLE: Link State Control – Expected signal units/orders	
SUB TITLE: Normal alignment – correct procedure (FISU)	
PURPOSE: To check normal alignment procedure	
PRE-TEST CONDITIONS: Link out of service	
CONFIGURATION: 1	TYPE OF TEST: VAT, CPT
MESSAGE SEQUENCE:	
SP B Link 1 – 0 SIOS 1 – 0 SIO 1 – 0 SIN 1 – 0 FISU	SP A Link 1 – 0 SIOS : start 1 – 0 SIO 1 – 0 SIN 1 – 0 FISU
TEST DESCRIPTION	
1.	Start normal alignment procedure.
2.	Check link aligns and enters “In service” state.
3.	Check that “In service” state is maintained.
4.	In VAT only check it is possible to perform a normal alignment procedure in the following cases: – use LSSU in point B with a status field of 8 bits; – use LSSU in point B with a status field of 16 bits.

Test number 1.7

Modify the test as follows:

TEST NUMBER: 1.7		PAGE: 1 OF 1	
REFERENCE: Q.703 Clauses 7, 10.3 STD: Fig. 9; Fig. 17			
TITLE: Link State Control – Expected signal units/orders			
SUB TITLE: SIO received during normal proving period			
PURPOSE: To test the response to the reception of an SIO during the normal proving period			
PRE-TEST CONDITIONS: Link out of service			
CONFIGURATION: 1		TYPE OF TEST: VAT	
EXPECTED SIGNAL UNIT SEQUENCE:			
	SP B		SP A
Link		Link	
		1 – 0	SIOS
1 – 0	SIOS		
			: start
		1 – 0	SIO
1 – 0	SIO		
		1 – 0	SIN
1 – 0	SIN		
			T4 Stopped
1 – 0	SIO (one only)		
1 – 0	SIN		
		1 – 0	SIN T4(Pn)
		1 – 0	FISU
TEST DESCRIPTION			
1.	Send an SIO at B during normal proving period.		
2.	Check that new normal period is entered.		

Test number 4.1

Modify the test as follows:

TEST NUMBER: 4.1		PAGE: 1 OF 1	
REFERENCE: Q.703 Clause 8 STD: Fig. 10			
TITLE: Processor outage control			
SUB TITLE: Set and clear LPO while link in service			
PURPOSE: To check the ability to perform correctly when LPO is set and recovered			
PRE-TEST CONDITIONS: Link in service			
CONFIGURATION: 1		TYPE OF TEST: VAT	
EXPECTED SIGNAL UNIT SEQUENCE:			
	SP B		SP A
Link		Link	
		1 - 0	FISU (FSN = 7F, BSN = 7F)
1 - 0	FISU (FSN = 7F, BSN = 7F)		
			accepted
		1 - 0	MSU (1) (FSN = 0, BSN = 7F)
		1 - 0	MSU (2) (FSN = 1, BSN = 7F)
			: set LPO
1 - 0	MSU (FSN = 0, BSN = 0)		
		1 - 0	SIPO (FSN = <u>1</u> 0 , BSN = 7F)
<u>1 - 0</u>	<u>FISU</u> <u>(FSN = 0, BSN = 0)</u>		
			: clear LPO
		1 - 0	MSU (3) (FSN = 1, BSN = 5)
TEST DESCRIPTION			
1.	Set LPO at A while link in service.		
2.	Check that MSU from B is discarded.		
3.	Clear LPO at A after at least 1,2 s.		
4.	Check that "old" messages are flushed from level 2 buffers and not transmitted on the link. Check that new MSUs are sent correctly.		