



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.784.1

Corrigendum 1
(12/99)

SERIES Q: SWITCHING AND SIGNALLING

Specifications of Signalling System No. 7 – Test
specification

ISUP basic call test specification: Validation and
compatibility for ISUP'92 and Q.767 protocols

Corrigendum 1

ITU-T Recommendation Q.784.1 – Corrigendum 1

(Previously CCITT Recommendation)

ITU-T Q-SERIES RECOMMENDATIONS

SWITCHING AND SIGNALLING

SIGNALLING IN THE INTERNATIONAL MANUAL SERVICE	Q.1–Q.3
INTERNATIONAL AUTOMATIC AND SEMI-AUTOMATIC WORKING	Q.4–Q.59
FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN	Q.60–Q.99
CLAUSES APPLICABLE TO ITU-T STANDARD SYSTEMS	Q.100–Q.119
SPECIFICATIONS OF SIGNALLING SYSTEMS No. 4 AND No. 5	Q.120–Q.249
SPECIFICATIONS OF SIGNALLING SYSTEM No. 6	Q.250–Q.309
SPECIFICATIONS OF SIGNALLING SYSTEM R1	Q.310–Q.399
SPECIFICATIONS OF SIGNALLING SYSTEM R2	Q.400–Q.499
DIGITAL EXCHANGES	Q.500–Q.599
INTERWORKING OF SIGNALLING SYSTEMS	Q.600–Q.699
SPECIFICATIONS OF SIGNALLING SYSTEM No. 7	Q.700–Q.849
General	Q.700
Message transfer part (MTP)	Q.701–Q.709
Signalling connection control part (SCCP)	Q.711–Q.719
Telephone user part (TUP)	Q.720–Q.729
ISDN supplementary services	Q.730–Q.739
Data user part	Q.740–Q.749
Signalling System No. 7 management	Q.750–Q.759
ISDN user part	Q.760–Q.769
Transaction capabilities application part	Q.770–Q.779
Test specification	Q.780–Q.799
Q3 interface	Q.800–Q.849
DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1	Q.850–Q.999
PUBLIC LAND MOBILE NETWORK	Q.1000–Q.1099
INTERWORKING WITH SATELLITE MOBILE SYSTEMS	Q.1100–Q.1199
INTELLIGENT NETWORK	Q.1200–Q.1699
SIGNALLING REQUIREMENTS AND PROTOCOLS FOR IMT-2000	Q.1700–Q.1799
BROADBAND ISDN	Q.2000–Q.2999

For further details, please refer to ITU-T List of Recommendations.

ITU-T RECOMMENDATION Q.784.1

ISUP BASIC CALL TEST SPECIFICATION: VALIDATION AND COMPATIBILITY FOR ISUP'92 AND Q.767 PROTOCOLS

CORRIGENDUM 1

Summary

The following changes are made to Recommendation Q.784.1 (07/96):

- Tests 1.4.5 and 8.2.3 are corrected and test 1.4.6 is added.

Source

Corrigendum 1 to ITU-T Recommendation Q.784.1 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 3 December 1999.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 2000

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

Recommendation Q.784.1

ISUP BASIC CALL TEST SPECIFICATION: VALIDATION AND COMPATIBILITY FOR ISUP'92 AND Q.767 PROTOCOLS

CORRIGENDUM 1

(Geneva, 1999)

1) Correct Test No. 1.4.5

ISUP Basic Call Test Specification

TEST NUMBER:	1.4.5				
TITLE:	Continuity check procedure				
SUBTITLE:	CCR not received: unsuccessful; verify T27 timer				
PURPOSE:	To verify that the continuity check procedure for the proper alignment of circuits can be correctly received				
REFERENCES:	Q.767: D.2.1.8/Q.767		ISUP'92: 2.1.8/Q.764		
PRE-TEST CONDITIONS:	a) Continuity check is required. b) Ensure that no backward check tone is detected within the specified time out. c) The data in SP B is arranged such that no CCR message is generated.				
TYPE OF TEST:	Q.767 VAT	Q.767 CPT	ISUP'92 VAT	ISUP'92 CPT	Comb. CPT
	X		X		
EXPECTED MESSAGE SEQUENCE: <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> <p>SP A</p> </div> <div style="text-align: center;"> <p>SP B</p> </div> </div>					
	TEST DESCRIPTION				
1	Make a call from SP B to SP A. Record the message sequence using a signal monitor.				
2	CHECK A: IS T27 INITIATED AT SP A TO WAIT FOR CCR?...				
3	CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE?...				

2) **Add Test No. 1.4.6**

ISUP Basic Call Test Specification

TEST NUMBER: 1.4.6					
TITLE: Continuity check procedure					
SUBTITLE: CCR not received; unsuccessful; verify T27 timer					
PURPOSE: To verify that the continuity check procedure for the proper alignment of circuits can be correctly received					
REFERENCES:		Q.767: D.2.1.8/Q.767		ISUP'92: 2.1.8/Q.764	
PRE-TEST CONDITIONS: <ul style="list-style-type: none"> a) Continuity check is required. b) Ensure that no backward check tone is detected within the specified time out. c) The data in SP B is arranged such that no second CCR message is generated. 					
TYPE OF TEST:	Q.767 VAT	Q.767 CPT	ISUP'92 VAT	ISUP'92 CPT	Comb. CPT
	X		X		
<p>EXPECTED MESSAGE SEQUENCE:</p> <pre> sequenceDiagram participant SPA as SP A participant SPB as SP B SPB->>SPA: CCR SPA-->>SPB: Check tone SPB->>SPA: COT (failed) SPA->>SPB: RSC SPB->>SPA: RLC Note over SPA,SPB: T27 </pre>					
TEST DESCRIPTION					
1	Initiate a continuity check procedure from SP B to SP A with an explicit CCR message. Record the message sequence using a signal monitor.				
2	CHECK A: IS T27 INITIATED AT SP A TO WAIT FOR CCR?...				
3	CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE?...				

3) **Correct Test No. 8.2.3**

ISUP Basic Call Test Specification

TEST NUMBER:		8.2.3			
TITLE:		ISUP availability control			
SUBTITLE:		T4: failure to receive a response to a UPT			
PURPOSE:		To verify that SP A is able to restart the availability test procedure after expiry of timer T4			
REFERENCES:		Q.767:	ISUP'92: 2.13/Q.764		
PRE-TEST CONDITIONS:		Arrange that ISUP of SP B becomes unavailable for SP A, e.g. by sending a MTP user part unavailable message (UPU) with the cause "user part unavailability – inaccessible remote user" from SP B to SP A. Arrange for SP B that a user part available message will not be returned			
TYPE OF TEST:	Q.767 VAT	Q.767 CPT	ISUP'92 VAT	ISUP'92 CPT	Comb. CPT
			X		
<p>EXPECTED MESSAGE SEQUENCE:</p> <pre> sequenceDiagram participant SPA as SP A participant SPB as SP B SPA->>SPB: UPT activate SPA SPA-->>SPA: T4 deactivate SPA SPA->>SPB: UPT activate SPA </pre>					
TEST DESCRIPTION					
1	Arrange for SP A to send a user part test message. Record the message sequence using a signal monitor.				
2	CHECK A: WAS A USER PART TEST MESSAGE SENT AFTER T4 EXPIRED?...				
3	CHECK B: WAS THE MESSAGE SEQUENCE AS ABOVE?...				

ITU-T RECOMMENDATIONS SERIES

Series A	Organization of the work of the ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communications
Series Y	Global information infrastructure
Series Z	Languages and general software aspects for telecommunication systems