



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2735.1

(06/97)

SERIES Q: SWITCHING AND SIGNALLING

**Broadband ISDN – B-ISDN application protocols for the
network signalling**

**Stage 3 description for community of interest
supplementary services for B-ISDN using
SS No.7: Closed User Group (CUG)**

ITU-T Recommendation Q.2735.1

(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
Signalling for satellite systems	Q.48–Q.49
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
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.1999
BROADBAND ISDN	Q.2000–Q.2999
General aspects	Q.2000–Q.2099
Signalling ATM adaptation layer (SAAL)	Q.2100–Q.2199
Signalling network protocols	Q.2200–Q.2299
Common aspects of B-ISDN application protocols for access signalling and network signalling and interworking	Q.2600–Q.2699
B-ISDN application protocols for the network signalling	Q.2700–Q.2899
B-ISDN application protocols for access signalling	Q.2900–Q.2999

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

ITU-T RECOMMENDATION Q.2735.1**STAGE 3 DESCRIPTION FOR COMMUNITY OF INTEREST SUPPLEMENTARY SERVICES FOR B-ISDN USING SS No. 7: CLOSED USER GROUP (CUG)****Summary**

This Recommendation specifies the stage 3 of the Closed User Group (CUG) supplementary service for the Broadband Integrated Services Digital Network (B-ISDN) at the Network Node Interface (NNI) by means of the Broadband ISDN User Part (B-ISUP) protocol.

Closed User Group (CUG) enables users to form groups, to and from which access is restricted. A specific user may be a member of one or more CUGs. Members of a specific CUG can communicate among themselves, but not with users outside the group. Specific CUG members can have additional capabilities, that allow them to originate calls outside the group, and/or to receive calls from outside the group. Specific CUG members can have additional restrictions that prevent them from originating calls to other members of the CUG, or from receiving calls from other members of the CUG.

Source

ITU-T Recommendation Q.2735.1 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 5th of June 1997.

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/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 1997

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.

CONTENTS

	Page
1 Closed User Group (CUG)	1
1.1 Scope	1
1.2 References	1
1.3 Definitions and abbreviations.....	2
1.3.1 Definitions.....	2
1.3.2 Abbreviations	2
1.4 Description	2
1.5 Specification model.....	3
1.6 CUG application process functions.....	3
1.6.1 Primitive interface AP/SACF.....	3
1.6.2 Procedures	4
1.7 SACF.....	7
1.7.1 Primitive interface SACF/MTP.....	7
1.7.2 Procedures	7
1.8 CUG ASE.....	8
1.8.1 Primitive interface SACF/CUG ASE.....	8
1.8.2 Procedures	9
1.9 Interactions	9
1.9.1 Interactions with CS 1	9
1.9.2 Interactions with other supplementary services	9
1.10 Interworking	11
1.10.1 Interworking with ISUP	11
1.10.2 Interworking with DSS 2.....	11
Appendix I – Instruction indicator setting	12

Recommendation Q.2735.1**STAGE 3 DESCRIPTION FOR COMMUNITY OF INTEREST SUPPLEMENTARY SERVICES FOR B-ISDN USING SS No. 7: CLOSED USER GROUP (CUG)***(Geneva, 1997)***1 Closed User Group (CUG)****1.1 Scope**

This Recommendation specifies the stage 3 of the Closed User Group (CUG) supplementary service for the Broadband Integrated Services Digital Network (B-ISDN) at the Network Node Interface (NNI) by means of the Broadband ISDN User Part (B-ISUP) protocol.

1.2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU Recommendation E.164 (1997), *The international public telecommunication numbering plan.*
- [2] CCITT Recommendation I.255.1 (1992), *Community of interest supplementary services: Closed User Group.*
- [3] CCITT Recommendation Q.85.1 (1992), *Stage 2 description for community of interest supplementary services: Closed User Group.*
- [4] ITU Recommendation Q.2650 (1995), *Interworking between Signalling System No. 7 Broadband ISDN User Part (B-ISUP) and Digital Subscriber Signalling System No. 2 (DSS 2).*
- [5] ITU Recommendation Q.2660 (1995), *Interworking between Signalling System No. 7 – Broadband ISDN User Part (B-ISUP) and Narrow-band ISDN User Part (N-ISUP).*
- [6] ITU Recommendation Q.2730 (1995), *Signalling System No. 7 B-ISDN User Part (B-ISUP) – Supplementary services.*
- [7] ITU Recommendation Q.2761 (1995), *Functional description of the B-ISDN User Part (B-ISUP) of Signalling System No. 7.*
- [8] ITU Recommendation Q.2762 (1995), *General functions of messages and signals of the B-ISDN User Part (B-ISUP) of Signalling System No. 7.*
- [9] ITU Recommendation Q.2763 (1995), *Signalling System No. 7 B-ISDN User Part (B-ISUP) – Formats and codes.*
- [10] ITU Recommendation Q.2764 (1995), *Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic call procedures.*