



INTERNATIONAL TELECOMMUNICATION UNION

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

# Q.2951.9

(12/1999)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for  
access signalling

---

**Stage 3 description for number identification  
supplementary services using B-ISDN digital  
subscriber signalling system No. 2 (DSS2) –  
Basic call: Support of ATM end system  
addressing format by Number identification  
supplementary services**

ITU-T Recommendation Q.2951.9

(Formerly 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.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        |
| 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>B-ISDN application protocols for access signalling</b>                                                    | <b>Q.2900-Q.2999</b> |

*For further details, please refer to the list of ITU-T Recommendations.*

**Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: Support of ATM end system addressing format by Number identification supplementary services**

**Summary**

This Recommendation belongs to the DSS2 family of ITU-T Recommendations and specifies extensions to Recommendations Q.2951.1, Q.2951.2, Q.2951.3 and Q.2951.5 to detail the additional DSS2 traffic related protocol procedures and functions needed to support the use of ATM end system addresses within the DDI, MSN, CLIP and COLP supplementary services.

**Source**

ITU-T Recommendation Q.2951.9 was prepared by ITU-T Study Group 11 (1997-2000) and approved under the WTSC Resolution 1 procedure on 3 December 1999.

## FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSC Resolution 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

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. 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, 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 2001

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

|                                                                                                       | <b>Page</b> |
|-------------------------------------------------------------------------------------------------------|-------------|
| 1 Scope .....                                                                                         | 1           |
| 2 References .....                                                                                    | 1           |
| 3 Definitions .....                                                                                   | 2           |
| 4 Abbreviations .....                                                                                 | 2           |
| 5 Description .....                                                                                   | 2           |
| 6 Operational requirements .....                                                                      | 3           |
| 6.1 Provision/withdrawal.....                                                                         | 3           |
| 6.2 Requirements on the originating network side .....                                                | 3           |
| 6.3 Requirements on the terminating network side .....                                                | 3           |
| 7 State definitions .....                                                                             | 3           |
| 8 Coding requirements .....                                                                           | 3           |
| 9 Signalling requirements at the coincident S <sub>LB</sub> and T <sub>LB</sub> reference point ..... | 3           |
| 9.1 Delivery of Called party number to the called user in case of MSN or DDI .....                    | 3           |
| 9.2 CLIP .....                                                                                        | 4           |
| 9.2.1 Actions at the originating local exchange .....                                                 | 4           |
| 9.2.2 Actions at the destination local exchange .....                                                 | 5           |
| 9.2.3 Interworking with other networks .....                                                          | 5           |
| 9.3 COLP .....                                                                                        | 5           |
| 9.3.1 Actions at the destination local exchange .....                                                 | 5           |
| 9.3.2 Actions at the originating local exchange .....                                                 | 5           |
| 9.3.3 Interworking with other networks .....                                                          | 6           |



Documents

Document Sharing Hub