INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2957.1

Amendment 1

(12/1999)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for access signalling

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Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: User-to-user signalling (UUS)

Amendment 1

ITU-T Recommendation Q.2957.1 – Amendment 1

(Formerly CCITT Recommendation)

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ITU-T Recommendation Q.2957.1

Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: User-to-user signalling (UUS)

AMENDMENT 1

Summary

This amendment to Recommendation Q.2957.1 has been prepared to enable the transfer of additional information that is usable for the control of the operation of the Internet Protocol over switched VC connections. Recommendation Q.2957.1 defines the operation of the Digital subscriber Signalling System No. 2 (DSS2) for the support of the User-to-User Signalling (UUS) supplementary service at the T_B or the coincident S_B and T_B reference point of the user to network interface of the Broadband Integrated Services Digital Network (B-ISDN).

Source

Amendment 1 to ITU-T Recommendation Q.2957.1 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.

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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.

CONTENTS

Introduction

This amendment to Recommendation Q.2957.1 has been prepared to enable the transfer of additional information that is usable for the control of the operation of the Internet Protocol over switched VC connections. Recommendation Q.2957.1 defines the operation of the Digital subscriber Signalling System No. 2 (DSS2) for the support of the User-to-User Signalling (UUS) supplementary service at the T_B or the coincident S_B and T_B reference point of the user to network interface of the Broadband Integrated Services Digital Network (B-ISDN).

This amendment includes an additional reference, modification of the format and the coding of User-to-User information element, and the new appendix (Appendix III), for the coding.

The differences from ITU-T Recommendation Q.2957.1 (1995) are marked to emphasise the compatibility of this amendment with the original publication of this Recommendation.

ITU-T Recommendation Q.2957.1

Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: User-to-user signalling (UUS)

AMENDMENT 1

1) Replace current subclause 1.2/Q.2957.1 with the reference below

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-T Recommendation I.413 (1993), *B-ISDN user-network interface*.

[2] CCITT Recommendation I.130 (1988), *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN*.

[3] ITU-T Recommendation Q.2931 (1995), *Digital Subscriber Signalling No. 2 (DSS 2) – User-network interface (UNI) layer 3 specification for basic call/connection control*.

[4] CCITT Recommendation E.164 (1991), *Numbering plan for the ISDN era*.

[5] CCITT Recommendation I.257.1 (1992), *User-to-user signalling*.

[6] CCITT Recommendation X.213 (1992), | ISO/IEC 8348:1993, *Information technology – Open Systems Interconnection – Network service definition.*

[7] ITU-T Recommendation I.580 (1993), *General arrangements for interworking between B-ISDN and 64 kbit/s based ISDN*.

[8] IETF RFC 3033 <draft-ietf-mpls-git-uus-04.txt>] (2000), *The assignment of the information field and protocol identifier in the Q.2941 Generic identifier and Q.2957 user-to-user signalling for the internet protocol.*

2) Replace current subclause 1.8.3/Q.2957.1, Information elements, with the description below

1.8.3 Information elements

The User-user information element is applicable to the operation of service 1.

The purpose of the User-user information element is to convey information between B-ISDN users. This information is not interpreted by the network, but rather is carried transparently and delivered to the remote user(s).

The User-user information element shall be considered as an access information element (see Annex J/Q.2931 [3]).

The coding for the User-user information element is shown in Figure 1-1 and Table 1-7.

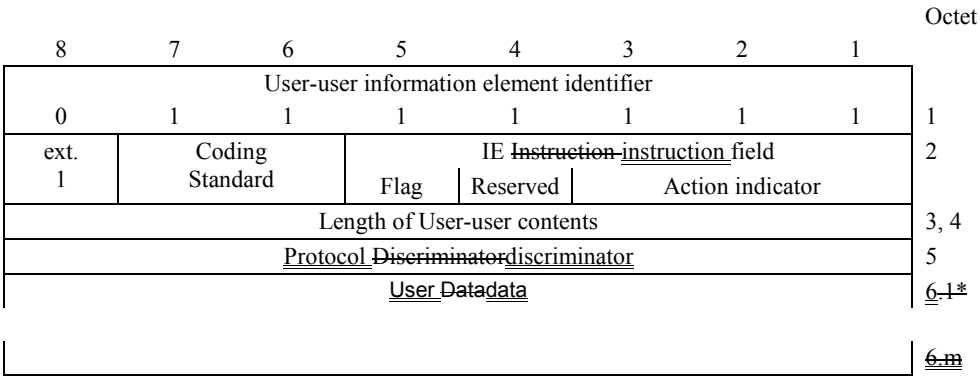

Figure 1-1/Q.2957.1 – User-user information element

Table 1-7/Q.2957.1 – User-user information element

Protocol discriminator (octet 5) (Note)
Bits
8 7 6 5 4 3 2 1
0 0 0 0 0 1 1 0 Additional information for the control of the Internet Protocol over switched VC connections is specified in IETF RFC 3033 [<draft-ietf-mpls-git-uus-04.txt>]
NOTE – Further values for the Protocol discriminator field are defined in the Table 4-26/Q.931 (for convenience these values are reproduced in Appendix III/Q.2957.1 Amendment 1).

3) New Appendix III/Q.2957.1, Coding of protocol discriminator

APPENDIX III

Coding of protocol discriminator

The coding is given in Table 4-26/Q.931 and attached to Recommendation Q.2957.1 for information. See Table III.1.

Table III.1/Q.2957.1 – User-user information element (Table 4-26/Q.931)

Protocol discriminator

Bits 8 7 6 5 4 3 2 1	
0 0 0 0 0 0 0 0	User-specific protocol (Note 1)
0 0 0 0 0 0 0 1	OSI high layer protocols
0 0 0 0 0 0 1 0	X.244 (Note 2)
0 0 0 0 0 0 1 1	Reserved for system management convergence function
0 0 0 0 0 1 0 0	IA5 characters (Note 4)
0 0 0 0 0 1 0 1	X.208 and X.209 coded user information (Note 5)
0 0 0 0 0 1 1 1	V.120 rate adaption
0 0 0 0 1 0 0 0	Q.931/I.451 user-network call control messages
0 0 0 1 0 0 0 0 through 0 0 1 1 1 1 1 1	Reserved for other network layer or layer 3 protocols, including Recommendation X.25 (Note 3)
0 1 0 0 0 0 0 0 through 0 1 0 0 1 1 1 1	National Use
0 1 0 1 0 0 0 0 through 1 1 1 1 1 1 1 0	Reserved for other network layer or layer 3 protocols, including Recommendation X.25 (Note 3)

All other values are reserved.

NOTE 1 – The user information is structured according to user needs.

NOTE 2 – The user information is structured according to Recommendation X.244 which specifies the structure of X.25 call user data.

NOTE 3 – These values are reserved to discriminate these protocol discriminators from the first octet of an X.25 packet including general format identifier.

NOTE 4 – The user information consists of IA5 characters.

NOTE 5 – The number of X.208 and X.209 components contained in a User-user information element as well as their semantics and use are user-application dependent and may be subject to other Recommendations.

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