



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2982

(12/99)

SERIES Q: SWITCHING AND SIGNALLING

**Broadband ISDN – B-ISDN application protocols for
access signalling**

**Broadband integrated services digital network
(B-ISDN) – Digital subscriber signalling No. 2
(DSS2) – Q.2931-based separated call control
protocol**

ITU-T Recommendation Q.2982

(Previously CCITT Recommendation)



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ITU-T RECOMMENDATION Q.2982

BROADBAND INTEGRATED SERVICES DIGITAL NETWORK (B-ISDN) – DIGITAL SUBSCRIBER SIGNALLING No. 2 (DSS2) – Q.2931-BASED SEPARATED CALL CONTROL PROTOCOL

Summary

This Recommendation belongs to the DSS2 family of ITU-T Recommendations and specifies extensions to Recommendation Q.2931 to specify the additional DSS2 protocol elements (messages, information elements, procedures and functions) required to support the separated control (establishment and clearing) of a point-to-point call. This Q.2931-based separated call control protocol requires the use of the bearer control protocol defined in Recommendation Q.2983 to add and remove bearers to/from the call.

Source

ITU-T Recommendation Q.2982 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 3 December 1999.

Keywords

Bearer control, call control, separation.

FOREWORD

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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.

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As of the date of approval of this Recommendation, the ITU had 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.

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Recommendation Q.2982

BROADBAND INTEGRATED SERVICES DIGITAL NETWORK (B-ISDN) – DIGITAL SUBSCRIBER SIGNALLING No. 2 (DSS2) – Q.2931-BASED SEPARATED CALL CONTROL PROTOCOL

(Geneva, 1999)

1 Scope

This Recommendation specifies the procedures for establishing, maintaining and clearing calls in a separated call and bearer control environment. Only point-to-point call control is specified in this Recommendation.

The call control protocol defined in this Recommendation is based on the Q.2931 [1] call/connection basic call control protocol with the relevant extensions and adaptations needed to enable the control of a call independently of the bearers, which can be subsequently added to the call and dropped from the call through the use of a bearer control protocol which is the subject of a separate Recommendation.

The procedures specified by this Recommendation are applicable at the T_B reference point or coincident S_B and T_B reference point as defined in Recommendation I.413 [2] by means of the Digital Subscriber Signalling System No. 2 (DSS2).

The Q.2931-based separated call control protocol defined by this Recommendation is applicable to control calls independently of bearers, which are controlled and associated separately to an existing call by means of the separated bearer control protocol defined by Recommendation Q.2983 [3].

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 Q.2931 (1995), *Digital subscriber signalling system No. 2 – User-network interface (UNI) layer 3 specification for basic call/connection control*.
- [2] ITU-T Recommendation I.413 (1993), *B-ISDN user-network interface*.
- [3] ITU-T Recommendation Q.2983 (1999), *Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Bearer control protocol*.
- [4] ITU-T Recommendation I.327 (1993), *B-ISDN functional architecture*.
- [5] ITU-T Recommendation Q.2130 (1994), *B-ISDN signalling ATM adaptation layer – Service specific coordination function for support of signalling at the user-network interface (SSCF at UNI)*.
- [6] ITU-T Recommendation Q.2984 (1999), *Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Pre-negotiation*.
- [7] ITU-T Recommendation Q.2941.1 (1997), *Digital subscriber signalling system No. 2 – Generic identifier transport*.