INTERNATIONAL TELECOMMUNICATION UNION

ITU-T RECOMMENDATION SUMMARY

Rec. No. : Q.922	**Title :** ISDN data link layer specification for frame mode bearer services

Study Group : XI - Switching and Signalling

Version : New	**Date of adoption :** 1992	Notes :

Recommendation Q.922 specifies the frame structure, elements of procedure, format of fields and procedures of the data link layer to support frame mode bearer services in the user plane as defined in Recommendation I.233.

This specification of a data link layer protocol and procedures for frame mode bearer services is based upon and is an extension of the LAPD (Link access procedure on the D-channel) protocol and procedures defined in Recommendation Q.921. The procedures are applicable to, but not restricted to, access a Frame Mode Bearer Service and are also designated link access procedures to frame mode bearer services, or LAPF. A subset of LAPF, corresponding to the data link core sublayer (as defined in Recommendation I.233), is used to support the Frame Relaying Bearer service. This subset is named "data link core protocol" (DL-CORE). The remainder of the LAPF is called the data link control (DL-CONTROL) protocol.

The purpose of the LAPF is to convey data link service data units between DL-service users in the U-plane for frame mode bearer services across the ISDN user-network interface on B-, D- or H-channels. Frame mode bearer connections are established using either procedures specified in Recommendation Q.933 or (for permanent virtual circuits) by subscription.

LAPF uses a physical layer service, as supported by the I.430 [4] Series Recommendations. LAPF allows for statistical multiplexing of one or more frame mode bearer connections over a single ISDN B-, D- or H-channel by use of LAPF and compatible HDLC procedures.

Network layer protocols which provide and support the N-Data-Transfer phase of the OSI connection oriented network service (CONS – See Recommendation X.213) may be conveyed by the service provided by Recommendation Q.922.

– the Data Transfer phase of Recommendation X.25, and

– the protocol specified in Recommendation Q.922.

DLCI assignment is performed using group signalling or by subscription or prior agreement.

The concepts, terminology, overview description of data link functions and procedures and the relationship with ther Recommendations are described in general terms in Recommendation Q.920.

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