

INTERNATIONAL TELECOMMUNICATION UNION

ITU-T RECOMMENDATION SUMMARY

Rec. No. : I.311 **Title :** B-ISDN General network aspects

Study Group : XVIII - ISDN

Version : New **Date of adoption :** 1991 **Notes :**

Recommendation I.311 describes networking techniques, signalling principles, traffic control and resources management for B-ISDN.

Networking techniques:

B-ISDN networking techniques include network layering aspects and applications of the virtual path and virtual channel.

Signalling principles:

In B-ISDN, the use of the asynchronous transfer mode (ATM) allows for a multiplicity of service types and characteristics and for the local separation of signalling from user information streams. A user may have multiple signalling entities connected to the network call management via separate ATM virtual channel connections. Recommendation I.311 identifies the signalling capabilities needed in B-ISDN and the requirements for establishing signalling communication paths.

Traffic control and resource management:

The B-ISDN, which is based on the ATM technique, is designed to transport a wide variety of traffic classes satisfying the required performance in terms of user and network requirements. To cope with these requirements, an ATM-based network will provide the following traffic control capabilities: connection admission control, usage parameter control, priority control, congestion control.

To order the complete text of this Recommendation, please use the Order Form for ITU-T Recommendations. An electronic version of this form is available on ITUDOC (Winword 2.0: UPI=ITU-5265; ASCII: UPI=ITU-2488).