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CCITT

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TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

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DATA COMMUNICATION NETWORKS

**INFORMATION TECHNOLOGY –
USE OF X.25 PACKET LAYER PROTOCOL
IN CONJUNCTION WITH X.21/X.21 *bis* TO
PROVIDE THE OSI CONNECTION-MODE
NETWORK SERVICE**



Recommendation X.613

Foreword

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The CCITT (the International Telegraph and Telephone Consultative Committee) is a permanent organ of the ITU. Some 166 member countries, 68 telecom operating entities, 163 scientific and industrial organizations and 39 international organizations participate in CCITT which is the body which sets world telecommunications standards (Recommendations).

The approval of Recommendations by the members of CCITT is covered by the procedure laid down in CCITT Resolution No. 2 (Melbourne, 1988). In addition, the Plenary Assembly of CCITT, which meets every four years, approves Recommendations submitted to it and establishes the study programme for the following period.

In some areas of information technology, which fall within CCITT's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC. The text of CCITT Recommendation X.613 was approved on 10th of September 1992. The identical text is also published as ISO/IEC International Standard 10588.

CCITT NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication Administration and a recognized private operating agency.

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INTERNATIONAL STANDARD

CCITT RECOMMENDATION

**INFORMATION TECHNOLOGY – USE OF X.25 PACKET LAYER PROTOCOL
IN CONJUNCTION WITH X.21/X.21 *bis* TO PROVIDE THE OSI CONNECTION-
MODE NETWORK SERVICE****1 Scope**

This CCITT Recommendation | International Standard is applicable to the environments where Recommendation X.21 or X.21 *bis* is used and where the X.25 packet layer protocol (PLP), as standardized in ISO/IEC 8208, is operated during the X.21/X.21 *bis* data phase to provide the OSI Connection-mode Network Service (CONS). These environments include a CSDN and an ISDN Terminal Adaptor complying with Recommendation X.30 which provides an X.21 access. The X.25 PLP operates either in the DTE/DTE or DTE/DCE mode.

This provision is achieved by specifying the mapping of the CONS primitives and parameters to and from the elements of the protocols used (i.e. X.25 PLP and X.21).

2 Normative references

The following CCITT Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The CCITT Secretariat maintains a list of the currently valid CCITT Recommendations.

2.1 Identical Recommendations | International Standards

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

2.2 Paired Recommendations | International Standards equivalent in technical content

- CCITT Recommendation X.200 (1988), *Reference Model of Open Systems Interconnection for CCITT Applications*.
ISO 7498:1984, *Information processing systems – Open Systems Interconnection – Basic Reference Model*.
- CCITT Recommendation X.210 (1988), *Open Systems Interconnection Layer Service Definition Conventions*.
ISO/TR 8509:1987, *Information processing systems – Open Systems Interconnection – Service conventions*.
- CCITT Recommendation X.223 (1988), *Use of X.25 to provide the OSI Connection-Mode Network Service for CCITT applications*.
ISO 8878:1987, *Information processing systems – Data Communications – Use of X.25 to provide the OSI Connection-Mode Network Service*.