Recommendation X.370

ARRANGEMENTS FOR THE TRANSFER OF

INTERNETWORK MANAGEMENT INFORMATION

(Melbourne, 1988)

The CCITT,

considering

(a) that Recommendation X.1 defines the international user classes of service in public data networks and ISDN;

(b) that Recommendation X.2 defines the international user services and facilities in PDNs and ISDN;

(c) that Recommendation X.10 defines the different categories of access of data terminal equipments (DTEs) to the different data transmission services provided by public data networks (PDNs) and ISDN;

(d) that Recommendation X.96 defines call progress signals including those used in conjuntion with international user facilities;

(e) that Recommendations X.20, X.20 *bis*, X.21, X.21 *bis*, X.25, X.28 and X.29 already specify the detailed procedures applicable to different types of DTE/DCE interfaces on PDNs;

(f) that Recommendations X.61, X.70, X.71 and X.75 already specify the detailed procedures applicable to call control between two PDNs on the same type;

(g) that PDNs may be used to support CCITT recommended services (in particular telematic services);

(h) that Recommendation X.200 specifies the reference model of open system interconnection for CCITT applications;

(i) that Recommendation X.213 defines the Network Layer service of open systems interconnection for CCITT Applications;

(j) that interworking with Common Channel Signalling Network (CCSN) needs to be considered, in view of the requirements for transferring operational information between Administrations;

(k) the need that DTEs can communicate through different networks, and through different interworking conditions between networks;

(l) the need for general principles and arrangements for interworking between public data networks and between public data networks and other public networks;

(m) the need, in particular:

- for certain user facilities and network utilities for communication through the national networks between the internationally defined data terminal equipment interface protocols and international inter-exchange control and signalling procedures;

- for certain internationally defined network utilities for international operation of public data networks;

- for compatibility and uniformity in the principles for realization of international user facilities and network utilities in public data networks,

unanimously recommends

that general principles and arrangements for interworking between public data networks and between public data networks and other public networks, and that the necessary elements:

- for arrangements for the transfer of internetwork management information be in accordance with the principles and procedures specified in this Recommendation.

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Arrangements for the transfer of internetwork management information.

1 General conditions for transferring internetwork management information

The transfer of internetwork management information of public data networks should be done in accordance with the reference model for OSI applications defined by CCITT, as illustrated in Figures 1/X.370 and 2/X.370.

Figure 1/X.370 - T0706770-88

Figure 2/X.370 - T0706780-88

2 Detailed arrangements at the network layer for the transfer of internetwork management information

The OSI services considered at the network layer conform to Recommendation X.213.

To access those OSI services, protocols at the physical, link and network layers depend on the networks involved in the transfer of management information. The exact protocols to be used are as specified in the previous section of this Recommendation.

3 Detailed arrangements at the transport layer for the transfer of internetwork management information

The OSI services considered at the transport layer conform to Recommendation X.214.

The protocol to be used at the transport layer conforms to Recommendation X.224.

The exact characteristics of the transport layer protocol (i.e. class of transport protocol, etc.) applying to the transfer of management information, are for further study.

4 Detailed arrangements at the session layer

For further study.

The OSI services considered at the session layer conform to Recommendation X.215.

The protocol to be used at the session layer conforms to Recommendation X.225.

The exact characteristics of the services and protocol at the session layer, applying to the transfer of management information, are for further study.

5 Detailed arrangements at the presentation layer

For further study.

6 Detailed arrangements at the application layer

For further study.