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ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.160

(10/96)

SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATION

Public data networks – Maintenance

Architecture for customer network management service for public data networks

ITU-T Recommendation X.160

(Previously CCITT Recommendation)

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For further details, please refer to ITU-T List of Recommendations.

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

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 (Helsinki, March 1-12, 1993).

ITU-T Recommendation X.160, was revised by ITU-T Study Group 7 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 5th of October 1996.

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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SUMMARY

This Recommendation defines an architectural framework for a service to provide customers of network services with management capabilities. It also refers to Recommendations which directly relate to provision of the service. The service is called the Customer Network Management (CNM). It allows customers and service providers to interact by electronic means, for the transfer of management information relating to public data network services being used by a customer. Customer Network Management addresses the requirement for efficient and effective interaction between customers and service providers. A consistent reference point is provided regardless of network services being managed.

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Recommendation X.160**ARCHITECTURE FOR CUSTOMER NETWORK MANAGEMENT
SERVICE FOR PUBLIC DATA NETWORKS***(revised 1996)***1 Scope**

This Recommendation is applicable to Customer Network Management (CNM) for Services provided by Public Data Networks. It may also apply to services provided by other networks. It defines the architectural framework for CNM making use of the concepts of Systems management, TMN and other related management standards. The relationship between the network service provider, network management, service management and the customer is presented in this Recommendation.

The scope of management information provided to the customer extends from specific instances of communication to a comprehensive view of all the services provided to the customer's organisation.

NOTE – Access control and security mechanisms are required and are for further study.

2 References

The following 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.

2.1 Identical Recommendations | International Standards

- ITU-T Recommendation X.281 (1995) | ISO/IEC 13642:1996, *Information technology – Elements of management information related to the OSI physical layer.*
- CCITT Recommendation X.701 (1992) | ISO/IEC 10040:1992, *Information technology – Open Systems Interconnection – Systems management overview.*
- CCITT Recommendation X.720 (1992) | ISO/IEC 10165-1:1993, *Information technology – Open Systems Interconnection – Structure of management information: Management information model.*
- CCITT Recommendation X.721 (1992) | ISO/IEC 10165-2:1992, *Information technology – Open Systems Interconnection – Structure of management information: Definition of management information.*
- CCITT Recommendation X.722 (1992) | ISO/IEC 10165-4:1992, *Information technology – Open Systems Interconnection – Structure of management information: Guidelines of the definition of managed objects.*
- ITU-T Recommendation X.723 (1993) | ISO/IEC 10165-5:1994, *Information technology – Open Systems Interconnection – Structure of management information: Generic Management Information.*
- ITU-T Recommendation X.724 (1996) | ISO/IEC 10165-6:1997, *Information technology – Open Systems Interconnection – Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management.*
- CCITT Recommendation X.730 (1992) | ISO/IEC 10164-1:1993, *Information technology – Open Systems Interconnection – Systems management: Object management function.*
- CCITT Recommendation X.731 (1992) | ISO/IEC 10164-2:1992, *Information technology – Open Systems Interconnection – Systems management: State management function.*

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