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ITU-T

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SERIES E: OVERALL NETWORK OPERATION,
TELEPHONE SERVICE, SERVICE OPERATION AND
HUMAN FACTORS

Quality of service, network management and traffic
engineering – Network management – International
network management

Network management principles and functions for B-ISDN traffic

ITU-T Recommendation E.416

(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION E.416

NETWORK MANAGEMENT PRINCIPLES AND FUNCTIONS FOR B-ISDN TRAFFIC

Summary

Network Management (NM) for B-ISDN traffic requires real-time monitoring of current network status and network performance. This Recommendation is intended to support and define the role of network management in the B-ISDN and broadband services. It explains the network management principles and functions. The major part of this Recommendation suggests the way traffic must be monitored and provides some indication of parameters for promptly detecting abnormal network traffic conditions. After the detection of the abnormal condition, automatic and possibly manual controls will be temporarily applied to the network to alleviate the problem until the problem is resolved. It is also necessary to frequently check the effects of the NM controls to note whether the control is actually helping with the problem and to determine when to modify or remove it from the network.

Source

ITU-T Recommendation E.416 was prepared by ITU-T Study Group 2 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 13 March 2000.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the 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.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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