SLOVENSKI STANDARD
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Prenos in multipleksiranje (TM) – Nabor protokolov za vmesnike Q za upravljanje prenosnih sistemov

Transmission and Multiplexing (TM); Protocol suites for Q interfaces for management of transmission systems

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ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE
Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE
X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS concerns the characteristics of Q interfaces for transmission systems and equipments, and the text is based on draft CCITT Recommendation G.773. Although in 1990 CCITT SGXV agreed to adopt the Recommendation under the accelerated approval procedure, ETSI TC-TM is seeking to provide an ETS for use in Europe rather quicker than this. The text of this ETS is to be revised in due course to take account of the eventual published version of the finally approved CCITT Recommendation G.773.

NOTE: Draft CCITT Recommendation G.773 is not normatively referenced in this ETS as most of the text is included. However, it is probable that a future edition will refer to it normatively, thereby reducing the size of this ETS.

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1 Scope

This ETS defines the characteristics of protocol suites for Q interfaces for transmission systems/equipments, as defined in CCITT Recommendations M.3010 [2] and G.773. Protocol suites for Q interfaces for other systems/equipments are to be specified in other ETSs. The interfaces will support bidirectional data transfer for the management of telecommunications systems.

This ETS defines:

- the layer services;
- the layer protocols;
- the application service elements and protocols;
- the conformance requirements to be met by an implementation of these interfaces.

This ETS does not define:

- the structure or meaning of the management information that is transmitted by means of the protocol suites;
- the manner in which management is accomplished as a result of the application protocol exchanges;
- the interactions which result in the use of the application layer protocols.

2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

[1] CCITT Recommendation E.164 (1992): "Numbering plan for the ISDN era".

[2] CCITT Recommendation M.3010 (1989): "Principles for a telecommunications management network".

[3] CCITT Recommendation V.10 (1988): "Electrical characteristics for unbalanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications" (also designated as CCITT Recommendation X.26).

[4] CCITT Recommendation V.11 (1988): "Electrical characteristics for balanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications" (also designated as CCITT Recommendation X.27).

[5] CCITT Recommendation V.24 (1988): "List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)".

[6] CCITT Recommendation V.28 (1988): "Electrical characteristics for unbalanced double-current interchange circuits".

[7] CCITT Recommendation V.35: "Data transmission at 48 kilobits per second using 60-108 kHz group band circuits".

[8] CCITT Recommendation X.21 (1992): "Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for synchronous operation on public data networks".

[9] CCITT Recommendation X.21 bis (1988): "Use on public data networks of data terminal equipment (DTE) which is designed for interfacing to synchronous V-Series modems".

[10] CCITT Recommendation X.25: "Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".

[11] CCITT Recommendation X.121 (1992): "International numbering plan for public data networks".

[12] CCITT Recommendation X.200 (1988): "Reference model of open systems interconnection for CCITT applications" (see also ISO 7498).

[13] CCITT Recommendation X.208 (1988): "Specification of abstract syntax notation one (ASN.1)" (see also ISO 8824).

[14] CCITT Recommendation X.209 (1988): "Specification of basic encoding rules for abstract syntax notation one (ASN.1)" (see also ISO 8825).

[15] CCITT Recommendation X.211 (1988): "Physical service definition of open systems interconnection for CCITT applications" (see also ISO/IEC 10022).

[16] CCITT Recommendation X.212 (1988): "Data link service definition for open systems interconnection for CCITT applications" (see also ISO 8886).

[17] CCITT Recommendation X.213 (1988): "Network service definition for open systems interconnection for CCITT applications" (see also ISO 8348).

[18] CCITT Recommendation X.214 (1988): "Transport service definition for open systems interconnection for CCITT applications" (see also ISO 8072).

[19] CCITT Recommendation X.215 (1988): "Session service definition for open systems interconnection for CCITT applications" (see also ISO 8326).

[20] CCITT Recommendation X.216 (1988): "Presentation service definition for open systems interconnection for CCITT applications" (see also ISO 8822).

[21] CCITT Recommendation X.217 (1992): "Association control service definition for open systems interconnection for CCITT applications" (see also ISO 8649).

[22] CCITT Recommendation X.219 : "Remote operations: model, notation and service definition" (see also ISO 9072-1).

[23] CCITT Recommendation X.223 : "Use of X.25 to provide the OSI connection-mode network service for CCITT Applications" (see also ISO 8878).

[24] CCITT Recommendation X.224 (1988): "Transport protocol specification for Open Systems Interconnection for CCITT Applications" (see also ISO 8073).

[25] CCITT Recommendation X.225: "Session protocol specification for Open Systems Interconnection for CCITT Applications" (see also ISO 8327).

[26] CCITT Recommendation X.226: "Presentation protocol specification for Open Systems Interconnection for CCITT Applications"(see also ISO 8823).

[27] CCITT Recommendation X.227 (1992): "Association control protocol specification for Open Systems Interconnection for CCITT Applications" (see also ISO 8650).

[28] CCITT Recommendation X.229: "Remote operations: Protocol specification" (see also ISO 9072-2).

[29] CCITT Recommendation X.244: "Procedure for the exchange of protocol identification during virtual call establishment on packet switched public data networks".

[30] ISO 2110 (1980): "Information technology - Data communication - 25-pole DTE/DCE interface connector and contact number assignments".

[31] ISO 2593 (1984): "Data communication - 34 Pin DTE/DCE interface connector and pin assignments".

[32] ISO 3309 (1988): "Information processing systems - Data communication - High-level data link control procedures - Frame structure".

[33] ISO 4335 (1987): "Information processing systems - Data communication - High-level data link control procedures - Consolidation of elements of procedures".

[34] ISO 4902 (1989): "Information technology - Data communication - 37-pole DTE/DCE interface connector and contact number assignments".

[35] ISO 4903 (1989): "Information technology - Data communication - 15-pole DTE/DCE interface connector and contact number assignments".

[36] ISO 7776 (1986): "Information processing systems - Data communication - High-level data link control procedures - Description of the X.25 - LAPB-compatible DTE data link procedures".

[37] ISO 7809 (1984): "Information processing systems - Data communication - High-level data link control procedures - Consolidation of classes of procedures".

[38] ISO 8072 (1986): "Information processing systems - Open Systems Interconnection - Transport service definition".

[39] ISO 8073 (1988): "Information processing systems - Open Systems Interconnection - Connection oriented transport protocol specification".

[40] ISO 8073/Add.1 (1988): "Information processing systems - Open Systems Interconnection - Connection oriented transport protocol specification - Addendum 1: Network connection management subprotocol".

[41] ISO 8073/Add.2 (1989): "Information processing systems - Open Systems Interconnection - Connection oriented transport protocol specification - Addendum 2: Class 4 operation over connectionless network service".

[42] ISO 8208:1987: "Information processing systems - Data communications - X.25 Packet Level Protocol for Data Terminal Equipment".

[43] ISO 8348/Add.1 (1987): "Information processing systems - Data communication - Network service definition - Addendum 1: Connectionless-mode transmission".

[44] ISO 8348/Add.2 (1988): "Information processing systems - Data communication - Network service definition - Addendum 2: Network layer addressing".