
Information technology - International Standardized Profile TAnnnn - Connection-mode Transport Service over Connectionless-mode Network Service - Part 13: MAC sublayer and physical layer dependent requirements for a Token Ring LAN (ISO/IEC ISP 10608-13:1994)

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Technologie de l'information - Profil normalisé international TAnnnn - Service de transport en mode connexion sur service de réseau en mode sans connexion - Partie 13: Spécifications dépendantes de la sous-couche MAC et de la couche physique pour sous-réseau LAN en anneau a jeton (ISO/IEC ISP 10608-13:1994)

Ta slovenski standard je istoveten z: EN ISP 10608-13:1996

ICS:

35.100.05 X^ • [[b ^ Á] [| æ } ã \ ^
|^zãç^ Multilayer applications

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EUROPEAN STANDARD

EN ISP 10608-13

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1996

ICS 35.100

Descriptors: See ISO document

English version

**Information technology - International
Standardized Profile TAnnnn - Connection-mode
Transport Service over Connectionless-mode
Network Service - Part 13: MAC sublayer and
physical dependent requirements for a Token Ring
LAN subnetwork (ISO/IEC ISP 10608-13:1994)**

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MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO

Urad RS za standardizacijo in meroslovje
LJUBLJANA

SIST..... EN ISP 10608-13

PREVZET PO METODI RAZGLASITVE

-12- 1997

This European Standard was approved by CEN on 1995-10-04. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Ref. No. EN ISP 10608-13:1996 E

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Foreword

The text of the International Standard from ISO/IEC/JTC 1 "Information Technology" of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) has been taken over as a European Standard by CEN Technical Board.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1996, and conflicting national standards shall be withdrawn at the latest by July 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO/IEC ISP 10608-13:1994 has been approved by CEN as a European Standard without any modification.

For the time being, this document exists in the English version only.

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INTERNATIONAL
STANDARDIZED
PROFILE

ISO/IEC
ISP
10608-13

First edition
1994-05-15

**Information technology — International
Standardized Profile TAnnnn —
Connection-mode Transport Service over
Connectionless mode Network Service —
(Part 13: MAC sublayer and physical layer
dependent requirements for a Token Ring
LAN subnetwork)**

*Technologies de l'information — Profil normalisé international
TAnnnn — Service de transport en mode connexion sur service de
réseau en mode sans connexion —*

*Partie 13: Spécifications dépendantes de la sous-couche MAC et de la
couche physique pour sous-réseau LAN en anneau à jeton*



Reference number
ISO/IEC ISP 10608-13:1994(E)

ISO/IEC ISP 10608-13:1994(E)

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Printed in Switzerland

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC1. In addition to developing International Standards, ISO/IEC JTC1 has created a Special Group on Functional Standardization for the elaboration of International Standardized Profiles.

An International Standardized Profile is an internationally agreed, harmonized document which identifies a standard or group of standards, together with options and parameters, necessary to accomplish a function or a set of functions.

Draft International Standardized Profiles are circulated to national bodies for voting. Publication as an International Standardized Profile requires approval by at least 75 % of the national bodies casting a vote.

International Standardized Profile ISO/IEC ISP 10608-13 was prepared with the collaboration of

- Asia-Oceania Workshop (AOW);
- European Workshop for Open Systems (EWOS);
- Open Systems Environment Implementors' Workshop (OIW).

ISO/IEC ISP 10608 consists of several parts, under the general title *Information Technology - International Standardized Profile TAnnnn - Connection-mode Transport Service over Connectionless-mode Network Service*:

- *Part 1: General overview and subnetwork-type independent requirements*
- *Part 2: TA51 profile including subnetwork-type dependent requirements for CSMA/CD Local Area Networks (LANs)*
- *Part 4: Definition of profile TA53, operation over a Token Ring LAN subnetwork*
- *Part 5: TA1111/TA1121 profiles including subnetwork-type dependent requirements for X.25 packet switched data networks using virtual calls*
- *Part 6: Definition of profile TA54 for operation over an FDDI LAN subnetwork*
- *Part 13: MAC sublayer and physical layer dependent requirements for a Token Ring LAN subnetwork*
- *Part 14: MAC, PHY and PMD sublayer dependent and Station Management requirements for an FDDI LAN subnetwork*

Annex A forms an integral part of this part of ISO/IEC 10608. Annexes B and C are for information only.

Introduction

This International Standardized Profile (ISP) is defined in accordance with the principles specified by ISO/IEC Technical Report 10000.

The context of Functional Standardization is one area in the overall field of Information Technology (IT) standardization activities, covering base standards, profiles, and registration mechanisms. A profile defines a combination of base standards that collectively perform a specific well-defined IT function. Profiles standardize the use of options and other variations in the base standards, and provide a basis for the development of uniform, internationally recognized system tests.

ISPs are produced not simply to 'legitimize' a particular choice of base standards and options, but to promote real system interoperability. One of the most important roles for an ISP is to serve as the basis for the development (by organizations other than ISO and IEC) of internationally recognized tests. The development and widespread acceptance of tests based on this and other ISPs is crucial to the successful realization of this goal.

ISO/IEC ISP 10608 consists of several parts of which this is part 13. This part of ISO/IEC ISP 10608 specifies the LAN subnetwork dependent requirements for an End System or a Relay System attached to a Token Ring LAN subnetwork.

Other parts specify the subnetwork-type independent requirements (i.e. Transport Layer requirements), the LAN independent requirements for the Network Layer and the LLC Sublayer, the LAN specific requirements for various LAN subnetworks, or define particular End System profiles.

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Information technology - International Standardized Profile TAnnnn - Connection-mode Transport Service over Connectionless-mode Network Service -

Part 13:

MAC sublayer and physical layer dependent requirements for a Token Ring LAN subnetwork

1 Scope

1.1 General

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This part of ISO/IEC ISP 10608 is applicable to End Systems or Relay Systems operating over Token Ring LAN subnetworks in the Open Systems Interconnection (OSI) environment.

This part of ISO/IEC ISP 10608 specifies the subnetwork-type dependent requirements for the MAC Sublayer and the Physical Layer when the End System or Relay System is attached to a Token Ring LAN.

1.2 Position within the Taxonomy

This part of ISO/IEC ISP 10608 relates to any of the transport (Tx, Ux) or relay (Rx) profiles defined in ISO/IEC TR 10000-2, Taxonomy of OSI Profiles, where such profile uses subnetwork type 53 (Token Ring Local Area Network). Specifically, this part of ISO/IEC ISP 10608 provides a common set of requirements that are applicable to Transport Groups TA, TB, TC, TD, TE, UA, and UB, and to Relay Types RA, RB, RC, RD, RE, and RZ whenever subnetwork identifier 53 is associated with the transport group or relay type.

1.3 Scenario

The scope of ISPs derived from this part of ISO/IEC ISP 10608 is limited to the End System or Relay System characteristics using the Medium Interface Connector (MIC) as the reference point. Information relating to suitable media types and installation procedures for a Token Ring trunk cabling system may be found in the document referenced in the informative annex B to this part of ISO/IEC ISP 10608.

The scope of this part of ISO/IEC ISP 10608 and its relation to other documents and ISP parts is illustrated in figure 1.