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SLOVENSKI STANDARD
SIST EN ISP 10608-4:1997

01-december-1997

Information technology - International Standardized Profile TAnnnn - Connection-mode Transport Service over Connectionless-mode Network Service - Part 4: Definition of profile TA53, operation over a Token Ring LAN subnetwork (ISO/IEC ISP 10608-4:1994)

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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 4: Définition du profil TA53, mise en service sur un sous-réseau LAN en anneau a jeton (ISO/IEC ISP 10608-4:1994)

Ta slovenski standard je istoveten z: **EN ISP 10608-4:1996**

ICS:

35.100.05	X^ •|[b) ^Á] [¦aæà} ãz\^ ¦^zãtç^	Multilayer applications

SIST EN ISP 10608-4:1997   **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISP 10608-4

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English version

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REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANA
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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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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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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 10608-4:1994 has been approved by CEN as a European Standard without any modification.

NOTE: EN ISP 10608 - Part 4 replaces ENV 41110:1992 which shall be withdrawn.

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

INTERNATIONAL
STANDARDIZED
PROFILE

ISO/IEC

ISP

10608-4

First edition
1994-05-15

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

Part 4:
Definition of profile TA53, operation over 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 4: Définition du profil TA53, mise en service sur un sous-réseau
LAN en anneau à jeton*

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ISO/IEC ISP 10608-4:1994(E)

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 10608-4 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, 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 ISP 10608.

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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 4. This part of ISO/IEC ISP 10608 defines Profile TA53.

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, and LAN specific requirements. This part of ISO/IEC ISP 10608 references and, where necessary, amends other parts that collectively constitute the TA53 profile.

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Part 4:
Definition of profile TA53, operation over a Token Ring LAN subnetwork

1   Scope

1.1   General

ISO/IEC ISP 10608 is applicable to End Systems concerned with operating in the Open Systems Interconnection (OSI) environment. It specifies a combination of OSI standards which collectively provide the connection-mode Transport Service using the connectionless-mode Network Service.

This part of ISO/IEC ISP 10608 is applicable to the provision of the connection-mode Transport Service in End Systems attached to a Token Ring LAN subnetwork from which the standardized connectionless-mode Network Service can be made available.

1.2   Position within the Taxonomy

The taxonomy of profiles is defined in ISO/IEC TR 10000-2. This part of ISO/IEC ISP 10608 defines the profile:

TA53:   Connection-mode Transport Service over connectionless-mode Network Service over a Token Ring LAN subnetwork

1.3   Scenario

Figure 1 illustrates the End System configurations to which the TA53 profile is applicable.