INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 10609-6

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1992-09-15

Information technology — International Standardized Profiles TB, TC, TD and TE — Connection-mode Transport Service over connection-mode Network Service —

Part 6:
Definition of profiles TC1111/TC1121

Technologies de l'information — Profils normalisés internationaux TB, TC, TD et TE — Service de transport en mode connexion sur service de réseau en mode connexion —

Partie 6: Définition des profils TC1111/TC1121

Reference number
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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 JTC 1. In addition to developing International Standards, ISO/IEC JTC 1 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 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 10609-6 was prepared with the collaboration of

— OSI Asia-Oceania Workshop (AOW);

— European Workshop for Open Systems (EWOS);

— OSI Implementors Workshop (OIW).

ISO/IEC ISP 10609 consists of the following parts, under the general title *Information technology — International Standardized Profiles TB, TC, TD and TE — Connection-mode Transport Service over connection-mode Network Service*:

— *Part 1: Subnetwork-type independent requirements for Group TB*

— *Part 2: Subnetwork-type independent requirements for Group TC*

— *Part 3: Subnetwork-type independent requirements for Group TD*

— *Part 4: Subnetwork-type independent requirements for Group TE*

— *Part 5: Definition of profiles TB1111/TB1121*

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— *Part 6: Definition of profiles TC1111/TC1121*

— *Part 7: Definition of profiles TD1111/TD1121*

— *Part 8: Definition of profiles TE1111/TE1121*

— *Part 9: Subnetwork-type dependent requirements for Network Layer, Data Link Layer and Physical Layer concerning permanent access to a packet switched data network using virtual calls*

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Introduction

This part of ISO/IEC ISP 10609 (International Standardized Profile) is defined within the context of Functional Standardization, in accordance with the principles specified by ISO/IEC TR 10000-1:1990. The context of Functional Standardization is one part of 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 International Standards, and provide a basis for the development of uniform, internationally recognized system tests.

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 and test centres. ISPs are produced not simply to "legitimate" a particular choice of base standards and options, but to promote real system interoperability. 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 10609 consists of several parts, of which this is part 6. ISO/IEC ISP 10609-1, ISO/IEC 10609-2, ISO/IEC 10609-3 and ISO/IEC ISP 10609-4 specify subnetwork-type independent requirements for Group TB, TC, TD and TE profiles, respectively. ISO/IEC ISP 10609-5, ISO/IEC 10609-6, ISO/IEC 10609-7 and ISO/IEC ISP 10609-8 define TB1111/TB1121, TC1111/TB1121, TD1111/TD1121 and TE1111/TE1121, respectively. ISO/IEC ISP 10609-9 specifies subnetwork-type dependent requirements concerning permanent access to packet switched data network using virtual calls.

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Information technology — International Standardized Profiles TB, TC, TD and TE — Connection-mode Transport Service over connection-mode Network Service —

Part 6:
Definition of profiles TC1111/TC1121

1 Scope

1.1 General

This part of ISO/IEC ISP 10609 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 connection-mode Network Service.

This part of ISO/IEC ISP 10609 is applicable to the provision of the connection-mode Transport Service in end systems attached to any type of subnetwork from which the standardized connection-mode Network Service can be made available.

This part of ISO/IEC ISP 10609 specifies the definition of Profiles TC1111/TC1121. The TC1111/TC1121 are profiles in the TC group which uses Transport protocol classes 0 and 2.

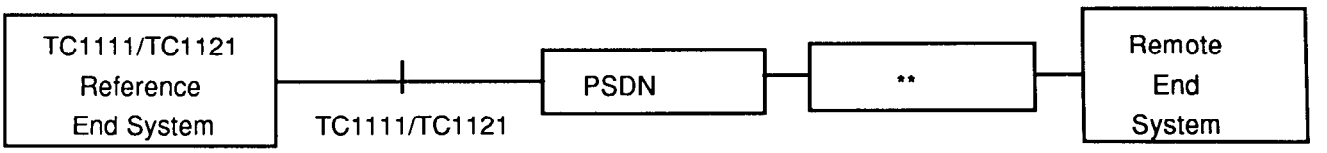
1.2 Position of Profile within the Taxonomy

ISO/IEC ISP 10609 covers the taxonomy elements identified as "TB, TC, TD and TE" in the "Directory of Profiles and ISPs" contained in ISO/IEC TR 10000-2. This part of ISO/IEC ISP 10609 specifies the definition of Profile TC1111/TC1121.

These profiles may be combined with any A-profile at the A/T boundary.

1.3 Scenario

Figure 1 illustrates the end system configurations to which TC1111/TC1112 profiles are applicable.



** Other network equipment
- none
- OSI relays
- other equipment

Figure 1 - Scenario of Applicability of the TC1111/TC1121 Profiles

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This part of ISO/IEC ISP 10609 specifies the required functions from the supporting protocol stack shown in tables 1 and 2.

Table 1 - TC1111 Profile protocol stack for end system

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 8208, ISO 8878
Data Link Layer	ISO 7776
Physical Layer	X.25 dedicated access via PSTN

Table 2 - TC1121 Profile protocol stack for end system

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 8208, ISO 8878
Data Link Layer	ISO 7776
Physical Layer	X.25 dedicated access via Digital Data Circuit

This part of ISO/IEC ISP 10609 does not specify the required functions for relays.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this International Standardized Profile are warned against automatically applying any more recent editions of the documents listed below, since the nature of references made by ISPs to such documents, is that they may be specific to a particular edition. Members of IEC and ISO maintain registers of currently valid International Standards and ISPs, and CCITT maintains published editions of its current Recommendations.

ISO/IEC ISP 10609-1:1992, *Information technology - International Standardized Profile TB, TC, TD and TE - Connection-mode Transport Service over Connection-mode Network Service - Part 1: Subnetwork-type independent requirements for Group TB.*

ISO/IEC ISP 10609-2:1992, *Information technology - International Standardized Profile TB, TC, TD and TE - Connection-mode Transport Service over Connection-mode Network Service - Part 2: Subnetwork-type independent requirements for Group TC.*

ISO/IEC ISP 10609-9:1992, *Information technology - International Standardized Profile TB, TC, TD and TE - Connection-mode Transport Service over Connection-mode Network Service - Part 9: Subnetwork-type dependent requirements for Network Layer, Data Link Layer and Physical Layer concerning permanent access to a packet switched data network using virtual calls.*

3 Definitions

All of the terms used in this part of ISO/IEC ISP 10609 are defined in the referenced base standards (see clause 2).

4 Abbreviations

All of the abbreviations and acronyms used in this part of ISO/IEC ISP 10609 are defined in the referenced base standards (see clause 2).

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5 Profiles TC1111/TC1121

5.1 Subnetwork-type independent requirements

Subnetwork-type independent requirements for Transport Layer are specified in ISO/IEC ISP 10609-2.

5.2 Subnetwork-type dependent requirements

Subnetwork-type dependent requirements for Network Layer, Data Link Layer and Physical Layer are specified in ISO/IEC ISP 10609-9.

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Descriptors: data processing, information interchange, network interconnection, open systems interconnection, data transmission, communication procedure, control procedures, transport layer, protocols, profiles.

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