INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 10614-5

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Information technology — International Standardized Profile RC — X.25 protocol relaying —

Part 5:

Definition of profile RC51.1111, X.25 protocol relaying between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access

Technologies de l'information — Profil normalisé international RC — Transmission du protocole X.25 —

Partie 5: Définition du profil RC51.1111, transmission du protocole X.25 entre sous-réseaux CSMA/CD LAN et PSDNs utilisant des appels virtuels sur un accès permanent en ligne alloué PSTN

Reference number
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for worldwide standardization as a whole. 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 (ISO/IEC JTC 1/SGFS) for the processing 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 10614-5 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 10614 consists of several parts, under the general title *Information technology - International Standardized Profile RC - X.25 protocol relaying:*

- *Part 1: Subnetwork-independent requirements*
- *Part 2: LAN subnetwork-dependent, media-independent requirements*
- *Part 3: CSMA/CD LAN subnetwork-dependent, media-dependent requirements*
- *Part 4: PSDN subnetwork-dependent, media-dependent requirements for virtual calls over a permanent access*
- *Part 5: Definition of profile RC51.1111, X.25 protocol relaying between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access*
- *Part 6: Definition of profile RC51.1121, X.25 protocol relaying between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a digital data circuit / CSDN leased line permanent access*

Annex A forms an integral part of this part of ISO/IEC ISP 10614.

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Information technology — International Standardized Profile RC — X.25 protocol relaying —

Part 5:
Definition of profile RC51.1111, X.25 protocol relaying between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access

1 Scope

1.1 General

ISO/IEC ISP 10614 is applicable to interworking units concerned with the use of ISO/IEC 8208 (X.25 Packet Layer Protocol). An RCp.q relay provides the means for a system on one subnetwork to communicate with a system, or make use of facilities, on another subnetwork.

This part of ISO/IEC ISP 10614 defines the RC51.1111 profile, which is applicable to interworking units operating between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access.

1.2 Position within the taxonomy

The taxonomy of profiles is defined in ISO/IEC TR 10000-2. This part of ISO/IEC ISP 10614 defines the profile:

RC51.1111 X.25 protocol relaying between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access.

1.3 Scenario

Figure 1 illustrates the configuration of systems to which the RC51.1111 profile is applicable. The figure shows two reference points, but implementations of RC51.1111 profiles may include any number of subnetwork attachments, with a reference point corresponding to each.

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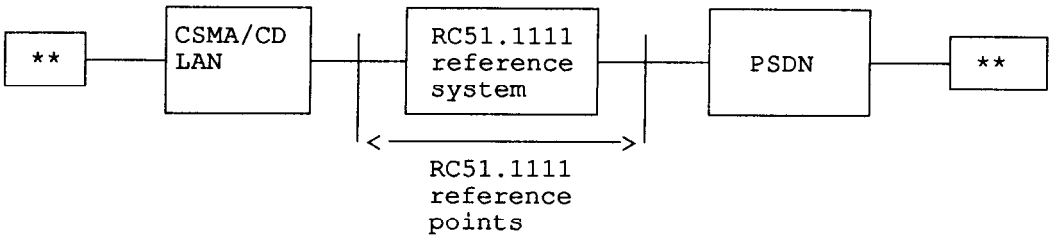

** other compatible network equipment
- OSI relays
- OSI end systems
- other equipment

Figure 1 - Scenario of applicability of the RC51.1111 profile

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 10614. At the time of publication, the editions indicated were valid. All documents are subject to revision, and parties to agreements based on this part of ISO/IEC ISP 10614 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 ITU-T maintains published editions of its current Recommendations.

ISO/IEC TR 10000-1 : 1992, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 1: Framework.*

ISO/IEC TR 10000-2 : 1994, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and taxonomy for OSI Profiles.*

ISO/IEC ISP 10614-1 : 1995, *Information technology - International Standardized Profile RC - X.25 protocol relaying - Part 1: Subnetwork-independent requirements.*

ISO/IEC ISP 10614-2 : 1995, *Information technology - International Standardized Profile RC - X.25 protocol relaying - Part 2: LAN subnetwork-dependent, media-independent requirements.*

ISO/IEC ISP 10614-3 : 1995, *Information technology - International Standardized Profile RC - X.25 protocol relaying - Part 3: CSMA/CD LAN subnetwork-dependent, media-dependent requirements.*

ISO/IEC ISP 10614-4 : 1995, *Information technology - International Standardized Profile RC - X.25 protocol relaying - Part 4: PSDN subnetwork-dependent, media-dependent requirements for virtual calls over a permanent access.*

Additional normative references are found in each of the ISP parts listed above. These additional normative references are base standards used for development of the relevant ISP parts.

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3 Definitions

The terms used in this part of ISO/IEC ISP 10614 are defined in the referenced base standards (see clause 2).

4 Abbreviations

Abbreviations used in this part of ISO/IEC ISP 10614 are defined in the referenced base standards (see clause 2).

5 Requirements

5.1 Static conformance requirements

An implementation conforming to the profile defined in this part of ISO/IEC ISP 10614 shall:

a) support at least one point of attachment to an ISO/IEC 8802-3 CSMA/CD LAN, through which it shall support all the features specified as static conformance requirements of ISO/IEC ISP 10614-1, ISO/IEC ISP 10614-2 and ISO/IEC ISP 10614-3;

b) support at least one point of attachment to a PSDN, using virtual calls over a PSTN leased line permanent access, through which it shall support all the features specified as static conformance requirements of ISO/IEC ISP 10614-1 and ISO/IEC ISP 10614-4;

c) support all the features identified as requirements in the ISPICS requirements list in annex A.

5.2 Dynamic conformance requirements

An implementation conforming to the profile defined in this part of ISO/IEC ISP 10614 shall:

a) carry out the supported functions according to the applicable dynamic conformance requirements of ISO/IEC ISP 10614-1, ISO/IEC ISP 10614-2, ISO/IEC ISP 10614-3 and ISO/IEC ISP 10614-4;

b) behave in accordance with the requirements of the ISPICS requirements list in annex A.

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