

INTERNATIONAL
STANDARDIZED
PROFILE

ISO/IEC
ISP
12067-2

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**Information technology — International
Standardized Profile RB — Relaying the
connection-mode Network Service —**

Part 2:

LAN Subnetwork-dependent
media-independent requirements

*Technologies de l'information — Profil normalisé international RB — Relais
du service de réseau en mode connexion —*

*Partie 2: Prescriptions RLE dépendantes du sous-réseau indépendantes du
milieu*



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Contents	Page
Foreword	iii
Introduction	iv
1 Scope	1
2 Normative references	1
3 Definitions	2
4 Abbreviations	2
5 Requirements	2
5.1 Introduction	2
5.2 Static conformance requirements	2
5.3 Dynamic conformance requirements	3
Annex A Profile Requirements List (normative)	5
A.1 Introduction	5
A.2 Notation and conventions	5
A.3 Profile RL for ISO/IEC 8208	6
A.4 Profile RL for ISO/IEC 8802-2	7
Annex B Recommendations (informative)	8
B.1 Introduction	8
B.2 ISO/IEC 8802-2 recommendations	8

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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 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 12067-2 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 12067 consists of the following parts, under the general title *Information technology — International Standardized Profile RB — Relaying the connection-mode Network Service*:

- *Part 1: Subnetwork-independent requirements*
- *Part 2: LAN Subnetwork-dependent media-independent requirements*
- *Part 3: PSDN Subnetwork-dependent media-dependent requirements for virtual calls over a permanent access*
- *Part 4: Definition of profile RB51.1111, relaying the connection-mode Network Service between CSMA/CD LAN subnetworks and PSDNs using virtual calls over a PSTN leased line permanent access*
- *Part 5: Definition of profile RB51.1121, relaying the connection-mode Network Service 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 12067. Annex B is 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 base 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 test methods. The development and widespread acceptance of tests based on this and other ISPs is crucial to the successful realisation of this goal.

ISO/IEC ISP 12067 consists of several parts of which this is Part 2. ISO/IEC ISP 12067-1 specifies the profile requirements that are subnetwork-independent. There are further parts which specify subnetwork-dependent and media-dependent requirements. In addition, for each individual profile there is a part of ISO/IEC ISP 12067 which identifies the specific requirements of that profile, making reference to appropriate material from part 1 and from the subnetwork-dependent parts.

Information technology — International Standardized Profile RB — Relaying the connection-mode Network Service —

Part 2: LAN Subnetwork-dependent media-independent requirements

1 Scope

ISO/IEC ISP 12067 is applicable to interworking units concerned with operating in the Open Systems Interconnection (OSI) environment. It specifies a combination of OSI base standards that collectively provide a relay function for the connection-mode Network Service.

This part of ISO/IEC ISP 12067 specifies subnetwork-dependent requirements applicable to an interworking unit attached to a LAN and using the ISO 8802-2 LLC type 2 protocol, irrespective of the LAN medium. The operation of an interworking unit may involve relaying from one subnetwork to another, and those subnetworks need not be of the same type. This part of ISO/IEC ISP 12067 applies only to communication over those subnetworks which are LANs using ISO 8802-2 LLC type 2.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 12067. 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 12067 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 8208 : 1995, *Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment*

ISO/IEC 8802-2 : 1994, *Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 2: Logical link control*

ISO/IEC 8881 : 1989, *Information processing systems - Data communications - Use of the X.25 packet level protocol in local area networks*

ISO/IEC 8881 : 1989/Cor.1 : 1991, *Information processing systems - Data communications - Use of the X.25 packet level protocol in local area networks - TECHNICAL CORRIGENDUM 1*

NOTE - This Technical Corrigendum to ISO/IEC 8881 is to apply throughout in this part of ISO/IEC ISP 12067, wherever ISO/IEC 8881 itself is referenced.