

SLOVENSKI STANDARD

SIST EN ISP 11183-2:1997

01-december-1997

Information technology - International Standardized Profiles AOM1n OSI Management - Management Communications - Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications (ISO/IEC ISP 11183-2:1992)

Information technology - International Standardized Profiles AOM1n OSI Management - Management Communications - Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications (ISO/IEC ISP 11183-2:1992)

Informationstechnik - Internationale Norm-Profile für AOM1n OSI-Management - Managementkommunikationsprotokolle - Teil 2: AOM12 - Erweiterte Managementkommunikation (ISO/IEC ISP 11183-2:1992)

Technologies de l'information - Profils normalisés internationaux AOM1n pour la gestion OSI - Gestion de communication - Partie 2: CMSI/ROSE pour AOM12 - Gestion avancée de communication (ISO/IEC ISP 11183-2:1992)

Ta slovenski standard je istoveten z: EN ISP 11183-2:1994

ICS:

35.100.05	Več slojne uporabniške režitve	Multilayer applications
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EUROPEAN STANDARD

EN ISP 11183-2

NORME EUROPÉENNE

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December 1994

ICS 35.100

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English version

**Information technology - International
Standardized Profiles AOM1n OSI Management -
Management Communications - Part 2:
CMISE/ROSE for AOM12 - Enhanced Management
Communications (ISO/IEC ISP 11183-2:1992)**

Technologies de l'information - Profils
normalisés internationaux AOM1n pour la gestion
OSI - Gestion de communication - Partie 2:
CMISE/ROSE pour AOM12 - Gestion avancée de
communication (ISO/IEC ISP 11183-2:1992)

Informationstechnik - Internationale
Norm-Profile für AOM1n OSI-Management -
Managementkommunikationsprotokolle - Teil 2:
AOM12 - Erweiterte Managementkommunikation
(ISO/IEC ISP 11183-2:1992)

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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 1994-12-07. 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.

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CEN

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

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

Foreword

The Technical Board decided to submit the International Standard

Information Technology - International Standard Profiles AOM1n OSI Management - Management Communications - Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications (ISO/IEC ISP 11183-2:1992)

for adoption by the Unique Acceptance Procedure (UAP), in accordance with clause 4.6 of the CEN/CENELEC Internal Regulations, Part 2 of April 1990.

The result of the Unique Acceptance Procedure was positive.

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 June 1995, and conflicting national standards shall be withdrawn at the latest by June 1995.

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, United Kingdom.

Endorsement Notice

The text of the International Standard ISO/IEC ISP 11183-2:1992 was approved by CEN as a European Standard without any modification.

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11183-2

INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC
ISP
11183-2

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Part 2:

CMISE/ROSE for AOM12 — Enhanced Management Communications

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*Technologies de l'information — Profils normalisés internationaux AOM1n
pour la gestion OSI — Gestion de communication —*

*Partie 2: CMISE/ROSE pour AOM12 — Gestion avancée de
communication*



Reference number
ISO/IEC ISP 11183-2:1992(E)

ISO/IEC ISP 11183-2: 1992 (E)

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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 11183-2 was prepared with the collaboration of

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

ISO/IEC ISP 11183 consists of the following parts under the general title *Information technology — International Standardized Profiles AOM1n OSI Management — Management Communications*:

- *Part 1: Specification of ACSE, presentation and session protocols for the use by ROSE and CMISE*
- *Part 2: CMISE/ROSE for AOM12 — Enhanced Management Communications*
- *Part 3: CMISE/ROSE for AOM11 — Basic Management Communications*

Annex A forms an integral part of this part of ISO/IEC ISP 11183.

Introduction

This International Standardized Profile (ISP) is defined within the context of functional standardization, in accordance with the principles specified by ISO/IEC TR 10000, "Framework and Taxonomy of International Standardized Profiles". 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 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 conformance test suites.

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 'legitimize' 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.

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The text for this part of ISO/IEC ISP 11183 was developed in close cooperation among the Network Management Expert Groups of the three International OSI Workshops: NIST Workshop for implementors of OSI (NIST OIW), the European Workshop for Open Systems (EWOS) and the OSI Asia-Oceania Workshop (AOW). This ISP part is harmonized among these three Workshops and it was finally ratified by the Workshops' plenary assemblies.

This part of ISO/IEC ISP 11183 contains one normative annex : annex A, SPICS Requirements List for AOM12.

The expression "International Standardized Profile" is replaced by the abbreviation "ISP" in the following clauses and in the annex.

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Information technology — International Standardized Profiles AOM1n OSI Management — Management Communications —

Part 2: CMISE/ROSE for AOM12 — Enhanced Management Communications

1 Scope

1.1 General

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This part of ISO/IEC ISP 11183 specifies how the OSI Common Management Information Service Element (CMISE) combined with the OSI Remote Operation Service Element (ROSE) shall be used to provide the complete set of operation and notification services to the CMISE-service-users of two end systems. It specifies the CMIP/ROSE protocol features for the definition of the Enhanced Management Communications profile, AOM12. This part of ISO/IEC ISP 11183 can be used together with the part 1 and any connection-mode Transport profile to specify the complete communication requirements for systems management.

This part of ISO/IEC ISP 11183 defines the support level of all the OSI management communication features needed by implementations. It specifies general purpose management communication capabilities by requiring the support of all the CMIP functional units except the extended services functional unit. Other profiles may be defined that provide a subset of capabilities specified here.

The support of the complete set of operation and notification services, and of the corresponding protocol elements does not imply that all these features shall be used in all instances of communications. The selection of the features depends on the needs and dynamic requirements of the CMISE-service-users who may choose between :

- application entity roles,
- functional units,
- operation/notification services,
- optional parameters.

It only implies that a conforming implementation of the CMISE/ROSE services provider does not restrict the capabilities of the CMISE-service-users and complies with the static CMIP requirements specified in ISO/IEC 9596-1 and ISO/IEC 9596-2.

NOTES

- 1 The operations and notifications relate to managed objects. The specification and the support of these managed objects are outside the scope of the profile AOM12.
- 2 This part of ISO/IEC ISP 11183 is based on ISO/IEC 9596-2, (SC21 N-7036, 2 June 1992).

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1.2 CMIP/ROSE PDUs support

An implementation conforming to the profile AOM12 shall be able to support the following PDUs:

ROIV-m-Action	ROER-accessDenied
ROIV-m-Action-Confirmed	ROER-classInstanceConflict
ROIV-m-Create	ROER-complexityLimitation
ROIV-m-Delete	ROER-duplicateManagedObjectInstance
ROIV-m-Get	ROER-getListError
ROIV-m-Set	ROER-invalidArgumentValue
ROIV-m-Set-Confirmed	ROER-invalidAttributeValue
ROIV-m-Cancel-Get	ROER-invalidFilter
ROIV-m-Event Report	ROER-invalidObjectInstance
ROIV-m-Event Report-Confirmed	ROER-invalidScope
	ROER-missingAttributeValue
ROIV-m-Linked-Reply-Action	ROER-mistypedOperation
ROIV-m-Linked-Reply-Delete	ROER-noSuchAction
ROIV-m-Linked-Reply-Get	ROER-noSuchArgument
ROIV-m-Linked-Reply-Set	ROER-noSuchAttribute
	ROER-noSuchEventType
RORS-m-Action-Confirmed	ROER-noSuchInvokeld
RORS-m-Create	ROER-noSuchObjectClass
RORS-m-Delete	ROER-noSuchObjectInstance
RORS-m-Get	ROER-noSuchReferenceObject
RORS-m-Set-Confirmed	ROER-operationCancelled
RORS-m-Cancel-Get	ROER-processingFailure
RORS-m-Event Report-Confirmed	ROER-setListError
	ROER-syncNotSupported
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1.3 CMIP functional units

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The CMIP functional units are defined in ISO/IEC 9595 and ISO/IEC 9596-1. A conforming implementation shall be able to support all of the CMIP functional units except the extended service functional unit as indicated by the table A.7 in annex A of this part of ISO/IEC ISP 11183. However, on an individual association, if requested or accepted by the CMISE-service-user, an implementation shall be able to support the use of any subset of the CMIP functional units that includes the kernel functional unit, with respect to the conditions specified in ISO/IEC 9595. When negotiating CMIP functional units, only those functional units for which both CMISE-service-users indicate support shall be used.

1.4 Position within the Taxonomy

This part of ISO/IEC ISP 11183 is the second part of a multipart ISP for OSI Management, which consists of the following parts :

- Part 1: Specification of ACSE, Presentation and Session Protocols for the use by ROSE and CMISE.*
- Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications.*
- Part 3: CMISE/ROSE for AOM11 - Basic Management Communications.*

The profile which is defined in the part 2 of this ISP is identified in ISO/IEC TR 10000-2 as:

- AOM1n - OSI Management - Management Communications -*
- Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications.*

It may be combined with any A-Profiles AOM2n, Management Functions.

It may be combined with any T-Profiles (see ISO/IEC TR 10000) specifying the OSI connection-mode transport service.

1.5 Scenario

The general model used in the profile AOM12 is the complementary communications interactions between CMISE-service-users within two end Management Information systems as shown in figure below.

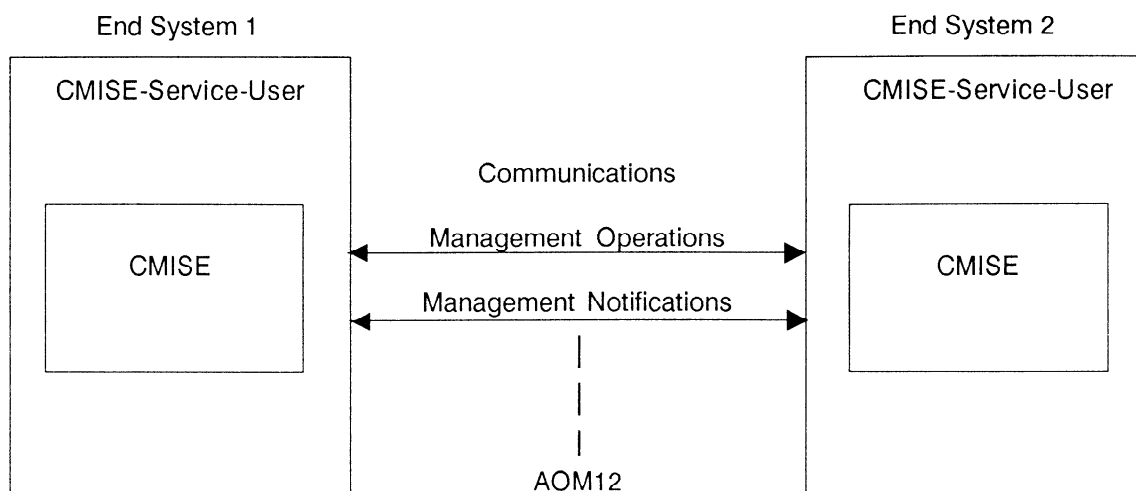


Figure 1 - Communications support for OSI management interactions between two CMISE-service-users

The specifications of the profile AOM12 apply only on the two lines between the end system boxes of the figure.

The common functions required from the supporting protocol stack of ACSE, Presentation and Session are specified in the part 1 of the multipart ISP AOM1n (see also the stack of standards in table 1).

Table 1 - Profile supporting stack
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Application Layer	ISO 9595, 9596-1 ISO 9072-1, 9072-2 ISO 8649, 8650 ISO 8649/Amd.1 ISO 8650/Amd.1
Presentation Layer	ISO 8822, 8823 ISO 8824, 8825
Session Layer	ISO 8326, 8327 ISO 8326/Amd.2 ISO 8327/Amd.2

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 11183. 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 11183 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.