

INTERNATIONAL STANDARDIZED PROFILE

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Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging —

Part 2:

Specification of ROSE, RTSE, ACSE,
Presentation and Session Protocols for use by
MHS

*Technologies de l'information — Profils normalisés internationaux
AMH1n — Systèmes de messagerie — Messagerie commune —*

*Partie 2: Spécification de protocoles de session et de présentation ROSE,
RTSE, ACSE pour l'emploi par MHS*



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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 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 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 10611-2 was prepared with the collaboration of:

- OSI Asia-Oceania Workshop (AOW);
- European Workshop for Open Systems (EWOS) [jointly with the European Telecommunications Standards Institute (ETSI)];
- OSE Implementors' Workshop (OIW).

ISO/IEC ISP 10611 consists of the following parts, under the general title *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging*:

- *Part 1 : MHS Service Support*
- *Part 2 : Specification of ROSE, RTSE, ACSE, Presentation and Session Protocols for use by MHS*
- *Part 3 : AMH11 - Message Transfer (P1)*
- *Part 4 : AMH12 - MTS Access (P3)*
- *Part 5 : AMH13 - MS Access (P7)*

Annexes A, B and C form an integral part of this part of ISO/IEC ISP 10611.

Introduction

This part of International Standardized Profile ISO/IEC ISP 10611 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 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.

One of the most important rôles 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.

The text for this part of ISO/IEC ISP 10611 was developed in close cooperation between the MHS Expert Groups of the three Regional Workshops: the North American OSE Implementors' Workshop (OIW), the European Workshop for Open Systems (EWOS) (jointly with the corresponding expert group of the European Telecommunications Standards Institute - ETSI) and the OSI Asia-Oceania Workshop (AOW). This part of ISO/IEC ISP 10611 is harmonized between these three Workshops and it has been ratified by the plenary assemblies of all three Workshops.

Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging

Part 2 : Specification of ROSE, RTSE, ACSE, Presentation and Session Protocols for use by MHS

1 Scope

1.1 General

This part of ISO/IEC ISP 10611 specifies how the Remote Operations Service Element, the Reliable Transfer Service Element, the Association Control Service Element, the Presentation Layer, and the Session Layer standards shall be used to provide the required OSI upper layer functions for MHS (see also figure 1). These specifications are therefore the common basis for the Common Messaging application functions, as defined in the other parts of ISO/IEC ISP 10611, and for content type-dependent International Standardized Profiles for MHS that will be developed.

1.2 Position within the taxonomy

This part of ISO/IEC ISP 10611 is the second part, as common text, of a multipart ISP identified in ISO/IEC TR 10000-2 as “AMH1, Message Handling Systems - Common Messaging” (see also ISO/IEC TR 10000-1, 8.2 for the definition of multipart ISPs).

This part of ISO/IEC ISP 10611 does not, on its own, specify any profiles.

1.3 Scenario

The model used is one of two end systems running an end-to-end association using either or both of RTSE and ROSE, and the ACSE, Presentation and Session services and protocols (see figure 1).

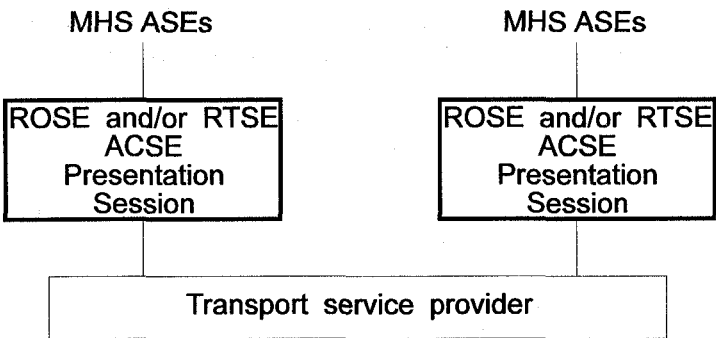


Figure 1 - Model of the supportive layers

The OSI upper layer services and protocols to support the Message Handling Systems functions covered by the AMH1 set of profiles are specified in the set of standards identified in table 1.

Table 1 - AMH profile model

Application Layer	MHS	ISO/IEC 10021-6
	ROSE	ISO/IEC 9072-2
	RTSE	ISO/IEC 9066-2
	ACSE	see ISO/IEC ISP 11188-1
Presentation Layer		see ISO/IEC ISP 11188-1
Session Layer		see ISO/IEC ISP 11188-1

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 10611. 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 10611 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 the Telecommunications Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

NOTE - References in the body of this part of ISO/IEC ISP 10611 to specific clauses of ISO/IEC documents shall be considered to refer also to the corresponding clauses of the equivalent ITU-T Recommendations (as noted below) unless otherwise stated.

ISO/IEC 9066-2: 1989, *Information processing systems - Text Communication - Reliable Transfer - Part 2: Protocol specification.*

ISO/IEC 9072-2: 1989, *Information processing systems - Text Communication - Remote Operations - Part 2: Protocol specification.*

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

ISO/IEC TR 10000-2: 1992, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Taxonomy.*

ISO/IEC 10021-6: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 6: Protocol Specifications. [see also CCITT Recommendation X.419(1992)]*

ISO/IEC ISP 10611-1: 1994, *Information technology - International Standardized Profiles AMH1n - Message Handling Systems - Common Messaging - Part 1: MHS Service Support.*

ISO/IEC ISP 11188-1: ---¹, *Information technology - International Standardized Profiles - Common Upper Layer Requirements - Part 1: Basic connection oriented requirements.*

CCITT Recommendation X.248(1992), *Reliable Transfer Service Element - Protocol Implementation Conformance Statement (PICS) Proforma.*

CCITT Recommendation X.249(1992), *Remote Operations Service Element - Protocol Implementation Conformance Statement (PICS) Proforma.*

¹To be published.