

Information technology — International Standardized Profiles — OSI Management — Management functions —

Part 1: AOM211 — General
management capabilities

ICS 35.100.05

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO/IEC ISP title page, pages ii to iv, pages 1 to 15 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

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PROFILE

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**Information technology — International
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Management — Management
functions —**

Part 1:

AOM211 — General management capabilities

*Technologies de l'information — Profils normalisés internationaux —
Gestion OSI — Fonctions de gestion —*

Partie 1: AOM211 — Capacité globale de gestion



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Descriptors: Data processing, information interchange, network interconnection, open systems interconnection, data transmission, communication procedure, management, systems management, generalities.

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 12060-1 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 12060 consists of the following parts, under the general title *Information technology — International Standardized Profiles — OSI Management — Management functions*:

- *Part 1: AOM211 – General management capabilities;*
- *Part 2: AOM212 – Alarm reporting and state management capabilities;*
- *Part 3: AOM213 – Alarm reporting capabilities;*
- *Part 4: AOM221 – General event report management;*
- *Part 5: AOM231 – General log control.*

Annex A forms an integral part of this part of ISO/IEC ISP 12060.

1 Scope

1.1 General

This part of ISO/IEC ISP 12060 specifies the General management capabilities profile, AOM211, which is applicable to end systems operating in the Open Systems Interconnection (OSI) environment. AOM211 specifies a combination of OSI standards, which collectively provide General management capabilities. These capabilities include the ability to create and delete any managed object instance, retrieve and modify any attribute, report any event, and initiate any action. These capabilities further include a specific set of reporting services for object creation, object deletion, attribute value change, state change, relationship change, and alarm; and attribute modification and retrieval services for a specific set of state and relationship attributes and attribute groups.

AOM211 also specifies use of a combination of standards that collectively provide the Common Management Information Service required by this part of ISO/IEC ISP 12060.

The support of the complete set of operation and notification services and the management attributes does not imply that all these features shall be used in all instances of communications. The selection of the features depends on the requirements of the MIS-users.

The definitions and conventions used in this part of ISO/IEC ISP 12060 are specified in ISO/IEC ISP 12059-0, Common definitions for management function profiles.

1.2 Introduction

AOM211 is applicable in an environment in which end systems are able to take a manager role, an agent role or both. A system acting in the role of a manager is capable of requesting the specified set of operations upon any managed object which is in the system acting in the role of the agent, and receiving notifications which are generated by managed objects in the system acting in the role of the agent.

The specification of the managed objects receiving operations and generating notifications are outside the scope of this profile.

Figure 1 illustrates only one of those configurations, one in which one system is acting in a manager role and a further system is acting in the agent role.

The roles of manager and agent may be determined in advance, for the duration of an association or the duration of a single management interaction. The application context is defined in Systems Management Overview (ISO/IEC 10040).

NOTE Negotiation of functional units is optional.

