INTERNATIONAL STANDARDIZED PROFILE

ISO/IEC ISP 12060-5

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

Part 5:
AOM231 — General log control

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

Partie 5: AOM231 — Commande logarithmique générale

Reference number
ISO/IEC ISP 12060-5:1995(E)

Contents

Page

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 12060-5 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 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.

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

Part 5:

AOM231 - General log control

1 Scope

1.1 General

This part of ISO/IEC ISP 12060 specifies the General log control profile, AOM231, which is applicable to end systems operating in the Open Systems Interconnection (OSI) environment. AOM231 specifies a combination of OSI standards which collectively provide General log control. General log control provides a means for selecting which notifications (generated by managed objects) or incoming event reports are logged within the open system; the criteria for selection are specified in a Log managed object.

AOM231 also provides a means for initiating, terminating, suspending and resuming the logging process as well as modification of the logging selection criteria and retrieving information from the logs. These capabilities are achieved by a set of operations upon, and a set of notifications generated by, the log object.

AOM231 also specifies use of a combination of standards that collectively provide the subset of 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 of the management attributes does not imply that all these features shall be used in all instances of communication. 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

AOM231 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 a Log support managed object which is in the system acting in the role of an agent; the notifications that are logged are also in the system acting in the role of an agent.

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.

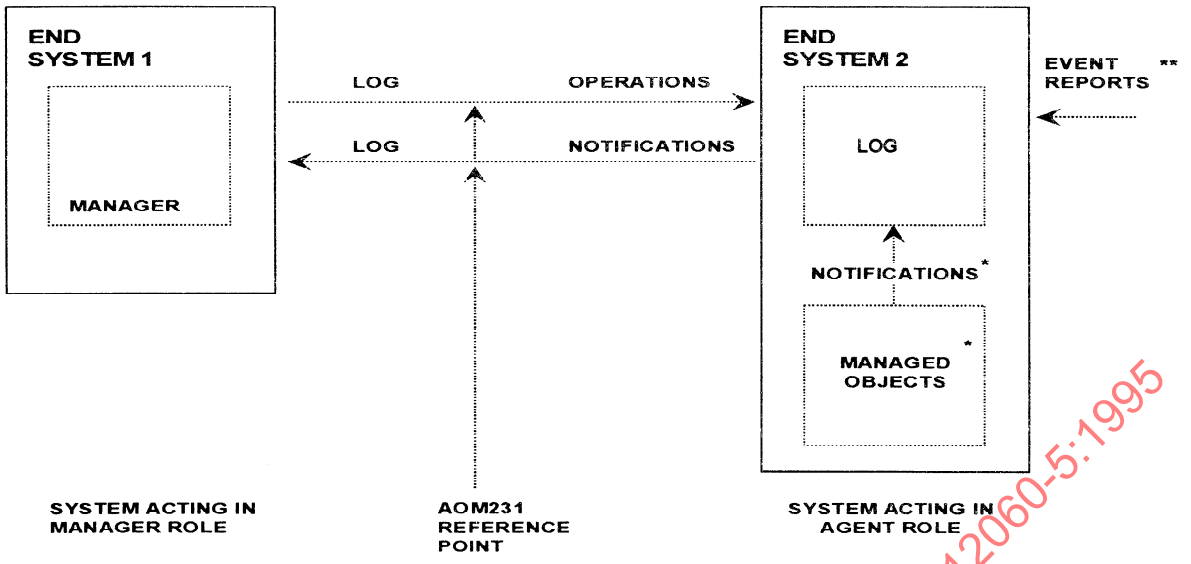

Figure 1 - One scenario of applicability of AOM231 Profile

AOM231 references the following standards:

Application Layer	ISO/IEC 10164-6	Log control function
	ISO/IEC 10164-1	Object management function
	ISO/IEC 10164-2	State management function
	ISO/IEC 10164-4	Alarm reporting function
	ISO/IEC 10165-2	Definition of management information
	ISO/IEC 9595, 9596-1	CMIS and CMIP
	ISO/IEC 9072-1, 2	ROSE
	ISO/IEC ISP 11183-2	CMISE/ROSE for AOM12 - Enhanced management communications
	ISO 8649, 8650	ACSE
	ISO/IEC ISP 11183-1	Specification of ACSE, Presentation and Session
Presentation Layer	ISO 8822, 8823	Presentation
	ISO/IEC 8824, 8825	ASN.1
	ISO/IEC ISP 11183-1	Specification of ACSE, Presentation and Session
Session Layer	ISO 8822, 8823	Session
	ISO/IEC 8326/Add.2	
	ISO/IEC 8327/Add.2	
	ISO/IEC ISP 11183-1	Specification of ACSE, Presentation and Session

AOM231 includes by reference the subset of the Enhanced Management Communications profile (AOM12) that is required to support the above services.

NOTE - Refer to the description of AOM12 for further information about the communications support including specification of the protocol stack.

Claims of conformance to both objects and AOM231 require that all notifications of all objects can be discriminated.

An implementation conforming to AOM231 in the agent role shall support a mechanism to ensure that the notifications emitted by the log can be sent to a managing system.

An end system implementing AOM231 can interwork with an end system implementing the same profile in a complementary role. A system implementing the Enhanced Management Communications profile (AOM12) will be compatible with the communications aspects of AOM231.

1.3 Position within the Taxonomy

AOM231 is identified in ISO/IEC TR 10000-2 as:

AOMnn - OSI Management

AOM2 - Management Functions

AOM23 - Log Control

AOM231 - General Log Control

AOM213 may be combined with any T-Profile (identified in ISO/IEC TR 10000-2) specifying the OSI connection-mode transport service.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC ISP 12060. 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 12060 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.

2.1 Identical CCITT Recommendations | International Standards

- ITU-T Recommendation X.200 (1994) | ISO/IEC 7498-1:1994, *Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model.*
- ITU-T Recommendation X.216 (1994) | ISO/IEC 8822:1994, *Information technology - Open Systems Interconnection - Presentation service definition.*
- ITU-T Recommendation X.226 (1994) | ISO/IEC 8823-1:1994, *Information technology - Open Systems Interconnection - Connection-oriented presentation protocol: Protocol specification.*

  NOTE — ITU-T Rec. X.216 (1994) | ISO/IEC 8822:1994 and ITU-T Rec. X.226 (1994) | ISO/IEC 8823-1:1994 supersede CCITT Rec. X.216 (1988) | ISO 8822:1988 and CCITT Rec. X.226 (1988) | ISO 8823:1988 respectively. However, when this part of ISO/IEC ISP 12060 was under development, the previous editions were valid and this part of ISO/IEC ISP 12060 is therefore based on these editions, which are listed below.

  – CCITT Recommendation X.216 (1988), *Presentation Service Definition for Open Systems Interconnection for CCITT Applications.*

    ISO 8822:1988, *Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition.*

  – CCITT Recommendation X.226 (1988), *Connection oriented presentation protocol specification.*

    ISO 8823:1988, *Information processing systems - Open Systems Interconnection - Connection oriented presentation protocol specification.*

- CCITT Recommendation X.701 (1992) | ISO/IEC 10040:1992, *Information technology - Open Systems Interconnection - Systems management overview.*
- CCITT Recommendation X.712 (1992) | ISO/IEC 9596-2:1993, *Information technology - Open Systems Interconnection - Common management information protocol: Protocol Implementation Conformance Statement (PICS) proforma.*
- CCITT Recommendation X.720 (1992) | ISO/IEC 10165-1:1993, *Information technology - Open Systems Interconnection - Structure of management information: Management information model.*
- CCITT Recommendation X.721 (1992) | ISO/IEC 10165-2:1992, *Information technology - Open Systems Interconnection - Structure of management information: Definition of management information.*

- CCITT Recommendation X.722 (1992) | ISO/IEC 10165-4:1992, *Information technology - Open Systems Interconnection - Structure of management information: Guidelines for the definition of managed objects.*
- CCITT Recommendation X.724 (1993) | ISO/IEC 10165-6:1994, *Information technology - Open Systems Interconnection - Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management.*
- CCITT Recommendation X.730 (1992) | ISO/IEC 10164-1:1993, *Information technology - Open Systems Interconnection - Systems Management: Object management function.*
- CCITT Recommendation X.731 (1992) | ISO/IEC 10164-2:1993, *Information technology - Open Systems Interconnection - Systems Management: State management function.*
- CCITT Recommendation X.733 (1992) | ISO/IEC 10164-4:1992, *Information technology - Open Systems Interconnection - Systems Management: Alarm reporting function.*
- CCITT Recommendation X.734 (1992) | ISO/IEC 10164-5:1993, *Information technology - Open Systems Interconnection - Systems Management: Event report management function.*
- CCITT Recommendation X.735 (1992) | ISO/IEC 10164-6:1993, *Information technology - Open Systems Interconnection - Systems Management: Log control function.*

2.2 Paired CCITT/ITU-T Recommendations | International Standards equivalent in technical content

- CCITT Recommendation X.208 (1988), *Specification of abstract syntax notation one (ASN.1).*

  ISO/IEC 8824:1990, *Information technology - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1).*
- CCITT Recommendation X.209 (1988), *Specification of basic encoding rules for abstract syntax notation one (ASN.1).*

  ISO/IEC 8825:1990, *Information technology - Open Systems Interconnection - Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*
- CCITT Recommendation X.215 (1988), *Session service definition for Open Systems Interconnection for CCITT applications.*

  ISO 8326:1987, *Information processing systems - Open Systems Interconnection - Basic connection oriented session service definition.*
- CCITT Recommendation X.217 (1988), *Association control service definition for Open Systems Interconnection for CCITT applications.*

  ISO 8649:1988, *Information processing systems - Open Systems Interconnection - Service definition for the Association Control Service Element.*
- CCITT Recommendation X.219 (1988), *Remote Operations: Model, notation and service definition.*

  ISO 9072-1:1989, *Information processing systems - Text communication - Remote Operations - Part 1: Model, notation and service definition.*
- CCITT Recommendation X.225 (1988), *Session protocol specification for Open Systems Interconnection for CCITT applications.*

  ISO 8327:1987, *Information processing systems - Open Systems Interconnection - Basic connection oriented session protocol specification.*
- CCITT Recommendation X.227 (1988), *Association control protocol specification definition for Open Systems Interconnection for CCITT applications.*

  ISO 8650:1988, *Information processing systems - Open Systems Interconnection - Protocol specification for the Association Control Service Element.*
- CCITT Recommendation X.229 (1988), *Remote Operations: Protocol specification.*

  ISO 9072-2:1989, *Information processing systems - Text communication - Remote Operations - Part 2: Protocol Specification.*
- CCITT Recommendation X.290 (1992), *OSI conformance testing methodology and framework for protocol Recommendations for CCITT applications - General concepts.*

ISO/IEC 9646-1:1994, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts.*

- CCITT Recommendation X.291 (1992), *OSI conformance testing methodology and framework for protocol Recommendations for CCITT applications - Abstract test suite specification.*

  ISO/IEC 9646-2:1994, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification.*

- ITU-T Recommendation X.296 (presently at stage of draft), *OSI conformance testing methodology and framework: Implementation Conformance Statements.*

  ISO/IEC 9646-7:1995, *Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements.*

- CCITT Recommendation X.700 (1992), *Management Framework Definition for Open Systems Interconnection (OSI) for CCITT applications.*

  ISO/IEC 7498-4:1989, *Information processing systems - Open Systems Interconnection - Basic Reference Model - Part 4: Management framework.*

- CCITT Recommendation X.710 (1991), *Common management information service definition for CCITT applications.*

  ISO/IEC 9595:1991, *Information technology - Open Systems Interconnection - Common management information service definition.*

- CCITT Recommendation X.711 (1991), *Common management information protocol specification for CCITT applications.*

  ISO/IEC 9596-1:1991, *Information technology - Open Systems Interconnection - Common management information protocol - Part 1: Specification.*

2.3 Additional references

- ISO 8326/Add.2:[2)], *Information processing systems - Open Systems Interconnection - Basic connection oriented session service definition - Addendum 2: Unlimited user data.*
- ISO 8327/Add.2:[2)], *Information processing systems - Open Systems Interconnection - Basic connection oriented session protocol specification - Addendum 2: Unlimited user data.*
- ISO/IEC 8327-2:[3)], *Information technology - Open Systems Interconnection - Basic connection oriented session protocol specification - Part 2: Protocol Implementation Conformance Statement (PICS) proforma.*
- ISO/IEC 8650-2:1995, *Information technology - Open Systems Interconnection - Protocol specification for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma.*
- ISO/IEC 8823-2:[3)], *Information technology - Open Systems Interconnection - Connection-oriented presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma.*
- ISO/IEC 9545:1994, *Information technology - Open Systems Interconnection - Application Layer structure.*
- ISO/IEC TR 10000-1:1990[4)]:, *Information technology - Framework and taxonomy of International Standardized Profiles - Part 1: Framework.*
- ISO/IEC TR 10000-2:1994[4)], *Information technology - Framework and taxonomy of International Standardized Profiles - Part 2: Principles and Taxonomy for OSI Profiles.*
- ISO/IEC ISP 11183-1:1992, *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.*

2) To be incorporated in a new edition of the base standard.

3) To be published.

4) Under revision.

- 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 12059-0:1995, *Information technology - International Standardized Profiles - OSI Management - Common information for management functions - Part 0: Common definitions for management function profiles.*
- ISO/IEC ISP 12059-1:1995, *Information technology - International Standardized Profiles - OSI Management - Common information for management functions - Part 1: Object management.*
- ISO/IEC ISP 12059-2:1995, *Information technology - International Standardized Profiles - OSI Management - Common information for management functions - Part 2: State management.*
- ISO/IEC ISP 12059-4:1995, *Information technology - International Standardized Profiles - OSI Management - Common information for management functions - Part 4: Alarm reporting.*
- ISO/IEC ISP 12059-6:1995, *Information technology - International Standardized Profiles - OSI Management - Common information for management functions - Part 6: Log control.*

3 Definitions

The terms used in this part of ISO/IEC ISP 12060 are defined in the referenced base standards.

4 Abbreviations

The abbreviations used in this part of ISO/IEC ISP 12060 are specified in ISO/IEC ISP 12059-0.

5 Conventions

The common conventions used in this part of ISO/IEC ISP 12060 are specified in ISO/IEC ISP 12059-0.

The following conditions are specified in the referenced base standard and used in this part of ISO/IEC ISP 12060:

1A/cn See CCITT Rec. X.730 | ISO/IEC 10164-1, Annex A, condition cn

2A/cn See CCITT Rec. X.731 | ISO/IEC 10164-2, Annex A, condition cn

4A/cn See CCITT Rec. X.733 | ISO/IEC 10164-4, Annex A, condition cn

6A/cn See CCITT Rec. X.735 | ISO/IEC 10164-6, Annex A, condition cn

6B/cn See CCITT Rec. X.735 | ISO/IEC 10164-6, Annex B, condition cn

6C/cn See CCITT Rec. X.735 | ISO/IEC 10164-6, Annex C, condition cn

6 Conformance requirements

This part of ISO/IEC ISP 12060 states the general requirements for interworking between two management systems with general log control capabilities. A claim of conformance to AOM231 is a claim that all mandatory requirements in the relevant base standards are satisified, and that all the requirements in the following clauses and in Annex A are satisfied.

AOM231 requires conformance to the following system management standards:

CCITT Rec. X.730 | ISO/IEC 10164-1, Object management function

CCITT Rec. X.731 | ISO/IEC 10164-2, State management function

CCITT Rec. X.733 | ISO/IEC 10164-4, Alarm reporting function

CCITT Rec. X.735 | ISO/IEC 10164-6, Log control function

The detailed requirements for the support of the above base standards are specified in ISO/IEC ISP 12059 parts 1, 2, 4 and 6.

The implementation shall support the requirements specified in ISO/IEC ISP 11183-1 for the ACSE, Presentation and Session layers, and part of ISO/IEC ISP 11183-2 for CMIP and ROSE, as specified by this profile.

An implementation acting in the agent role shall accept a value of "actual class" for "object class" parameter as defined in subclause 6.4.5 of CCITT Rec. X.722 ISO/IEC 10165-4 .

The common requirements for this profile are specified in ISO/IEC ISP 12059-0. The specific requirements are specified in Annex A.

Implementations conforming to AOM231 shall implement all the mandatory features. The supplier of an implementation claiming conformance to AOM231 shall make available a statement of support or non-support of each optional function, feature or parameter identified in this part of ISO/IEC ISP 12060.

For logging of local notifications, a system conforming to AOM231 shall support the logging of all the notifications of all the managed object classes that it claims to conform to.

For logging of external notifications, a system conforming to AOM231 shall support logging of all the notifications specified in the other management function profiles that it claims to conform to as a manager (i.e., receive the notifications).

The ability of a system to receive event reports is the subject of other profiles (AOM21n). If a system is capable of receiving event reports then those event reports are within the scope of AOM231, and should pass against the logging discriminator.

AOM231 requires support of the Log control function as specified in ISO/IEC 10164-6. As a result this requires support for the protocol elements needed to provide the PT-GET, PT-SET, PT-CREATE, PT-DELETE, object creation reporting, object deletion reporting, attribute value change reporting and state change reporting services; this requires support of the protocol for the corresponding services and the Log MO, from the relevant standards shown in the MCS.

AOM231 requires the support of all CMISE functional units except the extended services functional unit.

An implementation conforming to AOM231 in the agent role shall support a mechanism to ensure that the managed system can send notifications to a managing system.

AOM231 specifies minimum levels of log complexity considering the aspects noted in Annex C to ISO/IEC 10164-6.

A claim to conformance of AOM231 must include a statement of notifications (beyond those of the Log itself) on which the implemention can discriminate. This statement may be given by: 1) a list of objects supported, 2) a list of standardised notifications, 3) a list of parameters filtered, 4) or other statement of more general capabilities.

Log preprocessing can supply values of optional parameters defined in the functions (e.g., correlated notifications) in addition to those supplied by the managed object, but cannot modify or remove parameters set by the managed objects.

To assist in migration and compatibility, it is recommended that management systems be capable of tolerating the arrival of unexpected information, such as notifications and attribute values.

If the implementation claims support for the DMI:log-system name binding, then AOM231 requires conformance to the DMI:system object or any of its subclasses.

The requirement to conform to any other system managed object class is outside the scope of AOM231.

6.1 MAPDU support

An implementation conforming to AOM231 shall support the following MAPDUs for each of the management roles supported. The detailed requirements for each of the MAPDUs are specified in Annex A.

6.1.1 Manager role requirements

An implcmentation suppporting the manager role shall be able to receive the following set of MAPDUs and generate, when required, a response:

objectCreation

objectDeletion

attributeValueChange

statcChange

processingErrorAlarm

6.1.2 Agent role requirements

An implementation supporting the agent role shall be able to send the following MAPDUs and receive the corresponding responses:

objectCreation

objectDeletion

attributeValueChange

stateChange

processingErrorAlarm

6.2 Systems management functional units

The SMASE functional units for monitor log and log control are defined in CCITT Rec. X.735 | ISO/IEC 10164-6, and the requirements for support are defined in Table A.4. The support of these functional units requires the implementation of all the capabilities included in the functional unit. The negotiation of functional units is optional. An implementation is required to support at least one role.

Annex A

ISPICS Requirements List (IPRL) and profile specific ICS proforma for AOM231

(This Annex forms an integral part of ISO/IEC ISP 12060-5)

The following clarifies, where necessary, the column headings used in the IPRLs in this annex.

Index:	The row index of this item in the referenced ICS proforma.
Constraints and values:	Base standard constraints or any additional constraints defined in the common profile or this profile for this item.
Base Std:	The status value of the item as defined in the base standard.
Common Profile:	Requirements as defined for this item in the referenced common profile.
AOM231 Profile:	AOM231 profile requirements defined for this item.

The notation used in this annex is identified in clause 5. The parameter names are those which are specified in CCITT Rec. X.735 | ISO/IEC 10164-6 and CCITT Rec. X.721 | ISO/IEC 10165-2.

A.1 Management conformance summary

The following tables identify part of the information that the supplier of the implementation shall provide in the final management conformance summary. The supplier shall indicate claims of conformance to the following Recommendations | International Standards.

NOTE - In tables A.1, A.2 and A.3, the "Base Std." column and the "Profile" column are used to indicate whether the supplier of the implementation is required to complete the referenced tables or referenced items. Conformance requirements are as specified in the referenced tables or referenced items, and are not changed by the value in the MCS "Base Std." column and "Profile" column.

Table A.1 is based on Table A.2 of CCITT Rec. X.735 | ISO/IEC 10164-6 DAM 1.

Table A.1 — PICS support summary

Index	Identification of the document including the PICS proforma	Table numbers of PICS proforma	Description	Constraints and values	Base Std.	AOM231 Profile	Table numbers of PICS	Additional information
1	CCITT Rec. X.730 | ISO/IEC 10164-1	Annex B all MAPDU tables	-	-	m	m		Specified in ISO/IEC ISP 12059-1
2	CCITT Rec. X731 | ISO/IEC 10164-2	Annex B all MAPDU tables	stateChange MAPDU	-	m	m		Specified in ISO/IEC ISP 12059-2
3	CCITT Rec. X735 | ISO/IEC 10164-6	Annex B	-	-	m	m		Specified in ISO/IEC ISP 12059-6
4	CCITT Rec. X.733 | ISO/IEC 10164-4	Annex B MAPDU tables	processError Alarm MAPDU	-	m	m		Specified in ISO/IEC ISP 12059-4
5	CCITT Rec. X.730 | ISO/IEC 10164-1	Annex E all tables	SM application context	-	m	m		Specified in ISO/IEC ISP 12059-0
6	CCITT Rec. X.712 | ISO/IEC 9596-2	All tables	CMIP		o	m		Specified in ISO/IEC ISP 11183-2
7	ISO/IEC 8650-2	All tables	ACSE		o	m		Specified in ISO/IEC ISP 11183-1
8	ISO/IEC 8823-2	All tables	Presentation		o	m		Specified in ISO/IEC ISP 11183-1
9	ISO/IEC 8327-2	All tables	Session		o	m		Specified in ISO/IEC ISP 11183-1

Table A.2 is based on Table A.3 of CCITT Rec. X.735 | ISO/IEC 10164-6 DAM 1.

Table A.2 — MOCS support summary

Index	Identification of the document including the MOCS proforma	Table numbers of MOCS proforma	Description	Constraints and values	Base Std.	AOM231 Profile	Table numbers of MOCS	Additional information
1	CCITT Rec. X.733 | ISO/IEC 10164-4	Annex C all tables	alarmRecord	-	6A/c1	m		Specified in ISO/IEC ISP 12059-4
2	CCITT Rec. X.730 | ISO/IEC 10164-1	Annex C all tables	objectCreate, objectDelete and attribute ValueChange records	-	6A/c1	m		Specified in ISO/IEC ISP 12059-1
3	CCITT Rec. X.731 | ISO/IEC 10164-2	Annex C all tables	stateChange Record	-	6A/c1	m		Specified in ISO/IEC ISP 12059-2
4	CCITT Rec. X.735 | ISO/IEC 10164-6	Annex C all tables	log and event Log record	-	m	m		Specified in ISO/IEC ISP 12059-6

Table A.3 is based on Table A.4 of CCITT Rec. X.735 | ISO/IEC 10164-6 DAM 1.

Table A.3 — MRCS support summary

Index	Identification of the document including the MRCS proforma	Table numbers of MRCS proforma	Description	Constraints and values	Base Std.	AOM231 Profile	Table numbers of MRCS	Additional information
1	CCITT Rec. X.735 | ISO/IEC 10164-6	Annex D all tables	logRecord-Log and log-System name bindings	-	6A/c1	m		Specified in ISO/IEC ISP 12059-6

A.2 Management capability support

An implementation conforming to AOM231 shall indicate which systems management functional units are supported. The functional units require the support of a set of MAPDUs that are carried using CMIP PDUs. The negotiation of functional units is optional.

Table A.4 is based on Table B.2 of CCITT Rec. X.735 | ISO/IEC 10164-6 DAM 1.

Table A.4 – Management capability

Index	Functional unit name	Base Std.	AOM231 Profile	MAPDUs	CMIS service primitives	Additional information
1	monitor log	6B/c1	m	-	M-GET	
2	log control	6B/c1	m	objectCreation objectDeletion attributeValueChange stateChange processingErrorAlarm	M-EVENT-REPORT	

A.2.1 MAPDU support

The detailed information of the MAPDUs for which support is required is specified in ISO/IEC ISP 12059-5.

A.3 CMIP PDU requirements

An implementation conforming to AOM231 shall support the CMIP PDUs associated with the following CMIS services. The list of CMIP PDUs associated with each service is specified in ISO/IEC ISP 11183-2.

Table A.5 - CMIP PDU requirements

Index	CMIS Service Primitive	ISO/IEC ISP11183-2 Table Reference		Changes from profile columns in ISO/IEC ISP 11183-2 tables
		Manager	Agent	
1	M-CANCEL-GET	Table A.17	Table A.18	none
2	M-CREATE	Table A.19	Table A.20	none
3	M-DELETE	Table A.21	Table A.22	none
4	M-EVENT-REPORT	Table A.24	Table A.23	none
5	M-GET	Table A.25	Table A.26	none
6	M-SET	Table A.27	Table A.28	none

A.4 Managed object support

A.4.1 Introduction

AOM231 includes conditional support for managed object classes, as specified in Table A.6.

Table A.6 - Support for Instances of Object Classes

Index	Managed object class	Base Std.		AOM231 Profile	
		Manager Role	Agent Role	Manager Role	Agent Role
1	Log	c2	c2	c2	c2
2	Attribute value change record	c2	c2	c2	c2
3	Object creation record	c2	c2	c2	c2
4	Object deletion record	c2	c2	c2	c2
5	Alarm record	c2	c2	c2	c2
6	State change record	c2	c2	c2	c2

The supplier shall list, in Table A.6, all of the log record subclasses which they are capable of logging. For standard event log record subclasses, the MOCS requirements are specified in ISO/IEC ISP 12059 parts associated with the Systems Management function standard which defines the event report.

Support in the manager role requires support for all packages of the log, the log record subclasses implemented, and those of all their superclasses.

NOTE: Support is required in at least one role for each standard class. Indication of support in the above table implies support as defined in AOM231, for those packages defined for the managed object class, including the package support defined for all of its superclasses. Subclass support is outside the scope of AOM231.