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AMENDMENT 1
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Information technology — Open Systems Interconnection — Systems Management: Summarization Function

AMENDMENT 1: Implementation conformance statement proformas

Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Gestion-systèmes: Fonction de résumé

AMENDEMENT 1: Proformes de déclaration de conformité de mise en œuvre

Reference number
ISO/IEC 10164-13:1995/Amd.1:1997(E)

Contents

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. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Amendment 1 to International Standard ISO/IEC 10164-13:1995 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 21, *Open systems interconnection, data management and open distributed processing*, in collaboration with ITU-T. The identical text is published as ITU-T Rec. X.738/Amd.1.

Introduction

ITU-T Rec. X.738 | ISO/IEC 10164-13 provides many possible options for implementors to choose from in the development of a product. This means that an Operations System (OS) product from one vendor needing to interwork with an OS product from another vendor must be developed to some common and explicit agreement both developers use concerning the actual options to be developed in their software products for X.738-based messages. This amendment provides a means to specify message options in such a way that the later documentation of actual options chosen for a product can be more explicit. The result is that the time to carry out interoperability tests between an OS from one vendor and an OS from another vendor may be reduced because product developers can be provided with more explicit message specification.

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SYSTEMS MANAGEMENT: SUMMARIZATION FUNCTION

AMENDMENT 1
Implementation conformance statement proformas

1) Subclause 2.1

Add the following reference:

"– ITU-T 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* ."

2) Subclause 2.2

Add the following references:

"– 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 (1995), *OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements.*

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

3) Subclause 3.3

Insert the following terms:

"e) Managed Object Conformance Statement (MOCS);

f) Management Information Conformance Statement (MICS);

k) MICS proforma;

l) MOCS proforma."

Delete items c): "dependent conformance *and d):* "general conformance".

Relabel the list items and re-arrange the list in alphabetic order.

4) Subclause 3.7

Add the following terms:

"b) PICS proforma;

c) protocol implementation conformance statement."

Replace the dash "–" *of the term* "alarm" *with* "a)".

5) Subclause 3.9

Add the following new subclause, immediately after 3.8:

"3.9 Implementation conformance statement proforma definitions

This Recommendation | International Standard makes use of the following terms defined in ITU-T Rec. X.724 | ISO/IEC 10165-6:

a) Management Conformance Summary (MCS);

b) Managed Relationship Conformance Statement (MRCS);

c) MCS proforma;

d) MRCS proforma."

The subclauses which follow the new subclause 3.9 should be renumbered accordingly.

6) Clause 4

Insert the following abbreviations in the existing list of abbreviations, by alphabetical order:

"ICS Implementation Conformance Statement

MCS Management Conformance Summary

MICS Management Information Conformance Statement

MIDS Management Information Definition Statement

MRCS Managed Relationship Conformance Statement"

7) Clause 13

Replace clause 13 by the following:

"13 Conformance

Implementations claiming to conform to this Recommendation | International Standard shall comply with the conformance requirements as defined in the following subclauses.

13.1 Static conformance

The implementation shall conform to the requirements of this Recommendation | International Standard in the manager role, the agent role, or both roles. A claim of conformance to at least one role shall be made in Table B.1.

If a claim of conformance is made for support in the manager role, the implementation shall support at least one management operation or notification or action of the managed objects specified by this Recommendation | International Standard. The conformance requirements in the manager role for those management operations and notifications and actions are identified in Table B.3 and further tables referenced by Annex B.

If a claim of conformance is made for support in the agent role, the implementation shall support one or more instances of the managed object classes identified in Table B.4 and further tables referenced by Annex B.

The implementation shall support the transfer syntax derived from the encoding rules specified in CCITT Rec. X.209 | ISO/IEC 8825 named {joint-iso-ccitt asn1(1) basicEncoding(1)} for the abstract data types referenced by the definitions for which support is claimed.

13.2 Dynamic conformance

Implementations claiming to conform to this Recommendation | International Standard shall support the elements of procedure and definitions of semantics corresponding to the definitions for which support is claimed.

13.3 Management implementation conformance statement requirements

Any MCS proforma, MICS proforma, MOCS proforma, and MRCS proforma which conforms to this Recommendation | International Standard shall be technically identical to the proformas specified in Annex B through Annex O preserving table numbering and the index numbers of items, and differing only in pagination and page headers.

The supplier of an implementation which is claimed to conform to this Recommendation | International Standard shall complete a copy of the Management Conformance Summary (MCS) provided in Annex B as part of the conformance requirements together with any other ICS proformas referenced as applicable from that MCS. A ICS which conforms to this Recommendation | International Standard shall:

- describe an implementation which conforms to this Recommendation | International Standard;
- have been completed in accordance with the instructions for completion given in ITU-T Rec. X.724 | ISO/IEC 10165-6;
- include the information necessary to uniquely identify both the supplier and the implementation.

Claims of conformance to the management information defined in this Recommendation | International Standard in managed object classes defined elsewhere shall include the requirements of the MIDS proforma in the MOCS proforma for the managed object class."

8) New annexes

Add the following new annexes immediately after Annex A:

Annex B

MCS proforma[1)]

(This annex forms an integral part of this Recommendation | International Standard)

B.1 Introduction

B.1.1 Purpose and structure

The Management Conformance Summary (MCS) is a statement by a supplier that identifies an implementation and provides information on whether the implementation claims conformance to any of the listed set of documents that specify conformance requirements to OSI management.

The MCS proforma is a document, in the form of a questionnaire that when completed by the supplier of an implementation becomes the MCS.

B.1.2 Instructions for completing the MCS proforma to produce an MCS[2)]

The supplier of the implementation shall enter an explicit statement in each of the boxes provided. Specific instruction is provided in the text which precedes each table.

B.1.3 Symbols, abbreviations and terms

For all annexes of this Recommendation | International Standard, the following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 | ISO/IEC 9646-7 are used for the Status column:

- m Mandatory;
- o Optional;
- c Conditional;
- x Prohibited;
- – Not applicable or out of scope.

NOTES

1 'c', 'm', and 'o' are prefixed by a 'c:' when nested under a conditional or optional item of the same table.

2 'o' may be suffixed by '.N' (where N is a unique number) for mutually exclusive or selectable options among a set of status values. Support of at least one of the choices (from the items with the same values of N) is required.

For all annexes of this Recommendation | International Standard, the following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 | ISO/IEC 9646-7 are used for the Support column:

- Y Implemented;
- N Not implemented;
- – No answer required;
- Ig The item is ignored (i.e. processed syntactically but not semantically).

B.1.4 Table format

Some of the tables in this Recommendation | International Standard have been split because the information is too wide to fit on the page. Where this occurs, the index number of the first block of columns are the index numbers of the corresponding rows of the remaining blocks of columns. A complete table reconstructed from the constituent parts should have the following layout:

Index	First block of columns	Second block of columns	Etc.

In this Recommendation | International Standard the constituent parts of the table appear consecutively, starting with the first block of columns.

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1) **Copyright release for MCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MCS.

2) Instructions for completing the MCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

When a table with sub-rows is too wide to fit on a page, the continuation tables(s) have been constructed with index numbers identical to the index numbers in the corresponding rows of the first table, and with sub-index numbers corresponding to the sub-rows within each indexed row. For example, if Table X.1 has 2 rows and the continuation of Table X.1 has 2 sub-rows for each row, the tables are presented as follows.

Table X.1 – Title

					Support		
Index	A	B	C	D	E	F	G
1	a	b	–				
2	a	b	–				

Table X.1 *(continued)* – **Title**

Index	Subindex	H	I	J	K	L
1	1.1	h	i	j		
	1.2	h	i	j		
2	2.1	h	i	j		
	2.2	h	i	j		

A complete table reconstructed from the constituent parts should have the following layout:

					Support							
Index	A	B	C	D	E	F	G	Subindex	H	I	J	K	L
1	a	b	–					1.1	h	i	j		
								1.2	h	i	j		
2	a	b	–					2.1	h	i	j		
								2.2	h	i	j		

References made to cells within tables shall be interpreted as references within reconstructed tabled. In the example, above, the reference X.1/1d corresponds to the blank cell in the column G for row with Index 1, and X.1/1.2b corresponds to the blank cell in column L for row with Sub-index 1.2.

B.2 Identification of the implementation

B.2.1 Date of statement

The supplier of the implementation shall enter the date of this statement in the box below. Use the format DD-MM-YYYY.

Date of statement

B.2.2 Identification of the implementation

The supplier of the implementation shall enter information necessary to uniquely identify the implementation and the system(s) in which it may reside, in the box below.

B.2.3 Contact

The supplier of the implementation shall provide information on whom to contact if there are any queries concerning the content of the MCS, in the box below.

B.3 Identification of the Recommendation | International Standard in which the management information is defined

The supplier of the implementation shall enter the title, reference number and date of the publication of the Recommendation | International Standard which specifies the management information to which conformance is claimed, in the box below.

Recommendation | International Standard to which conformance is claimed

B.3.1 Technical corrigenda implemented

The supplier of the implementation shall enter the reference numbers of implemented technical corrigenda which modify the identified Recommendation | International Standard, in the box below.

B.3.2 Amendments implemented

The supplier of the implementation shall state the titles and reference numbers of implemented amendments to the identified Recommendation | International Standard, in the box below.

B.4 Management conformance summary

The supplier of implementation shall state the capabilities and features supported and provide summary of conformance claims to Recommendations | International Standards using the tables in this annex.

The supplier of the implementation shall specify the roles that are supported, in Table B.1.

Table B.1 – Roles

Index	Roles supported	Status	Support	Additional information
1	Manager role support	o.1		
2	Agent role support	o.1		

The supplier of the implementation shall specify support for the systems management functional units in Table B.2.

Table B.2 – Systems management functional units

		Manager		Agent		
Index	Capability	Status	Support	Status	Support	Additional information
1	Scan stimulation functional unit	c1		c2		
2	Summarization event reporting functional unit	c1		c2		
c1: if B.1/1a then o else – c2: if B.1/2a then o else –						

The supplier of the implementation shall specify support for management information in the manager role, in Table B.3.

Table B.3 – Manager role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Operations on managed objects	c3		
2	Buffered scan report notification	c4		
3	Scan report notification	c4		
4	Statistical report notification	c4		
5	Activate dynamic simple scan report action	c5		
6	Activate scan report action	c5		
7	Activate statistical report action	c5		
8	Report buffer action	c5		
9	Object creation notification from at least one summarization managed objects	c3		
10	Object deletion notification from at least one summarization managed objects	c3		
11	Attribute value change notification from at least summarization managed objects	c3		
12	State change notification from at least one summarization managed objects	c3		
c3: if B.1/1a then o.2 else – c4: if B.2/2a then o.3 else (if B.1/1a then o.2 else –) c5: if B.2/1a then o.4 else (if B.1/1a then o.2 else –)				

The supplier of the implementation shall specify support for management information in the agent role, in Table B.4.

Table B.4 – Agent role minimum conformance requirement

Index	Item	Status	Support	Additional information
1	Heterogeneous scanner managed object	c6		
2	Buffered scanner managed object	c6		
3	Simple scanner managed object	c6		
4	Mean scanner managed object	c6		
5	Mean variance scanner managed object	c6		
6	Min max scanner managed object	c6		
7	Percentile scanner managed object	c6		
8	Dynamic simple scanner managed object	c6		
c6: if B.1/2a then o.5 else –				

Table B.5 – Logging of event records

Index		Status	Support	Additional information
1	Does the implementation support logging of event records in agent role?	c7		
c7: if B.1/2a then o else –				

NOTE 1 – Conformance to this Recommendation | International Standard does not require conformance to CCITT Rec. X.735 | ISO/IEC 10164-6.

The supplier of the implementation shall provide information on claims of conformance to any of the Recommendation | International Standards summarized in Tables B.6 to B.9. For each Recommendation | International Standard that the supplier of the implementation claims conformance to, the corresponding conformance statement(s) shall be completed, or referenced by, the MCS. The supplier of the implementation shall complete the Support, Table numbers and Additional information columns.

In Tables B.6 to B.9, the Status column is 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 of the MCS Status column. Similarly, the Support column is used by the supplier of the implementation to indicate completion of the referenced tables or referenced items.

NOTE 2 – Conformance to the MAPDUs defined in this Recommendation | International Standard can be claimed by completing the corresponding tables in the MICS and MOCS annexes of the referenced Recommendation | International Standard.

Table B.6 – PICS support summary

Index	Identification of the document that includes the PICS proforma	Table numbers of PICS proforma	Description	Constraints and values	Status	Support	Table numbers of PICS	Additional information
1	CCITT Rec. X.730 | ISO/IEC 10164-1	Annex E all tables	Systems management application context	–	o[a)]			
a) The supplier of implementation shall indicate the application contexts supported.								

Table B.7 – MOCS support summary

Index	Identification of the document that includes the MOCS proforma	Table numbers of MOCS proforma	Description	Constraints and values	Status	Support	Table number of MOCS	Additional information
1	CCITT Rec. X.730 | ISO/IEC 10164-1	Annex C all tables	objectCreation objectDeletion attributeValue Change records	–	c8			
2	CCITT Rec. X.731 | ISO/IEC 10164-2	Annex C all tables	stateChange Record	–	c8			
3	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex D all tables	heterogeneous Scanner	–	c9			
4	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex E all tables	bufferedScanner	–	c10			
5	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex F all tables	simpleScanner	–	c11			
6	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex G all tables	meanScanner	–	c12			
7	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex H all tables	meanVariance Scanner	–	c13			
8	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex I all tables	minMaxScanner	–	c14			
9	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex J all tables	percentileScanner	–	c15			
10	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex K all tables	dynamicSimple Scanner	–	c16			
11	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex L all tables	bufferedScan ReportRecord	–	c17			
12	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex M all tables	scanReportRecord	–	c18			
13	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex N all tables	statisticalReport Record	–	c19			

c8: if (B.4/1a or B.4/2a or B.4/3a or B.4/4a or B.4/5a or B.4/6a or B.4/7a) and B.5/1a then m else –

c9: if B.4/1a then m else –

c10: if B.4/2a then m else –

c11: if B.4/3a then m else –

c12: if B.4/4a then m else –

c13: if B.4/5a then m else –

c14: if B.4/6a then m else –

c15: if B.4/7a then m else –

c16: if B.4/8a then m else –

c17: if B.1/2a and B.4/2a and B.5/1a then m else –

c18: if B.1/2a and (B.4/1a or B.4/3a) and B.5/1a then m else –

c19: if B.1/2a and (B.4/4a or B.4/5a or B.4/6a or B.4/7a) and B.5/1a then m else –

Table B.8 – MRCS support summary

Index	Identification of the document that includes the MRCS proforma	Table numbers of MRCS proforma	Description	Constraints and values	Status	Support	Table numbers of MRCS	Additional information
1	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex O, O.1/1	dynamicSimple Scanner-system	–	c20			
2	ITU-T Rec. X.738 | ISO/IEC 10164-13	Annex O, O.1/2	conflictingPackages Scanner-system	–	c21			
3	CCITT Rec. X.735 | ISO/IEC 10164-6	Annex D, D.1/1	logRecord-log	–	c22			
c20: if B.4/8a then m else – c21: if B.4/1a or B.4/2a or B.4/3a or B.4/4a or B.4/5a B.4/6a or B.4/7a then m else – c22: if B.5/1a then m else –								

Table B.9 – MICS support summary

Index	Identification of the document that includes the MICS proforma	Table numbers of MICS proforma	Description	Constraints and values	Status	Support	Table numbers of MICS	Additional information
1	ITU-T Rec. X.738 | ISO/IEC 10164-13	Table C.1 to C.10	Management oprations	–	c23			
2	CCITT Rec. X.730 | ISO/IEC 10164-1	Table B.1	objectCreation, objectDeletion and attributeValueChange notifications	–	c24			
3	CCITT Rec. X.731 | ISO/IEC 10164-2	Table B.1	stateChange notification	–	c25			
4	ITU-T Rec. X.738 | ISO/IEC 10164-13	Table C.11	bufferedScanReport, scanReport and statisticalReport notifications	–	c26			
5	ITU-T Rec. X.738 | ISO/IEC 10164-13	Table C.12	Actions	–	c27			
c23: if B.3/1a then m else – c24: if B.3/9a or B.3/10a or B.3/11a then m else – c25: if B.3/12a then m else – c26: if B.3/2a or B.3/3a or B.3/4a then m else – c27: if B.3/5a or B.3/6a or B.3/7a or B.3/8a then m else –								

Annex C

MICS proforma[3)]

(This annex forms an integral part of this Recommendation | International Standard)

C.1 Introduction

The purpose of this MICS proforma is to provide a mechanism for a supplier of an implementation which claims conformance, in the manager role, to management information specified in this Recommendation | International Standard, to provide conformance information in a standard form.

C.2 Instructions for completing the MICS proforma to produce a MICS

The MICS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. In addition to the general guidance given in ITU-T Rec. X.724 | ISO/IEC 10165-6, the Additional information column shall be used to identify the object classes for which the management operations are supported. The supplier of the implementation shall state which items are supported in tables below and if necessary, provide additional information.

C.3 Symbols, abbreviations and terms

The following abbreviations are used throughout the MICS proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)

The notations used for the Status and Support columns are specified in B.1.3.

C.4 Statement of conformance to the management information

C.4.1 Attributes

The specifier of a manager role implementation that claims to support management operations on the attributes specified in this Recommendation | International Standard shall import a copy of Table C.1 and complete it.

Table C.1 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Valuc of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	–	c1		o.6		–	
2	nameBinding	{dmi-att 63}	–	c1		o.6		–	
3	packages	{dmi-att 66}	–	c1		o.6		–	

(continued on next page)

3) **Copyright release for MICS proforma**

Users of this Recommendation | International Standard may freely reproduce the MICS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MICS.

Table C.1 *(continued)* **– Attribute support**

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by Create		Get		Replace	
				Status	Support	Status	Support	Status	Support
4	allomorphs	{dmi-att 50}	–	c1		o.6		–	
5	scannerId	{moa-att 25}	–	c1		o.6		–	
6	granularityPeriod	{moa-att 23}	–	c1		o.6		o.6	
7	administrativeState	{dmi-att 31}	–	c1		o.6		o.6	
8	operationalState	{dmi-att 35}		–		o.6		–	
9	availabilityStatus	{dmi-att 33}	off-duty required	–		o.6		–	
10	periodSynchronizationTime	{moa-att 24}	–	c2		o.6		o.6	
11	startTime	{dmi-att 68}	–	c2		o.6		o.6	
12	stopTime	{dmi-att 69}	DMI default	c2		o.6		o.6	
13	intervalsOfDay	{dmi-att 57}	DMI default	c2		o.6		o.6	
14	weekMask	{dmi-att 71}	DMI default	c2		o.6		o.6	
15	schedulerName	{dmi-att 67}	–	c2		o.6		–	
16	observationIdList	{summ-att 13}	–	c2		o.6		o.6	
17	onceReportAttributeIdList	{summ-att 16}	–	c3		o.6		o.6	
18	suppressObjectInstance	{summ-att 26}	–	c2		o.6		o.6	
19	timeStampReportMode	{summ-att 29}	timeStamping Off default	c2		o.6		o.6	
20	bufferedObservationIdList	{summ-att 5}	–	c4		o.6		o.6	
21	reportPeriod	{summ-att 19}	–	c4		o.6		o.6	
22	baseManagedObject	{summ-att 3}	–	c5		o.6		o.6	
23	scope	{summ-att 25}	–	c5		o.6		o.6	
24	scanningFilter	{summ-att 24}	–	c5		o.6		o.6	
25	beginTimeOffset	{summ-att 4}	–	c5		o.6		o.6	
26	endTimeOffset	{summ-att 7}	–	c5		o.6		o.6	
27	timeAttributeIdentifier	{summ-att 28}	–	c5		o.6		o.6	
28	objectList	{summ-att 12}	–	c5		o.6		o.6	
29	numericAttributeIdArray	{summ-att 10}	–	c6		o.6		o.6	
30	numericAttributeIdList	{summ-att 11}	–	c7		o.6		o.6	
31	configurablePCT	{moa-att 0}	–	c8		o.6		o.6	

(continued on next page)

Table C.1 *(continued)* – **Attribute support**

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by Create		Get		Replace	
				Status	Support	Status	Support	Status	Support
32	logRecordId	{dmi-att 3}	–	–		o.6		–	
33	loggingTime	{dmi-att 59}	–	–		o.6		–	
34	managedObjectClass	{dmi-att 60}	–	–		o.6		–	
35	managedObjectInstance	{dmi-att 61}	–	–		o.6		–	
36	eventType	{dmi-att 14}	–	–		o.6		–	
37	eventTime	{dmi-att 13}	–	–		o.6		–	
38	notificationIdentifier	{dmi-att 16}	–	–		o.6		–	
39	correlatedNotifications	{dmi-att 12}	–	–		o.6		–	
40	additionalText	{dmi-att 7}	–	–		o.6		–	
41	additionalInformation	{dmi-att 6}	–	–		o.6		–	
42	granularityPeriod	{moa-att 23}	–	–		o.6		–	
43	bufferedObservationList	{summ-att 6}	–	–		o.6		–	
44	firstScanInitiationTime	{summ-att 8}	–	–		o.6		–	
45	suspectIntervals	{summ-att 27}	–	–		o.6		–	
46	incompleteScan	{summ-att 30}	–	–		o.6		–	
47	observationScanList	{summ-att 15}	–	–		o.6		–	
48	scanInitiationTime	{summ-att 22}	–	–		o.6		–	
49	onceReportAttributeList	{summ-att 17}	–	–		o.6		–	
50	algorithmOutputs	{summ-att 1}	–	–		o.6		–	
51	observationReportList	{summ-att 14}	–	–		o.6		–	
52	algorithmParameters	{summ-att 2}	–	–		o.6		–	

Table C.1 *(continued)* – **Attribute support**

Index	Add		Remove		Set to Default		Additional information
	Status	Support	Status	Support	Status	Support	
1	–		–		–		
2	–		–		–		
3	–		–		–		
4	–		–		–		

(continued on next page)

Table C.1 *(continued)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
5	–		–		–		
6	–		–		–		
7	–		–		–		
8	–		–		–		
9	–		–		–		
10	–		–		–		
11	o.6		o.6		o.6		
12	–		–		o.6		
13	o.6		o.6		o.6		
14	o.6		o.6		o.6		
15	–		–		–		
16	o.6		o.6		–		
17	o.6		o.6		–		
18	–		–		–		
19	–		–		o.6		
20	o.6		o.6		–		
21	–		–		–		
22	–		–		–		
23	–		–		–		
24	–		–		o.6		
25	–		–		–		
26	–		–		–		
27	–		–		–		
28	o.6		o.6		–		
29	–		–		–		
30	o.6		o.6		–		
31	–		–		–		
32	–		–		–		
33	–		–		–		
34	–		–		–		

(continued on next page)

Table C.1 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
35	–		–		–		
36	–		–		–		
37	–		–		–		
38	–		–		–		
39	–		–		–		
40	–		–		–		
41	–		–		–		
42	–		–		–		
43	–		–		–		
44	–		–		–		
45	–		–		–		
46	–		–		–		
47	–		–		–		
48	–		–		–		
49	–		–		–		
50	–		–		–		
51	–		–		–		
52	–		–		–		

c1: if C.2/1a or C.3/1a or C.4/1a or C.5/1a or C.6/1a or C.7/1a or C.8/1a or C.9/1a then m else –
c2: if C.2/1a or C.3/1a or C.4/1a or C.5/1a or C.6/1a or C.7/1a or C.8/1a then m else –
c3: if C.2/1a or C.4/1a then m else –
c4: if C.3/1a then m else –
c5: if C.4/1a or C.5/1a or C.6/1a or C.7/1a or C.8/1a then m else –
c6: if C.4/1a then m else –
c7: if C.5/1a or C.6/1a or C.7/1a or C.8/1a then m else –
c8: if C.8/1a then m else –

C.4.2 Create and delete management operations

The specifier of a manager role implementation that claims to support the create or delete management operations on the managed objects specified in this Recommendation | International Standard shall import a copy of Tables C.2 to C.10 and complete them.

C.4.2.1 Heterogeneous scanner managed object class

Table C.2 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.2 Buffered scanner managed object class

Table C.3 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.3 Simple scanner managed object class

Table C.4 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.4 Mean scanner managed object class

Table C.5 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.5 Mean variance scanner managed object class

Table C.6 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.6 Min max scanner managed object class

Table C.7 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.7 Percentile scanner managed object class

Table C.8 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.8 Dynamic simple scanner managed object class

Table C.9 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	o.6		
1.1	Create with reference object	–	c:o		
2	Delete support	–	o.6		

C.4.2.9 Event record managed object classes

Table C.10 – Create and delete support

Index	Operation	Constraints and values	Status	Support	Additional information
1	Create support	–	x		
1.1	Create with reference object	–	–		
2	Delete support	bufferedScanReportRecord, scanReportRecord and statisticalScanReportRecord	o.6		

C.4.3 Notifications

The specifier of a manager role implementation that claims to support the notifications specified in this Recommendation | International Standard shall import a copy of Table C.11 and complete it.

Table C.11 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information
					Confirmed	Non-confirmed	
1	bufferedScanReport	{summ-not 1}	–	c13			
2	scanReport	{summ-not 2}	–	c14			
3	statisticalReport	{summ-not 3}	–	c15			

c13: if B.3/2a then m else –
c14: if B.3/3a then m else –
c15: if B.3/4a then m else –

(continued below)

Table C.11 *(continued)* **– Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1	1.1	granularityPeriod	{moa-att 23}	–	m		
	1.2	firstScanInitiationTime	{summ-att 8}	–	m		
	1.3	suspectIntervals	{summ-att 27}	–	m		
	1.4	bufferedObservationList	{summ-att 6}	–	m		
	1.4.1	objectInstance	–	–	m		
	1.4.1.1	distinguishedName	–	–	m		
	1.4.1.2	nonSpecificForm	–	–	m		
	1.4.1.3	localDistinguishedName	–	–	m		
	1.4.2	reportTimeAttributeList	–	–	m		
	1.4.2.1	attributeId	–	–	m		
	1.4.2.2	attributeValue	–	–	m		
	1.4.2.3	timeStamp	–	–	m		
	1.4.2.4	suspectFlag	–	Default FALSE	m		
	1.4.3	attributesBuffer	–	–	m		
	1.4.3.1	attributeId	–	–	m		
	1.4.3.2	attributeValue	–	–	m		
	1.4.3.3	timeStamp	–	–	m		
	1.4.3.4	suspectFlag	–	Default FALSE	m		
	1.4.4	numericAttributesBuffer	–	–	m		

(continued next page)

Table C.11 *(continued)* **– Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
	1.4.4.1	missingData	–	–	m		
	1.4.4.2	valueOnly	–	–	m		
	1.4.4.3	qualifiedValue	–	–	m		
	1.4.4.3.1	value	–	–	m		
	1.4.4.3.2	timeStamp	–	–	m		
	1.4.4.3.3	suspectFlag	–	Default FALSE	m		
	1.5	incompleteScan	{summ-att 30}	–	m		
	1.6	additionalText	{dmi-att 7}	–	m		
	1.7	additionalInformation	{dmi-att 6}	–	m		
2	2.1.1	scanInitiationTime	{summ-att 22}	–	m		
	2.1.2	onceReportAttributeList	{summ-att 16}	–	m		
	2.1.3	observationScanList	{summ-att 15}	–	m		
	2.1.3.1	observedObjectInstance	–	–	m		
	2.1.3.1.1	distinguishedName	–	–	m		
	2.1.3.1.2	nonSpecificForm	–	–	m		
	2.1.3.1.3	localDistinguishedName	–	–	m		
	2.1.3.2	attributeMeasureList	–	–	m		
	2.1.3.2.1	attributeId	–	–	m		
	2.1.3.2.2	attributeValue	–	–	m		
	2.1.3.2.3	timeStamp	–	–	m		
	2.1.3.2.4	suspectFlag	–	Default FALSE	m		
	2.1.3.3	numericValueArray	–	–	m		
	2.1.3.3.1	missingData	–	–	m		
	2.1.3.3.2	valueOnly	–	–	m		
	2.1.3.3.3	qualifiedValue	–	–	m		
	2.1.3.3.3.1	value	–	–	m		
	2.1.3.3.3.2	timeStamp	–	–	m		
	2.1.3.3.3.3	suspectFlag	–	Default FALSE	m		

(continued next page)

Table C.11 *(concluded)* – **Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
	2.1.4	incompleteScan	{summ-att 30}	–	m		
	2.1.5	additionalText	{dmi-att 7}	–	m		
	2.1.6	additionalInformation	{dmi-att 6}	–	m		
3	3.1	scanInitiationTime	{summ-att 22}	–	m		
	3.2	observationReportList	{summ-att 14}	–	m		
	3.2.1	objectInstance	–	–	m		
	3.2.1.1	distinguishedName	–	–	m		
	3.2.1.2	nonSpecificForm	–	–	m		
	3.2.1.3	localDistinguishedName	–	–	m		
	3.2.2	attributeMeasureList	–	–	m		
	3.2.2.1	attributeId	–	–	m		
	3.2.2.2	attributeValue	–	–	m		
	3.2.2.3	timeStamp	–	–	m		
	3.2.2.4	suspectFlag	–	Default FALSE	m		
	3.3	algorithmOutputs	{summ-att 1}	–	m		
	3.3.1	attributeId	–	–	m		
	3.3.2	algorithmOutput	–	–	m		
	3.3.2.1	integer	–	–	m		
	3.3.2.2	real	–	–	m		
	3.4	algorithmParameters	{summ-att 2}	–	m		
	3.4.1	integer	–	–	m		
	3.4.2	real	–	–	m		
	3.5	incompleteScan	{summ-att 30}	–	m		
	3.6	additionalText	{dmi-att 7}	–	m		
	3.7	additionalInformation	{dmi-att 6}	–	m		

C.4.4 Actions

The specifier of a manager role implementation that claims to support the actions specified in this Recommendation | International Standard shall import a copy of Table C.12 and complete it.

Table C.12 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateDynamic SimpleReport	{summ-act 1}	1.1	Information		c16		
			1.2	Reply		c16		
2	activateScan Report	{summ-act 2}	2.1	Information	No information syntax	c17		No support table required
			2.2	Reply		c17		
3	activateStatistical Report	{summ-act 3}	3.1	Information	No information syntax	c18		No support table required
			3.2	Reply		c18		
4	reportBuffer	{summ-act 4}	4.1	Information	No information syntax	c19		No support table required
			4.2	Reply		c19		

c16: if B.3/5a then m else –
c17: if B.3/6a then m else –
c18: if B.3/7a then m else –
c19: if B.3/8a then m else –

(continued below)

Table C.12 *(continued)* **– Action support** *(continued for Index 1.1)*

Index 1.1 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.1.1	scanAttributeIdList	{summ-att 21}	–	o		
1.1.2	numericAttributeIdArray	{summ-att 10}	–	o		
1.1.3	scopedSelection	–	–	o.7		
1.1.3.1	baseManagedObject	–	–	c:m		
1.1.3.1.1	distinguishedName	–	–	c:o.8		
1.1.3.1.2	nonSpecificForm	–	–	c:o.8		
1.1.3.1.3	localDistinguishedName	–	–	c:o.8		
1.1.3.2	scope	–	–	c:m		
1.1.3.3	scanningFilter	–	–	c:m		
1.1.4	objectList	–	–	o.7		
1.1.5	suppressObjectInstance	{summ-att 26}	–	o		
1.1.6	onceReportAttributeIdList	{summ-att 16}	–	o		
1.1.7	timeStampReportMode	{summ-att 29}	–	o		

(continued on next page)

Table C.12 *(continued)* – **Action support** *(concluded for Index 1.2)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.1	scanInitiationTime	{summ-att 22}	–	m		
1.2.2	onceReportAttributeList	{summ-att 16}	–	m		
1.2.3	observationScanList	{summ-att 15}	–	m		
1.2.3.1	observedObjectInstance	–	–	m		
1.2.3.1.1	distinguishedName	–	–	m		
1.2.3.1.2	nonSpecificForm	–	–	m		
1.2.3.1.3	localDistinguishedName	–	–	m		
1.2.3.2	attributeMeasureList	–	–	m		
1.2.3.2.1	attributeId	–	–	m		
1.2.3.2.2	attributeValue	–	–	m		
1.2.3.2.3	timeStamp	–	–	m		
1.2.3.2.4	suspectFlag	–	Default FALSE	m		

(continued below)

Table C.12 *(continued)* – **Action support** *(concluded for Index 1.2)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.3.3	numericValueArray	–	–	m		
1.2.3.3.1	missingData	–	–	m		
1.2.3.3.2	valueOnly	–	–	m		
1.2.3.3.3	qualifiedValue	–	–	m		
1.2.3.3.3.1	value	–	–	m		
1.2.3.3.3.2	timeStamp	–	–	m		
1.2.3.3.3.3	suspectFlag	–	Default FALSE	m		
1.2.4	incompleteScan	{summ-att 30}	–	m		
1.2.5	additionalText	{dmi-att 7}	–	m		
1.2.6	additionalInformation	{dmi-att 6}	–	m		

(continued on next page)

Table C.12 *(continued)* – **Action support** *(concluded for Index 2.2)*

Index 2.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
2.2.1	scanInitiationTime	{summ-att 22}	–	m		
2.2.2	onceReportAttributeList	{summ-att 16}	–	m		
2.2.3	observationScanList	{summ-att 15}	–	m		
2.2.3.1	observedObjectInstance	–	–	m		
2.2.3.1.1	distinguishedName	–	–	m		
2.2.3.1.2	nonSpecificForm	–	–	m		
2.2.3.1.3	localDistinguishedName	–	–	m		
2.2.3.2	attributeMeasureList	–	–	m		
2.2.3.2.1	attributeId	–	–	m		
2.2.3.2.2	attributeValue	–	–	m		
2.2.3.2.3	timeStamp	–	–	m		
2.2.3.2.4	suspectFlag	–	Default FALSE	m		
2.2.3.3	numericValueArray	–	–	m		
2.2.3.3.1	missingData	–	–	m		
2.2.3.3.2	valueOnly	–	–	m		

(continued below)

Table C.12 *(continued)* – **Action support** *(concluded for Index 2.2)*

Index 2.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
2.2.3.3.3	qualifiedValue	–	–	m		
2.2.3.3.3.1	value	–	–	m		
2.2.3.3.3.2	timeStamp	–	–	m		
2.2.3.3.3.3	suspectFlag	–	Default FALSE	m		
2.2.4	incompleteScan	{summ-att 30}	–	m		
2.2.5	additionalText	{dmi-att 7}	–	m		
2.2.6	additionalInformation	{dmi-att 6}	–	m		

(continued on next page)

Table C.12 *(continued)* – **Action support** *(concluded for Index 3.2)*

Index 3.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
3.2.1	scanInitiationTime	{summ-att 22}	–	m		
3.2.2	observationReportList	{summ-att 14}	–	m		
3.2.2.1	objectInstance	–	–	m		
3.2.2.1.1	distinguishedName	–	–	m		
3.2.2.1.2	nonSpecificForm	–	–	m		
3.2.2.1.3	localDistinguishedName	–	–	m		
3.2.2.2	attributeMeasureList	–	–	m		
3.2.2.2.1	attributeId	–	–	m		
3.2.2.2.2	attributeValue	–	–	m		
3.2.2.2.3	timeStamp	–	–	m		
3.2.2.2.4	suspectFlag	–	Default FALSE	m		
3.2.3	algorithmOutputs	{summ-att 1}	–	m		
3.2.3.1	attributeId	–	–	m		
3.2.3.2	algorithmOutput	–	–	m		
3.2.3.2.1	integer	–	–	m		
3.2.3.2.2	real	–	–	m		
3.2.4	algorithmParameters	{summ-att 2}	–	m		
3.2.4.1	integer	–	–	m		
3.2.4.2	real	–	–	m		
3.2.5	incompleteScan	{summ-att 30}	–	m		
3.2.6	additionalText	{dmi-att 7}	–	m		
3.2.7	additionalInformation	{dmi-att 6}	–	m		

(continued below)

Table C.12 *(continued)* – **Action support** *(concluded for Index 4.2)*

Index 4.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
4.2.1	granularityPeriod	{moa-att 23}	–	m		
4.2.2	firstScanInitiationTime	{summ-att 8}	–	m		
4.2.3	suspectIntervals	{summ-att 27}	–	m		
4.2.4	bufferedObservationList	{summ-att 6}	–	m		
4.2.4.1	objectInstance	–	–	m		
4.2.4.1.1	distinguishedName	–	–	m		
4.2.4.1.2	nonSpecificForm	–	–	m		
4.2.4.1.3	localDistinguishedName	–	–	m		

(continued next page)

Table C.12 *(concluded)* – **Action support** *(concluded for Index 4.2)*

Index 4.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
4.2.4.2	reportTimeAttributeList	–	–	m		
4.2.4.2.1	attributeId	–	–	m		
4.2.4.2.2	attributeValue	–	–	m		
4.2.4.2.3	timeStamp	–	–	m		
4.2.4.2.4	suspectFlag	–	Default FALSE	m		
4.2.4.3	attributesBuffer	–	–	m		
4.2.4.3.1	attributeId	–	–	m		
4.2.4.3.2	attributeValue	–	–	m		
4.2.4.3.3	timeStamp	–	–	m		
4.2.4.3.4	suspectFlag	–	Default FALSE	m		
4.2.4.4	numericAttributesBuffer	–	–	m		
4.2.4.4.1	missingData	–	–	m		
4.2.4.4.2	valueOnly	–	–	m		
4.2.4.4.3	qualifiedValue	–	–	m		
4.2.4.4.3.1	value	–	–	m		
4.2.4.4.3.2	timeStamp	–	–	m		
4.2.4.4.3.3	suspectFlag	–	Default FALSE	m		
4.2.5	incompleteScan	{summ-att 30}	–	m		
4.2.6	additionalText	{dmi-att 7}	–	m		
4.7	additionalInformation	{dmi-att 6}	–	m		

C.4.5 Parameters

The specifier of a manager role implementation that claims to support the parameters specified in this Recommendation | International Standard shall import a copy of Table C.13 and complete it.

Table C.13 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ–prm 1}	–	c20		
2	conflictingPackages RequestedError	{summ–prm 2}	–	c21		
c20: if C.12/1.2a or C.12/2.2a or C.12/3.2a or C.12/4.2a then m else –						
c21: if C.2/1a or C.3/1a or C.4/1a or C.5/1a C.6/1a or C.7/1a or C.8/1a or C.9/1a then m else –						

Annex D

MOCS proforma[4] for "Heterogeneous scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

D.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

D.1.1 Instructions for completing the MOCS proforma to produce a MOCS[5]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in Tables D.1 to D.7 and if necessary provide additional information.

D.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma.

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
summ-prm	joint-iso-ccitt ms(9) function(2) part13(13) action(5)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

D.2 Statement of conformance to the managed object class

Table D.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	heterogeneousScanner	{summ–mo 6}		

4) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

5) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in Table D.1 is no, the supplier of the implementation shall fill in the actual class support Table D.2.

Table D.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

D.3 Packages

Table D.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotification Package	{m3100 pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	heterogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	onceReportAttributeIdList	{summ-pkg 6}	–	o		

c1: if D.3/3a or D.3/5a or D.3/6a or D.3/7a or D.3/8a or D.3/9a or D.3/10a or D.3/11a or D.3/12a or D.3/13a or D.3/15a or D.3/16a then m else –

c2: if D.1/1b then – else m

c3: if D.3/6a or D.3/7a or D.3/8a or D.3/9a then m else –

D.4 Attributes

Table D.4 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	–	m		m		x	
2	nameBinding	{dmi-att 63}	–	o		m		c4	
3	packages	{dmi-att 66}	–	c5		c6		c7	
4	allomorphs	{dmi-att 50}	–	c8		c9		c1	
5	scannerId	{moa-att 25}	–	o		m		x	
6	granularityPeriod	{moa-att 23}	–	m		m		m	
7	administrativeState	{dmi-att 31}	–	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off–duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	–	c12		c12		c12	
11	startTime	{dmi-att 68}	–	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	–	o		c16		x	
16	obscrvationIdList	{summ-att 13}	–	m		m		m	
17	suppressObjectInstance	{summ-att 26}	–	m		m		m	
18	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
19	onceReportAttributeIdList	{summ-att 16}	–	c18		c18		c18	

(continued on next page)

Table D.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	m		m		c4		
17	–		–		c4		
18	–		–		c17		
19	c18		c18		c4		

c4: if D.1/1b then x else –
c5: if D.3/2a then o else –
c6: if D.3/2a then m else –
c7: if D.3/2a then x else –
c8: if D.3/3a then o else –
c9: if D.3/3a then m else –
c10: if D.3/5a then x else –
c11: if D.3/10a then m else –
c12: if D.3/10a then m else –
c13: if D.3/6a then m else –
c14: if D.3/7a then m else –
c15: if D.3/8a then m else –
c16: if D.3/9a then m else –
c17: if D.3/15a then m else –
c18: if D.3/16a then m else –

D.5 Notifications

Table D.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information
					Confirmed	Non-confirmed	
1	objectCreation	{dmi-not 6}	–	c19			
2	objectDeletion	{dmi-not 7}	–	c19			
3	attributeValueChange	{dmi-not 1}	–	c20			
4	stateChange	{dmi-not 14}	–	c21			
5	scanReport	{summ-not 2}	–	m			
c19: if D.3/11a then m else – c20: if D.3/12a then m else – c21: if D.3/13a then m else –							

(continued below)

Table D.5 *(continued)* **– Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1	1.1	sourceIndicator	{dmi-att 26}	0 to 2	o		
	1.2	attributeList	{dmi-att 9}	–	o		
	1.3	notificationIdentifier	{dmi-att 16}	–	c22		
	1.4	correlatedNotifications	{dmi-att 12}	–	o		
	1.4.1	correlatedNotifications		–	c:m		
	1.4.2	sourceObjectInst		–	c:o		
	1.4.2.1	distinguishedName		–	c:o.9		
	1.4.2.2	nonSpecificForm		–	c:o.9		
	1.4.2.3	localDistinguishedName		–	c:o.9		
	1.5	additionalText	{dmi-att 7}	–	o		
	1.6	additionalInformation	{dmi-att 6}	–	o		
2	2.1	sourceIndicator	{dmi-att 26}	0 to 2	o		
	2.2	attributeList	{dmi-att 9}	–	o		
	2.3	notificationIdentifier	{dmi-att 16}	–	c23		

(continued on next page)

Table D.5 *(continued)* – **Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
	2.4	correlatedNotifications	{dmi-att 12}	–	o		
	2.4.1	correlatedNotifications		–	c:m		
	2.4.2	sourceObjectInst		–	c:o		
	2.4.2.1	distinguishedName		–	c:o.10		
	2.4.2.2	nonSpecificForm		–	c:o.10		
	2.4.2.3	localDistinguishedName		–	c:o.10		
	2.5	additionalText	{dmi-att 7}	–	o		
	2.6	additionalInformation	{dmi-att 6}	–	o		
3	3.1	sourceIndicator	{dmi-att 26}	0 to 2	o		
	3.2	attribute identifier list	{dmi-att 8}	–	o		
	3.3	attributeValueChange definition	{dmi-att 10}	–	m		
	3.3.1	attributeId		–	m		
	3.3.2	oldAttributeValue		–	o		
	3.3.3	newAttributeValue		–	m		
	3.4	notificationIdentifier	{dmi-att 16}	–	c24		
	3.5	correlatedNotifications	{dmi-att 12}	–	o		
	3.4.1	correlatedNotifications		–	c:m		
	3.4.2	sourceObjectInst		–	c:o		
	3.4.2.1	distinguishedName		–	c:o.11		
	3.4.2.2	nonSpecificForm		–	c:o.11		
	3.4.2.3	localDistinguishedName		–	c:o.11		
	3.6	additionalText	{dmi-att 7}	–	o		
	3.7	additionalInformation	{dmi-att 6}	–	o		
4	4.1	sourceIndicator	{dmi-att 26}	0 to 2	o		
	4.2	attribute identifier list	{dmi-att 8}	–	o		
	4.3	stateChangeDefinition	{dmi-att 28}	–	m		
	4.3.1	attributeId		–	m		
	4.3.2	oldAttributeValue		–	o		
	4.3.3	newAttributeValue		–	m		
	4.4	notificationIdentifier	{dmi-att 16}	–	c25		

(continued on next page)

Table D.5 *(concluded)* **– Notification support**

Index	Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
	4.5	correlatedNotifications	{dmi-att 12}	–	o		
	4.5.1	correlatedNotifications		–	c:m		
	4.5.2	sourceObjectInst		–	c:o		
	4.5.2.1	distinguishedName		–	c:o.12		
	4.5.2.2	nonSpecificForm		–	c:o.12		
	4.5.2.3	localDistinguishedName		–	c:o.12		
	4.6	additionalText	{dmi-att 7}	–	o		
	4.7	additionalInformation	{dmi-att 6}	–	o		
5	5.1	scanInitiationTime	{summ-att 22}	–	o		
	5.2	onceReportAttributeList	{summ-att 16}	–	o		
	5.3	observationScanList	{summ-att 15}	–	m		
	5.3.1	observedObjectInstance	–	–	o		
	5.3.1.1	distinguishedName	–	–	c:o.13		
	5.3.1.2	nonSpecificForm	–	–	c:o.13		
	5.3.1.3	localDistinguishedName	–	–	c:o.13		
	5.3.2	attributeMeasureList	–	–	o		
	5.3.2.1	attributeId	–	–	c:m		
	5.3.2.2	attributeValue	–	–	c:o		
	5.3.2.3	timeStamp	–	–	c:o		
	5.3.2.4	suspectFlag	–	Default FALSE	c:o		
	5.3.3	numericValueArray	–	–	c:o		
	5.3.3.1	missingData	–	–	c:o.14		
	5.3.3.2	valueOnly	–	–	c:o.14		
	5.3.3.3	qualifiedValue	–	–	c:o.14		
	5.3.3.3.1	value	–	–	c:m		
	5.3.3.3.2	timeStamp	–	–	c:o		
	5.3.3.3.3	suspectFlag	–	Default FALSE	c:o		
	5.4	incompleteScan	{summ-att 30}	–	o		
	5.5	additionalText	{dmi-att 7}	–	o		
	5.6	additionalInformation	{dmi-att 6}	–	o		

c22: if D.5/1.4a then m else o
c23: if D.5/2.4a then m else o
c24: if D.5/3.5a then m else o
c25: if D.5/4.5a then m else o

D.6 Actions

Table D.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information / Reply	Constraints and values	Status	Support	Additional information
1	activateScanReport	{summ-act 2}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

(continued below)

Table D.6 *(concluded)* **– Action support** *(concluded for Index 1.2)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.1	scanInitiationTime	{summ-att 22}	–	o		
1.2.2	onceReportAttributeList	{summ-att 16}	–	o		
1.2.3	observationScanList	{summ-att 15}	–	m		
1.2.3.1	observedObjectInstance	–	–	o		
1.2.3.1.1	distinguishedName	–	–	c:o.15		
1.2.3.1.2	nonSpecificForm	–	–	c:o.15		
1.2.3.1.3	localDistinguishedName	–	–	c:o.15		
1.2.3.2	attributeMeasureList	–	–	o		
1.2.3.2.1	attributeId	–	–	c:m		
1.2.3.2.2	attributeValue	–	–	c:o		
1.2.3.2.3	timeStamp	–	–	c:o		
1.2.3.2.4	suspectFlag	–	Default FALSE	c:o		
1.2.3.3	numericValueArray	–	–	c:o		
1.2.3.3.1	missingData	–	–	c:o.16		
1.2.3.3.2	valueOnly	–	–	c:o.16		
1.2.3.3.3	qualifiedValue	–	–	c:o.16		
1.2.3.3.3.1	value	–	–	c:m		
1.2.3.3.3.2	timeStamp	–	–	c:o		
1.2.3.3.3.3	suspectFlag	–	Default FALSE	c:o		
1.2.4	incompleteScan	{summ-att 30}	–	o		
1.2.5	additionalText	{dmi-att 7}	–	o		
1.2.6	additionalInformation	{dmi-att 6}	–	o		

D.7 Parameters

Table D.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex E

MOCS proforma[6] for "Buffered scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

E.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

E.1.1 Instructions for completing the MOCS proforma to produce a MOCS[7]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU–T Rec X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in Tables E.1 to E.7 and if necessary provide additional information.

E.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this Annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646–2.

The following abbreviations are used throughout this proforma.

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
summ-prm	joint-iso-ccitt ms(9) function(2) part13(13) action(5)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

E.2 Statement of conformance to the managed object class

Table E.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	bufferedScanner	{summ-mo 1}		

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7) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in the managed object class support table is no, the supplier of the implementation shall fill in the actual class support Table E.2.

Table E.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

E.3 Packages

Table E.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage		–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotification Package	{m3100 pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	bufferedScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		

c1: if E.3/3a or E.3/5a or E.3/6a or E.3/7a or E.3/8a or E.3/9a or E.3/10a or E.3/11a or E.3/12a or E.3/13a or E.3/15a or E.3/16a then m else –

c2: if E.1/1b then – else m

c3: if E.3/6a or E.3/7a or E.3/8a or E.3/9a then m else –

E.4 Attributes

Table E.4 – Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by Cretae		Get		Replace	
				Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	–	m		m		x	
2	nameBinding	{dmi-att 63}	–	o		m		c4	
3	packages	{dmi-att 66}	–	c5		c6		c7	
4	allomorphs	{dmi-att 50}	–	c8		c9		–	
5	scannerId	{moa-att 25}	–	o		m		x	
6	granularityPeriod	{moa-att 23}	–	m		m		m	
7	administrativeState	{dmi-att 31}	–	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	–	c12		c12		c12	
11	startTime	{dmi-att 68}	–	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	–	o		c16		x	
16	bufferedObservationIdList	{summ-att 5}	–	m		m		m	
17	reportPeriod	{summ-att 19}	–	m		m		m	
18	suppressObjectInstance	{summ-att 26}	–	m		m		m	
19	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	

(continued below)

Table E.4 *(continued)* **– Attribute support**

Index	Add		Remove		Set to Default		Additional information
	Status	Support	Status	Support	Status	Support	
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		

Table E.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	m		m		c4		
17	–		–		c4		
18	–		–		c4		
19	–		–		c17		

c4: if E.1/1b then x else –
c5: if E.3/2a then o else –
c6: if E.3/2a then m else –
c7: if E.3/2a then x else –
c8: if E.3/3a then o else –
c9: if E.3/3a then m else –
c10: if E.3/5a then x else –
c11: if E.3/5a then m else –
c12: if E.3/10a then m else –
c13: if E.3/6a then m else –
c14: if E.3/7a then m else –
c15: if E.3/8a then m else –
c16: if E.3/9a then m else –
c17: if E.3/15a then m else –

E.5 Notifications

Table E.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information
					Confirmed	Non-confirmed	
1	objectCreation	{dmi-not 6}	–	c18			
2	objectDeletion	{dmi-not 7}	–	c18			
3	attributeValueChange	{dmi-not 1}	–	c19			
4	stateChange	{dmi-not 14}	–	c20			
5	bufferedScanReport	{summ-not 1}	–	m			
c18: if E.3/11a then m else – c19: if E.3/12a then m else – c20: if E.3/13a then m else –							

The detailed requirements for objectCreation, objectDeletion, attributeValueChange and stateChange notifications for this managed object class are as specified in Table D.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for objectCreation, objectDeletion, attributeValueChange and stateChange notifications in Table D.5 for this managed object class if the support is different.

Table E.5 *(continued)* **– Notification support** *(concluded for Index 5)*

Index 5 Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
5.1	granularityPeriod	{moa-att 23}	–	m		
5.2	firstScanInitiationTime	{summ-att 8}	–	o		
5.3	suspectIntervals	{summ-att 27}	–	o		
5.4	bufferedObservationList	{summ-att 6}	–	m		
5.4.1	objectInstance	–	–	o		
5.4.1.1	distinguishedName	–	–	c:o.17		
5.4.1.2	nonSpecificForm	–	–	c:o.17		
5.4.1.3	localDistinguishedName	–	–	c:o.17		
5.4.2	reportTimeAttributeList	–	–	o		
5.4.2.1	attributeId	–	–	c:m		
5.4.2.2	attributeValue	–	–	c:o		

(continued)

Table E.5 *(continued)*– **Notification support** *(concluded for Index 5)*

Index 5 Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
5.4.2.3	timeStamp	–	–	c:o		
5.4.2.4	suspectFlag	–	Default FALSE	c:o		
5.4.3	attributesBuffer	–	–	o		
5.4.3.1	attributeId	–	–	c:m		
5.4.3.2	attributeValue	–	–	c:o		
5.4.3.3	timeStamp	–	–	c:o		
5.4.3.4	suspectFlag	–	Default FALSE	c:o		
5.4.4	numericAttributesBuffer	–	–	o		
5.4.4.1	missingData	–	–	c:o.18		
5.4.4.2	valueOnly	–	–	c:o.18		
5.4.4.3	qualifiedValue	–	–	c:o.18		
5.4.4.3.1	value	–	–	c:m		
5.4.4.3.2	timeStamp	–	–	c:o		
5.4.4.3.3	suspectFlag	–	Default FALSE	c:o		
5.5	incompleteScan	{summ-att 30}	–	o		
5.6	additionalText	{dmi-att 7}	–	o		
5.7	additionalInformation	{dmi-att 6}	–	o		

E.6 Actions

Table E.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	reportBuffer	{summ-act 4}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

(continued on next page)

Table E.6 – Action support *(concluded for Index 1)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.1	granularityPeriod	{moa-att 23}	–	m		
1.2.2	firstScanInitiationTime	{summ-att 8}	–	o		
1.2.3	suspectIntervals	{summ-att 27}	–	o		
1.2.4	bufferedObservationList	{summ-att 6}	–	m		
1.2.4.1	objectInstance	–	–	o		
1.2.4.1.1	distinguishedName	–	–	c:o.19		
1.2.4.1.2	nonSpecificForm	–	–	c:o.19		
1.2.4.1.3	localDistinguishedName	–	–	c:o.19		
1.2.4.2	reportTimeAttributeList	–	–	o		
1.2.4.2.1	attributeId	–	–	c:m		
1.2.4.2.2	attributeValue	–	–	c:o		
1.2.4.2.3	timeStamp	–	–	c:o		
1.2.4.2.4	suspectFlag	–	Default FALSE	c:o		
1.2.4.3	attributesBuffer	–	–	o		
1.2.4.3.1	attributeId	–	–	c:m		
1.2.4.3.2	attributeValue	–	–	c:o		
1.2.4.3.3	timeStamp	–	–	c:o		
1.2.4.3.4	suspectFlag	–	Default FALSE	c:o		
1.2.4.4	numericAttributesBuffer	–	–	o		
1.2.4.4.1	missingData	–	–	c:o.20		
1.2.4.4.2	valueOnly	–	–	c:o.20		
1.2.4.4.3	qualifiedValue	–	–	c:o.20		
1.2.4.4.3.1	value	–	–	c:m		
1.2.4.4.3.2	timeStamp	–	–	c:o		
1.2.4.4.3.3	suspectFlag	–	Default FALSE	c:o		
1.2.5	incompleteScan	{summ-att 30}	–	o		
1.2.6	additionalText	{dmi-att 7}	–	o		
1.2.7	additionalInformation	{dmi-att 6}	–	o		

E.7 Parameters

Table E.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex F

MOCS proforma[8)] for "Simple scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

F.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

F.1.1 Instructions for completing the MOCS proforma to produce a MOCS[9)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

F.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this Annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

F.2 Statement of conformance to the managed object class

Table F.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	simpleScanner	{summ-mo 14}		

8) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

9) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in Table F.1 is no, the supplier of the implementation shall fill in the actual class support Table F.2.

Table F.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

F.3 Packages

Table F.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotificationPackage	{m3100-pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	heterogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	scopedSelectionPackage	{summ-pkg 10}	–	o.21		
17	timingSelectionPackage	{summ-pkg 13}	–	o		
18	managedObjectInstanceSelectionPackage	{summ-pkg 4}	–	o.21		
19	simpleScannerPackage	–	–	m		
20	onceReportAttributeIdListPackage	{summ-pkg 6}	–	o		

c1: if F.3/3a or F.3/5a or F.3/6a or F.3/7a or F.3/8a or F.3/9a or F.3/10a or F.3/11a or F.3/12a or F.3/13a or F.3/15a or F.3/16a or F.3/17a or F.3/18a or F.3/20a then m else –

c2: if F.1/1b then – else m

c3: if F.3/6a or F.3/7a or F.3/8a or F.3/9a then m else –

F.4 Attributes

Table F.4 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	_	m		m		x	
2	nameBinding	{dmi-att 63}	_	o		m		c4	
3	packages	{dmi-att 66}	_	c5		c6		c7	
4	allomorphs	{dmi-att 50}	_	c8		c9		–	
5	scannerId	{moa-att 25}	_	o		m		x	
6	granularityPeriod	{moa-att 23}	_	m		m		m	
7	administrativeState	{dmi-att 31}	_	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	_	c12		c12		c12	
11	startTime	{dmi-att 68}	_	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	_	o		c16		x	
16	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
17	baseManagedObject	{summ-att 3}	_	c18		c18		c18	
18	scope	{summ-att 25}	_	c18		c18		c18	
19	scanningFilter	{summ-att 24}	_	c18		c18		c18	
20	beginTimeOffset	{summ-att 4}	_	c19		c19		c19	
21	endTimeOffset	{summ-att 7}	_	c19		c19		c19	
22	timeAttributeIdentifier	{summ-att 28}	_	c19		c19		c19	
23	objectList	{summ-att 12}	_	c20		c20		c20	
24	numericAttributeIdArray	{summ-att 10}	_	m		m		m	
25	suppressObjectInstance	{summ-att 26}	_	m		m		m	
26	onceReportAttributeIdList	{summ-att 16}	_	c21		c21		c21	

(continued on next page)

Table F.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	–		–		c17		
17	–		–		c4		
18	–		–		c4		
19	–		–		c18		
20	–		–		c4		
21	–		–		c4		
22	–		–		c4		
23	c20		c20		c4		
24	–		–		c4		
25	–		–		c4		
26	c21		c21		c4		

c4: if F.1/1b then x else –
c5: if F.3/2a then o else –
c6: if F.3/2a then m else –
c7: if F.3/2a then x else –
c8: if F.3/3a then o else –
c9: if F.3/3a then m else –
c10: if F.3/5a then x else –
c11: if F.3/10a then m else –
c12: if F.3/10a then m else –
c13: if F.3/6a then m else –
c14: if F.3/7a then m else –
c15: if F.3/8a then m else –
c16: if F.3/9a then m else –
c17: if F.3/15a then m else –
c18: if F.3/16a then m else –
c19: if F.3/17a then m else –
c20: if F.3/18a then m else –
c21: if F.3/20a then m else –

F.5 Notifications

Table F.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		
					Confirmed	Non-confirmed	Additional information
1	objectCreation	{dmi-not 6}	_	c22			
2	objectDeletion	{dmi-not 7}	_	c22			
3	attributeValueChange	{dmi-not 1}	_	c23			
4	stateChange	{dmi-not 14}	_	c24			
5	scanReport	{summ-not 2}	_	m			
c22: if F.5/11a then m else – c23: if F.5/12a then m else – c24: if F.5/13a then m else –							

The detailed requirements for each of the above notifications for this managed object class are as specified in Table D.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of Table D.5 for this managed object class if the support is different.

F.6 Actions

Table F.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateStatistical Report	{summ-act 3}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

(continued below)

Table F.6 *(continued)* **– Action support** *(concluded for Index 1.2)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.1	scanInitiationTime	{summ-att 22}	–	o		
1.2.2	observationReportList	{summ-att 14}	–	m		
1.2.2.1	objectInstance	–	–	o		
1.2.2.1.1	distinguishedName	–	–	c:o.22		
1.2.2.1.2	nonSpecificForm	–	–	c:o.22		
1.2.2.1.3	localDistinguishedName	–	–	c:o.22		

Table F.6 *(concluded)* – **Action support** *(concluded for Index 1.2)*

Index 1.2 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.2.2.2	attributeMeasureList	–	–	o		
1.2.2.2.1	attributeId	–	–	c:m		
1.2.2.2.2	attributeValue	–	–	c:o		
1.2.2.2.3	timeStamp	–	–	c:o		
1.2.2.2.4	suspectFlag	–	Default FALSE	c:o		
1.2.3	algorithmOutputs	{summ-att 1}	–	m		
1.2.3.1	attibuteId	–	–	m		
1.2.3.2	algorithmOutput	–	–	m		
1.2.3.2.1	integer	–	–	o.23		
1.2.3.2.2	real	–	–	o.23		
1.2.4	algorithmParameters	{summ-att 2}	–	o		
1.2.4.1	integer	–	–	c:o.24		
1.2.4.2	real	–	–	c:o.24		
1.2.5	incompleteScan	{summ-att 30}	–	o		
1.2.6	additionalText	{dmi-att 7}	–	o		
1.2.7	additionalInformation	{dmi-att 6}	–	o		

F.7 Parameters

Table F.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex G

MOCS proforma[10)] for "Mean scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

G.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

G.1.1 Instructions for completing the MOCS proforma to produce a MOCS[11)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

G.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

G.2 Statement of conformance to the managed object class

Table G.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	meanScanner	{summ-mo 8}		

If the answer to the actual class question in Table G.1 is no, the supplier of the implementation shall fill in the actual class support Table G.2.

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10) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

11) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

Table G.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

G.3 Packages

Table G.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotificationPackage	{m3100-pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	homogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	scopedSelectionPackage	{summ-pkg 10}	–	o.25		
17	timingSelectionPackage	{summ-pkg 13}	–	o		
18	managedObjectInstanceSelectionPackage	{summ-pkg 4}	–	o.25		
19	ensemblePackage	–	–	m		
20	meanScannerPackage	–	–	m		

c1: if G.3/3a or G.3/5a or G.3/6a or G.3/7a or G.3/8a or G.3/9a or G.3/10a or G.3/11a or G.3/12a or G.3/13a or G.3/15a or G.3/16a or G.3/17a or G.3/18a then m else –

c2: if G.1/1b then – else m

c3: if G.3/6a or G.3/7a or G.3/8a or G.3/9a then m else –

G.4 Attributes

Table G.4 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	_	m		m		x	
2	nameBinding	{dmi-att 63}	_	o		m		c4	
3	packages	{dmi-att 66}	_	c5		c6		c7	
4	allomorphs	{dmi-att 50}	_	c8		c9		–	
5	scannerId	{moa-att 25}	_	o		m		x	
6	granularityPeriod	{moa-att 23}	_	m		m		m	
7	administrativeState	{dmi-att 31}	_	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	_	c12		c12		c12	
11	startTime	{dmi-att 68}	_	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	_	o		c16		x	
16	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
17	baseManagedObject	{summ-att 3}	_	c18		c18		c18	
18	scope	{summ-att 25}	_	c18		c18		c18	
19	scanningFilter	{summ-att 24}	_	c18		c18		c18	
20	beginTimeOffset	{summ-att 4}	_	c19		c19		c19	
21	endTimeOffset	{summ-att 7}	_	c19		c19		c19	
22	timeAttributeIdentifier	{summ-att 28}	_	c19		c19		c19	
23	objectList	{summ-att 12}	_	c20		c20		c20	
24	numericAttributeIdList	{summ-att 11}	_	m		m		m	
25	suppressObjectInstance	{summ-att 26}	_	m		m		m	

(continued on next page)

Table G.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	–		–		c17		
17	–		–		c4		
18	–		–		c4		
19	–		–		c18		
20	–		–		c4		
21	–		–		c4		
22	–		–		c4		
23	c20		c20		c4		
24	m		m		c4		
25	–		–		c4		

c4: if G.1/1b then x else –
c5: if G.3/2a then o else –
c6: if G.3/2a then m else –
c7: if G.3/2a then x else –
c8: if G.3/3a then o else –
c9: if G.3/3a then m else –
c10: if G.3/5a then x else –
c11: if G.3/10a then m else –
c12: if G.3/10a then m else –
c13: if G.3/6a then m else –
c14: if G.3/7a then m else –
c15: if G.3/8a then m else –
c16: if G.3/9a then m else –
c17: if G.3/15a then m else –
c18: if G.3/16a then m else –
c19: if G.3/17a then m else –
c20: if G.3/18a then m else –

G.5 Notifications

Table G.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information
					Confirmed	Non-confirmed	
1	objectCreation	{dmi-not 6}	_	c21			
2	objectDeletion	{dmi-not 7}	_	c21			
3	attributeValueChange	{dmi-not 1}	_	c22			
4	stateChange	dmi-not 14}	_	c23			
5	statisticalReport	{summ-not 3}	_	m			
c21: if G.5/11a then m else – c22: if G.5/12a then m else – c23: if G.5/13a then m else –							

The detailed requirements for objectCreation, objectDeletion, attributeValueChange and stateChange notifications for this managed object class are as specified in Table D.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for objectCreation, objectDeletion, attributeValueChange and stateChange notifications in Table D.5 for this managed object class if the support is different.

(continued below)

Table G.5 – Notification support *(continued for Index 5)*

Index 5 Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
5.1	scanInitiationTime	{summ-att 22}	–	o		
5.2	observationReportList	{summ-att 14}	–	m		
5.2.1	objectInstance	–	–	o		
5.2.1.1	distinguishedName	–	–	c:o.26		
5.2.1.2	nonSpecificForm	–	–	c:o.26		
5.2.1.3	localDistinguishedName	–	–	c:o.26		
5.2.2	attributeMeasureList	–	–	o		
5.2.2.1	attributeId	–	–	c:m		
5.2.2.2	attributeValue	–	–	c:o		
5.2.2.3	timeStamp	–	–	c:o		
5.2.2.4	suspectFlag	–	Default FALSE	c:o		

Table G.5 – Notification support *(concluded for Index 5)*

Index 5 Subindex	Notification field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
5.3	algorithmOutputs	{summ-att 1}	–	m		
5.3.1	attributeId	–	–	m		
5.3.2	algorithmOutput	–	–	m		
5.3.2.1	integer	–	–	o.27		
5.3.2.2	real	–	–	o.27		
5.4	algorithmParameters	{summ-att 2}	–	o		
5.4.1	integer	–	–	c:o.28		
5.4.2	real	–	–	c:o.28		
5.5	incompleteScan	{summ-att 30}	–	o		
5.6	additionalText	{dmi-att 7}	–	o		
5.7	additionalInformation	{dmi-att 6}	–	o		

G.6 Actions

Table G.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateStatisticalReport	{summ-act 3}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

The detailed requirements for the above action for this managed object class are as specified in Table F.6. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for activateScanReport action in Table F.6 for this managed object class if the support is different.

G.7 Parameters

Table G.7 – Parameter support

Index	Paramcter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	_	m		

Annex H

MOCS proforma[12)] for "Mean variance scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

H.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

H.1.1 Instructions for completing the MOCS proforma to produce a MOCS[13)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

H.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

H.2 Statement of conformance to the managed object class

Table H.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	meanVarianceScanner	{summ-mo 9}		

12) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

13) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in Table H.1 is no, the supplier of the implementation shall fill in the actual class support Table H.2.

Table H.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

H.3 Packages

Table H.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotificationPackage	{m3100-pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	homogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	scopedSelectionPackage	{summ-pkg 10}	–	o.29		
17	timingSelectionPackage	{summ-pkg 13}	–	o		
18	managedObjectInstanceSelectionPackage	{summ-pkg 4}	–	o.29		
19	ensemblePackage	–	–	m		
20	meanScannerPackage	–	–	m		
21	meanVarianceScannerPackage	–	–	m		

c1: if H.3/3a or H.3/5a or H.3/6a or H.3/7a or H.3/8a or H.3/9a or H.3/10a or H.3/11a or H.3/12a or H.3/13a or H.3/15a or H.3/16a or H.3/17a or H.3/18a then m else –

c2: if H.1/1b then – else m

c3: if H.3/6a or H.3/7a or H.3/8a or H.3/9a then m else –

H.4 Attributes

Table H.4 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	_	m		m		x	
2	nameBinding	{dmi-att 63}	_	o		m		c4	
3	packages	{dmi-att 66}	_	c5		c6		c7	
4	allomorphs	{dmi-att 50}	_	c8		c9		_	
5	scannerId	{moa-att 25}	_	o		m		x	
6	granularityPeriod	{moa-att 23}	_	m		m		m	
7	administrativeState	{dmi-att 31}	_	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	_	c12		c12		c12	
11	startTime	{dmi-att 68}	_	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	_	o		c16		x	
16	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
17	baseManagedObject	{summ-att 3}	_	c18		c18		c18	
18	scope	{summ-att 25}	_	c18		c18		c18	
19	scanningFilter	{summ-att 24}	_	c18		c18		c18	
20	beginTimeOffset	{summ-att 4}	_	c19		c19		c19	
21	endTimeOffset	{summ-att 7}	_	c19		c19		c19	
22	timeAttributeIdentifier	{summ-att 28}	_	c19		c19		c19	
23	objectList	{summ-att 12}	_	c20		c20		c20	
24	numericAttributeIdList	{summ-att 11}	_	m		m		m	
25	suppressObjectInstance	{summ-att 26}	_	m		m		m	

(continued on next page)

Table H.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	–		–		c17		
17	–		–		c4		
18	–		–		c4		
19	–		–		c18		
20	–		–		c4		
21	–		–		c4		
22	–		–		c4		
23	c20		c20		c4		
24	m		m		c4		
25	–		–		c4		

c4: if H.1/1b then x else –
c5: if H.3/2a then o else –
c6: if H.3/2a then m else –
c7: if H.3/2a then x else –
c8: if H.3/3a then o else –
c9: if H.3/3a then m else –
c10: if H.3/5a then x else –
c11: if H.3/10a then m else –
c12: if H.3/10a then m else –
c13: if H.3/6a then m else –
c14: if H.3/7a then m else –
c15: if H.3/8a then m else –
c16: if H.3/9a then m else –
c17: if H.3/15a then m else –
c18: if H.3/16a then m else –
c19: if H.3/17a then m else –
c20: if H.3/18a then m else –

H.5 Notifications

Table H.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		Additional information
					Confirmed	Non-confirmed	
1	objectCreation	{dmi-not 6}	_	c21			
2	objectDeletion	{dmi-not 7}	_	c21			
3	attributeValueChange	{dmi-not 1}	_	c22			
4	stateChange	{dmi-not 14}	_	c23			
5	statisticalReport	{summ-not 3}	_	m			
c21: if II.5/11a then m else – c22: if H.5/12a then m else – c23: if H.5/13a then m else –							

The detailed requirements for objectCreation, objectDeletion, attributeValueChange and stateChange notifications for this managed object class are as specified in Table D.5. The detailed requirements for staticalReport notification for this managed object class are as specified in Table G.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for objectCreation, objectDeletion, attributeValueChange and stateChange notifications in Table D.5 and staticalReport notification in Table G.5 for this managed object class if the support is different.

H.6 Actions

Table H.6 – Action support

Index	Action type template label	Value of object identifier for action-type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateStatisticalReport	{summ-act 2}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

The detailed requirements for the above action for this managed object class are as specified in Table F.6. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for activateScanReport action in Table F.6 for this managed object class if the support is different.

H.7 Parameters

Table H.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex I

MOCS proforma[14)] for "Min max scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

I.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

I.1.1 Instructions for completing the MOCS proforma to produce a MOCS[15)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

I.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this Annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

I.2 Statement of conformance to the managed object class

Table I.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	minMaxScanner	{summ-mo 10}		

14) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

15) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in Table I.1 is no, the supplier of the implementation shall fill in the actual class support Table I.2.

Table I.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

I.3 Packages

Table I.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotificationPackage	{m3100-pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	homogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	scopedSelectionPackage	{summ-pkg 10}	–	o.30		
17	timingSelectionPackage	{summ-pkg 13}	–	o		
18	managedObjectInstanceSelectionPackage	{summ-pkg 4}	–	o.30		
19	ensemblePackage	–	–	m		
20	minMaxScannerPackage	–	–	m		
21	meanCalculationPackage	{summ-pkg 1}	–	o		

c1: if I.3/3a or I.3/5a or I.3/6a or I.3/7a or I.3/8a or I.3/9a or I.3/10a or I.3/11a or I.3/12a or I.3/13a or I.3/15a or I.3/16a or I.3/17a or I.3/18a or I.3/21a then m else –

c2: if I.1/1b then – else m

c3: if I.3/6a or I.3/7a or I.3/8a or I.3/9a then m else –

I.4 Attributes

Table I.4 – Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by Cretae		Get		Replace	
				Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	_	m		m		x	
2	nameBinding	{dmi-att 63}	_	o		m		c4	
3	packages	{dmi-att 66}	_	c5		c6		c7	
4	allomorphs	{dmi-att 50}	_	c8		c9		–	
5	scannerId	{moa-att 25}	_	o		m		x	
6	granularityPeriod	{moa-att 23}	_	m		m		m	
7	administrativeState	{dmi-att 31}	_	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	_	c12		c12		c12	
11	startTime	{dmi-att 68}	_	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	_	o		c16		x	
16	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
17	baseManagedObject	{summ-att 3}	_	c18		c18		c18	
18	scope	{summ-att 25}	_	c18		c18		c18	
19	scanningFilter	{summ-att 24}	_	c18		c18		c18	
20	beginTimeOffset	{summ-att 4}	_	c19		c19		c19	
21	endTimeOffset	{summ-att 7}	_	c19		c19		c19	
22	timeAttributeIdentifier	{summ-att 28}	_	c19		c19		c19	
23	objectList	{summ-att 12}	_	c20		c20		c20	
24	numericAttributeIdList	{summ-att 11}	_	m		m		m	
25	suppressObjectInstance	{summ-att 26}	_	m		m		m	

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Table I.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	–		–		c17		
17	–		–		c4		
18	–		–		c4		
19	–		–		c18		
20	–		–		c4		
21	–		–		c4		
22	–		–		c4		
23	c20		c20		c4		
24	m		m		c4		
25	–		–		c4		

c4: if I.1/1b then x else –
c5: if I.3/2a then o else –
c6: if I.3/2a then m else –
c7: if I.3/2a then x else –
c8: if I.3/3a then o else –
c9: if I.3/3a then m else –
c10: if I.3/5a then x else –
c11: if I.3/10a then m else –
c12: if I.3/10a then m else –
c13: if I.3/6a then m else –
c14: if I.3/7a then m else –
c15: if I.3/8a then m else –
c16: if I.3/9a then m else –
c17: if I.3/15a then m else –
c18: if I.3/16a then m else –
c19: if I.3/17a then m else –
c20: if I.3/18a then m else –

I.5 Notifications

Table I.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		
					Confirmed	Non-confirmed	Additional information
1	objectCreation	{dmi-not 6}	_	c21			
2	objectDeletion	{dmi-not 7}	_	c21			
3	attributeValueChange	{dmi-not 1}	_	c22			
4	stateChange	{dmi-not 14}	_	c23			
5	statisticalReport	{summ-not 3}	_	m			
c21: if I.5/11a then m else – c22: if I.5/12a then m else – c23: if I.5/13a then m else –							

The detailed requirements for objectCreation, objectDeletion, attributeValueChange and stateChange notifications for this managed object class are as specified in Table D.5. The detailed requirements for staticalReport notification for this managed object class are as specified in Table G.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for objectCreation, objectDeletion, attributeValueChange and stateChange notifications in Table D.5 and staticalReport notification in Table G.5 for this managed object class if the support is different.

I.6 Actions

Table I.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateStatisticalReport	{summ-act 3}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

The detailed requirements for the above action for this managed object class are as specified in Table F.6. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for activateScanReport action in Table F.6 for this managed object class if the support is different.

I.7 Parameters

Table I.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex J

MOCS proforma[16)]
for "Percentile scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

J.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

J.1.1 Instructions for completing the MOCS proforma to produce a MOCS[17)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

J.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-att	joint-iso-ccitt ms(9) function(2) part13(13) attribute(7)
summ-not	joint-iso-ccitt ms(9) function(2) part13(13) notification(10)
summ-pkg	joint-iso-ccitt ms(9) function(2) part13(13) package(4)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)
moa-pkg	joint-iso-ccitt ms(9) function(2) part11(11) package(4)
m3100-pkg	ccitt recommendation(0) m(13) gnm(3100) m3100InformationModel(0) package(4)

The notations used in the Status and Support columns are specified in B.1.3.

J.2 Statement of conformance to the managed object class

Table J.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	percentileScanner	{summ-mo 11}		

16) **Copyright release for MOCS proforma**

Users of this Recommendation | International Standard may freely reproduce the MOCS proforma in this annex so that it can be used for its intended purpose, and may further publish the completed MOCS.

17) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

If the answer to the actual class question in Table J.1 is no, the supplier of the implementation shall fill in the actual class support Table J.2.

Table J.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

J.3 Packages

Table J.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi-pkg 16}	–	c1		
3	allomorphicPackage	{dmi-pkg 17}	–	c2		
4	scannerPackage	–	–	m		
5	availabilityStatusPackage	{dmi-pkg 22}	–	c3		
6	duration	{dmi-pkg 26}	–	o		
7	dailyScheduling	{dmi-pkg 25}	–	o		
8	weeklyScheduling	{dmi-pkg 29}	–	o		
9	externalScheduler	{dmi-pkg 27}	–	o		
10	periodSynchronizationPackage	{moa-pkg 10}	–	o		
11	createDeleteNotificationPackage	{m3100-pkg 10}	–	o		
12	attributeValueChangeNotificationPackage	{m3100 pkg 4}	–	o		
13	stateChangeNotificationPackage	{m3100-pkg 28}	–	o		
14	homogeneousScannerPackage	–	–	m		
15	timeStampReportPackage	{summ-pkg 13}	–	o		
16	scopedSelectionPackage	{summ-pkg 10}	–	o.31		
17	timingSelectionPackage	{summ-pkg 13}	–	o		
18	managedObjectInstanceSelectionPackage	{summ-pkg 4}	–	o.31		
19	ensemblePackage	–	–	m		
20	percentileScannerPackage	–	–	m		
21	meanCalculationPackage	{summ-pkg 1}	–	o		

c1: if J.3/3a or J.3/5a or J.3/6a or J.3/7a or J.3/8a or J.3/9a or J.3/10a or J.3/11a or J.3/12a or J.3/13a or J.3/15a or J.3/16a or J.3/17a or J.3/18a or J.3/21a then m else –

c2: if J.1/1b then – else m

c3: if J.3/6a or J.3/7a or J.3/8a or J.3/9a then m else –

J.4 Attributes

Table J.4 – Attribute support

Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Set by Create		Get		Replace	
				Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	_	m		m		x	
2	nameBinding	{dmi-att 63}	_	o		m		c4	
3	packages	{dmi-att 66}	_	c5		c6		c7	
4	allomorphs	{dmi-att 50}	_	c8		c9		_	
5	scannerId	{moa-att 25}	_	o		m		x	
6	granularityPeriod	{moa-att 23}	_	m		m		m	
7	administrativeState	{dmi-att 31}	_	m		m		m	
8	operationalState	{dmi-att 35}		x		m		x	
9	availabilityStatus	{dmi-att 33}	off-duty required	c10		c11		c10	
10	periodSynchronizationTime	{moa-att 24}	_	c12		c12		c12	
11	startTime	{dmi-att 68}	_	c13		c13		c13	
12	stopTime	{dmi-att 69}	DMI default	c13		c13		c13	
13	intervalsOfDay	{dmi-att 57}	DMI default	c14		c14		c14	
14	weekMask	{dmi-att 71}	DMI default	c15		c15		c15	
15	schedulerName	{dmi-att 67}	_	o		c16		x	
16	timeStampReportMode	{summ-att 29}	timeStamping Off default	c17		c17		c17	
17	baseManagedObject	{summ-att 3}	_	c18		c18		c18	
18	scope	{summ-att 25}	_	c18		c18		c18	
19	scanningFilter	{summ-att 24}	_	c18		c18		c18	
20	beginTimeOffset	{summ-att 4}	_	c19		c19		c19	
21	endTimeOffset	{summ-att 7}	_	c19		c19		c19	
22	timeAttributeIdentifier	{summ-att 28}	_	c19		c19		c19	
23	objectList	{summ-att 12}	_	c20		c20		c20	
24	numericAttributeIdList	{summ-att 11}	_	m		m		m	
25	suppressObjectInstance	{summ-att 26}	_	m		m		m	
26	configurablePCT	{moa-att 0}	_	m		m		m	

(continued on next page)

Table J.4 *(concluded)* **– Attribute support**

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		c4		
8	–		–		x		
9	c10		c10		c10		
10	–		–		c4		
11	c13		c13		c13		
12	–		–		c13		
13	c14		c14		c14		
14	c15		c15		c15		
15	–		–		x		
16	–		–		c17		
17	–		–		c4		
18	–		–		c4		
19	–		–		c18		
20	–		–		c4		
21	–		–		c4		
22	–		–		c4		
23	c20		c20		c4		
24	m		m		c4		
25	–		–		c4		
26	–		–		c4		

c4: if J.1/1b then x else –
c5: if J.3/2a then o else –
c6: if J.3/2a then m else –
c7: if J.3/2a then x else –
c8: if J.3/3a then o else –
c9: if J.3/3a then m else –
c10: if J.3/5a then x else –
c11: if J.3/10a then m else –
c12: if J.3/10a then m else –
c13: if J.3/6a then m else –
c14: if J.3/7a then m else –
c15: if J.3/8a then m else –
c16: if J.3/9a then m else –
c17: if J.3/15a then m else –
c18: if J.3/16a then m else –
c19: if J.3/17a then m else –
c20: if J.3/18a then m else –

J.5 Notifications

Table J.5 – Notification support

Index	Notification type template label	Value of object identifier for notification type	Constraints and values	Status	Support		
					Confirmed	Non-confirmed	Additional information
1	objectCreation	{dmi-not 6}	_	c21			
2	objectDeletion	{dmi-not 7}	_	c21			
3	attributeValueChange	{dmi-not 1}	_	c22			
4	stateChange	{dmi-not 14}	_	c23			
5	statisticalReport	{summ-not 3}	_	m			
c21: if J.5/11a then m else – c22: if J.5/12a then m else – c23: if J.5/13a then m else –							

The detailed requirements for objectCreation, objectDeletion, attributeValueChange and stateChange notifications for this managed object class are as specified in Table D.5. The detailed requirements for staticalReport notification for this managed object class are as specified in Table G.5. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for objectCreation, objectDeletion, attributeValueChange and stateChange notifications in Table D.5 and staticalReport notification in Table G.5 for this managed object class if the support is different.

J.6 Actions

Table J.6 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateStatisticalReport	{summ-act 3}	1.1	Information	No information syntax	m		No support table required
			1.2	Reply		m		

The detailed requirements for the above action for this managed object class are as specified in Table F.6. For this reason the table is not repeated here. The supplier of the implementation needs to complete a copy of the tables for activateScanReport action in Table F.6 for this managed object class if the support is different.

J.7 Parameters

Table J.7 – Parameter support

Index	Parameter template label	Value of object identifier for parameter	Constraints and values	Status	Support	Additional information
1	scanActionError	{summ-prm 1}	–	m		

Annex K

MOCS proforma[18)] for "Dynamic simple scanner" managed object class

(This annex forms an integral part of this Recommendation | International Standard)

K.1 Introduction

The purpose of this MOCS proforma is to provide a mechanism for a supplier of an implementation of a Recommendation | International Standard which claims conformance to a managed object class, to provide conformance information in a standard form.

K.1.1 Instructions for completing the MOCS proforma to produce a MOCS[19)]

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with ITU-T Rec. X.724 | ISO/IEC 10165-6. The supplier of the implementation shall state which items are supported in the tables below and if necessary provide additional information.

K.1.2 Symbols, abbreviations and terms

The MOCS proforma contained in this annex is comprised of information in tabular form, in accordance with CCITT Rec. X.291 and ISO/IEC 9646-2.

The following abbreviations are used throughout this proforma:

dmi-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
dmi-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) package(4)
summ-mo	joint-iso-ccitt ms(9) function(2) part13(13) managedObjectClass(3)
summ-act	joint-iso-ccitt ms(9) function(2) part13(13) action(9)
moa-att	joint-iso-ccitt ms(9) function(2) part11(11) attribute(7)

The notations used in the Status and Support columns are specified in B.1.3.

K.2 Statement of conformance to the managed object class

Table K.1 – Managed object class support

Index	Managed object class template label	Value of object identifier for class	Support of all mandatory features? (Y/N)	Is the actual class the same as the managed object class to which conformance is claimed? (Y/N)
1	dynamicScanner	{summ-mo 4}		

If the answer to the actual class question in Table K.1 is no, the supplier of the implementation shall fill in the actual class support Table K.2.

Table K.2 – Actual class support

Index	Actual managed object class template label	Value of object identifier for actual class	Additional information

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19) Instructions for completing the MOCS proforma are specified in ITU-T Rec. X.724 | ISO/IEC 10165-6.

K.3 Packages

Table K.3 – Package support

Index	Package template label	Value of object identifier for package	Constraints and values	Status	Support	Additional information
1	topPackage	–	–	m		
2	packagesPackage	{dmi–pkg 16}	–	c1		
3	allomorphicPackage	{dmi–pkg 17}	–	c2		
4	dynamicScannerPackage	–	–	m		
5	dynamicSimpleScannerPackage	–	–	m		

c1: if K.3/3a then m else –
c2: if K.1/1b then – else m

K.4 Attributes

Table K.4 – Attribute support

				Set by Create		Get		Replace	
Index	Attribute template label	Value of object identifier for attribute	Constraints and values	Status	Support	Status	Support	Status	Support
1	objectClass	{dmi-att 65}	–	m		m		x	
2	nameBinding	{dmi-att 63}	–	o		m		c4	
3	packages	{dmi-att 66}	–	c5		c6		c7	
4	allomorphs	{dmi-att 50}	–	c8		c9		–	
5	scannerId	{moa-att 25}	–	o		m		x	
6	administrativeState	{dmi-att 31}	–	m		m		m	
7	operationalState	{dmi-att 35}		x		m		x	

Table K.4 *(concluded)* – Attribute support

	Add		Remove		Set to Default		
Index	Status	Support	Status	Support	Status	Support	Additional information
1	–		–		x		
2	–		–		c4		
3	c7		c7		c7		
4	–		–		–		
5	–		–		x		
6	–		–		c4		
7	–		–		x		

c4: if K.1/1b then x else –
c5: if K.3/2a then o else –
c6: if K.3/2a then m else –
c7: if K.3/2a then x else –
c8: if K.3/3a then o else –
c9: if K.3/3a then m else –

K.5 Notifications

The dynamic simple scanner has no notifications.

K.6 Actions

Table K.5 – Action support

Index	Action type template label	Value of object identifier for action type	Subindex	Information/ Reply	Constraints and values	Status	Support	Additional information
1	activateDynamic SimpleReport	{summ-act 1}	1.1	Information		m		
			1.2	Reply		m		

(continued below)

Table K.5 *(continued)* – **Action support** *(continued for Index 1.1)*

Index 1.1 Subindex	Action field name label	Value of object identifier of attribute type associated with field	Constraints and values	Status	Support	Additional information
1.1.1	scanAttributeIdList	{summ-att 21}	–	m		
1.1.2	numericAttributeIdArray	{summ-att 10}	–	m		
1.1.3	scopedSelection	–	–	m		
1.1.3.1	baseManagedObject	–	–	m		
1.1.3.1.1	distinguishedName	–	–	m		
1.1.3.1.2	nonSpecificForm	–	–	m		
1.1.3.1.3	localDistinguishedName	–	–	m		
1.1.3.2	scope	–	–	m		
1.1.3.3	scanningFilter	–	–	m		
1.1.4	objectList	–	–	m		
1.1.5	suppressObjectInstance	{summ-att 26}	–	m		
1.1.6	onceReportAttributeIdList	{summ-att 16}	–	m		
1.1.7	timeStampReportMode	{summ-att 29}	–	m		

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