

**Information  
technology —  
Open Systems  
Interconnection —  
Structure of  
management  
information:  
Requirements and  
guidelines for  
implementation  
conformance statement  
proformas associated  
with OSI  
management —**

**(ITU-T Rec. X.724(1997) |  
ISO/IEC 10165-6:1997)**

ICS 35.100.70

# National foreword

This British Standard reproduces verbatim ISO/IEC 10165-6:1997 and implements it as the UK national standard. It supersedes BS ISO/IEC 10165-6:1994 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/21, Open Systems Interconnection, Data Management and Open Distributed Processing, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60 000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

### Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO/IEC title page, pages ii to vi, pages 1 to 44 and a back cover.

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

This British Standard, having been prepared under the direction of the DISC Board, was published under the authority of the Standards Board and comes into effect on 15 December 1997

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# Contents

|                         |                    |
|-------------------------|--------------------|
|                         | Page               |
| National foreword       | Inside front cover |
| Foreword                | vi                 |
| Text of ISO/IEC 10165-6 | 1                  |



INTERNATIONAL  
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**Information technology — Open Systems  
Interconnection — Structure of  
management information: Requirements  
and guidelines for implementation  
conformance statement proformas  
associated with OSI management**

*Technologies de l'information — Interconnexion de systèmes ouverts  
(OSI) — Structure des informations de gestion: Exigences et principes  
directeurs pour la mise en œuvre des proformes d'avis de conformité  
associée à la gestion OSI*



Reference number  
ISO/IEC 10165-6:1997(E)

**Contents**

|                                                                                               | Page |
|-----------------------------------------------------------------------------------------------|------|
| Foreword                                                                                      | vi   |
| 1 Scope                                                                                       | 2    |
| 2 Normative references                                                                        | 2    |
| 2.1 Identical Recommendations   International Standards                                       | 3    |
| 2.2 Paired ITU-T Recommendations   International Standards<br>equivalent in technical content | 3    |
| 3 Definitions                                                                                 | 3    |
| 3.1 ASN.1 definitions                                                                         | 3    |
| 3.2 Management framework definitions                                                          | 3    |
| 3.3 Conformance testing methodology definitions                                               | 3    |
| 3.4 Systems management overview definitions                                                   | 3    |
| 3.5 CMIS definitions                                                                          | 3    |
| 3.6 Management information model definitions                                                  | 3    |
| 3.7 Guidelines for the definition of managed objects definitions                              | 3    |
| 3.8 Implementation conformance statements definitions                                         | 3    |
| 3.9 Additional definitions                                                                    | 4    |
| 4 Abbreviations                                                                               | 4    |
| 5 Requirements and guidelines for specification and<br>completion of proformas                | 4    |
| 5.1 Structure of proformas                                                                    | 4    |
| 5.2 General instructions                                                                      | 5    |
| 5.3 Instructions for MCS proforma specification                                               | 7    |
| 5.4 Instructions for MOCS proforma specification                                              | 8    |
| 5.5 Instructions for MIDS proforma specification                                              | 9    |
| 5.6 Instructions for MRCS proforma specification for<br>name bindings                         | 10   |
| 5.7 Instructions for MICS proforma specification                                              | 10   |
| 6 Compliance                                                                                  | 13   |
| Annex A MCS proforma                                                                          | 14   |
| A.1 Introduction                                                                              | 14   |
| A.2 Identification of the implementation                                                      | 14   |
| A.3 Identification of the document in which the management<br>information is defined          | 14   |
| A.4 Management conformance summary                                                            | 15   |
| Annex B MOCS proforma                                                                         | 16   |
| B.1 Introduction                                                                              | 16   |
| B.2 Instructions for completing the MOCS proforma to<br>produce a MOCS                        | 16   |
| B.3 Statement of conformance to the managed<br>object class                                   | 16   |
| B.4 Attributes                                                                                | 17   |
| B.5 Attribute Groups                                                                          | 17   |
| B.6 Actions                                                                                   | 17   |
| B.7 Notifications                                                                             | 18   |
| B.8 Parameters                                                                                | 18   |
| Annex C MIDS (attribute) proforma                                                             | 18   |
| C.1 Attributes                                                                                | 18   |
| C.2 Parameters                                                                                | 19   |
| Annex D MIDS (attribute group) proforma                                                       | 19   |
| D.1 Attribute groups                                                                          | 19   |
| D.2 Parameters                                                                                | 19   |

|                                                                                                          | Page |
|----------------------------------------------------------------------------------------------------------|------|
| Annex E MIDS (action) proforma                                                                           | 19   |
| E.1 Actions                                                                                              | 19   |
| E.2 Parameters                                                                                           | 20   |
| Annex F MIDS (notification) proforma                                                                     | 20   |
| F.1 Notifications                                                                                        | 20   |
| F.2 Parameters                                                                                           | 20   |
| Annex G MRCS proforma for name bindings                                                                  | 20   |
| G.1 Introduction                                                                                         | 20   |
| G.2 Instructions for completing the MRCS proforma for name bindings to produce an MRCS for name bindings | 21   |
| G.3 Statement of conformance to the name binding                                                         | 21   |
| G.4 Parameters                                                                                           | 21   |
| Annex H MICS (attribute) proforma                                                                        | 21   |
| H.1 Attributes                                                                                           | 21   |
| H.2 Parameters                                                                                           | 22   |
| Annex I MICS (attribute group) proforma                                                                  | 22   |
| I.1 Attribute groups                                                                                     | 22   |
| I.2 Parameters                                                                                           | 3    |
| Annex J MICS (action) proforma                                                                           | 22   |
| J.1 Actions                                                                                              | 22   |
| J.2 Parameters                                                                                           | 23   |
| Annex K MICS (notification) proforma                                                                     | 23   |
| K.1 Notifications                                                                                        | 23   |
| K.2 Parameters                                                                                           | 23   |
| Annex L MICS (create and delete) proforma                                                                | 23   |
| L.1 Create and Delete support                                                                            | 23   |
| L.2 Parameters                                                                                           | 24   |
| Annex M Additional informative guidelines for proforma specification                                     | 24   |
| M.1 Introduction                                                                                         | 24   |
| M.2 Table labels and indexing                                                                            | 24   |
| M.3 Extending tables                                                                                     | 24   |
| M.4 Condition statements                                                                                 | 26   |
| M.5 No such characteristics in the managed object class definition                                       | 27   |
| M.6 Abbreviations for object identifiers                                                                 | 27   |
| M.7 Parameter tables                                                                                     | 28   |
| M.8 Action and notification field name labels                                                            | 28   |
| M.9 Guidelines for package support tables                                                                | 28   |
| M.10 When different proformas should be included                                                         | 28   |
| M.11 Minimum conformance requirement                                                                     | 29   |
| M.12 Compatible classes                                                                                  | 30   |
| M.13 MOCS proforma for non-instantiable classes                                                          | 30   |
| M.14 Attributes inherited from top                                                                       | 30   |
| M.15 Interpretation of “m” in status column                                                              | 31   |
| M.16 Guidelines on conditional expressions                                                               | 31   |
| M.17 Multiple MICS proformas of the same type                                                            | 31   |
| M.18 Order of ICS proformas                                                                              | 31   |
| Annex N Additional informative guidelines for completion of proformas                                    | 31   |
| N.1 Introduction                                                                                         | 31   |
| N.2 Use support summary tables to map table numbers                                                      | 32   |

|                                                                                      | Page |
|--------------------------------------------------------------------------------------|------|
| N.3 Support of set by create in manager role                                         | 32   |
| N.4 To claim limited support in manager role                                         | 32   |
| Annex O Example of MCS proforma                                                      | 32   |
| O.1 Introduction                                                                     | 32   |
| O.2 Identification of the implementation                                             | 3    |
| O.3 Identification of the document in which the management information is defined    | 34   |
| O.4 Management conformance summary                                                   | 34   |
| Annex P Example of MICS proforma                                                     | 37   |
| P.1 Introduction                                                                     | 37   |
| P.2 Instructions                                                                     | 37   |
| P.3 Example                                                                          | 37   |
| Annex Q Example of MOCS proforma                                                     | 40   |
| Q.1 Introduction                                                                     | 40   |
| Q.2 Instructions for completing the MOCS proforma to produce a MOCS                  | 40   |
| Q.3 Statement of conformance to the managed object class                             | 40   |
| Q.4 Attributes                                                                       | 41   |
| Q.5 Attribute Groups                                                                 | 42   |
| Q.6 Actions                                                                          | 42   |
| Q.7 Notifications                                                                    | 42   |
| Q.8 Parameters                                                                       | 44   |
| Annex R Example of MRCS proforma for name binding                                    | 44   |
| R.1 Introduction                                                                     | 44   |
| R.2 Instructions for completing the MRCS proforma for name binding to produce a MRCS | 44   |
| R.3 Statement of conformance to the name binding                                     | 44   |
| R.4 Parameters                                                                       | 44   |
| Table A.1 — PICS support summary                                                     | 15   |
| Table A.2 — MOCS support summary                                                     | 16   |
| Table A.3 — MRCS support summary                                                     | 16   |
| Table A.4 — MICS support summary                                                     | 16   |
| Table B.1 — Managed object class support                                             | 16   |
| Table B.2 — Actual class support                                                     | 16   |
| Table B.3 — Attribute support                                                        | 17   |
| Table B.4 — Attribute group support                                                  | 17   |
| Table B.5 — Action support                                                           | 17   |
| Table B.6 — Notification support                                                     | 18   |
| Table B.7 — Parameter support                                                        | 18   |
| Table C.1 — Attribute support                                                        | 18   |
| Table C.2 — Parameter support                                                        | 19   |
| Table D.1 — Attribute group support                                                  | 19   |
| Table D.2 — Parameter support                                                        | 19   |
| Table E.1 — Action support                                                           | 19   |
| Table E.2 — Parameter support                                                        | 20   |
| Table F.1 — Notification support                                                     | 20   |
| Table F.2 — Parameter support                                                        | 20   |
| Table G.1 — Name binding support                                                     | 21   |
| Table G.2 — Parameter support                                                        | 21   |
| Table H.1 — Attribute support                                                        | 21   |
| Table H.2 — Parameter support                                                        | 22   |

|                                                          | Page |
|----------------------------------------------------------|------|
| Table I.1 — Attribute group support                      | 22   |
| Table I.2 — Parameter support                            | 22   |
| Table J.1 — Action support                               | 22   |
| Table J.2 — Parameter support                            | 23   |
| Table K.1 — Notification support                         | 23   |
| Table K.2 — Parameter support                            | 23   |
| Table L.1 — MICS (create and delete) proforma            | 23   |
| Table L.2 — Parameter support                            | 24   |
| Table M.1 — Example of index                             | 24   |
| Table M.2 — Example of subindex                          | 24   |
| Table M.3 — Example of wide table                        | 24   |
| Table M.4 — Example of extended table                    | 25   |
| Table M.5 — Example of conditions                        | 26   |
| Table M.6 — Example of nested conditions                 | 27   |
| Table M.7 — Example of group of related options          | 27   |
| Table M.8 — Package support table                        | 28   |
| Table O.1 — Roles                                        | 35   |
| Table O.2 — Systems management functional units          | 35   |
| Table O.3 — Manager role minimum conformance requirement | 35   |
| Table O.4 — Agent role minimum conformance requirement   | 36   |
| Table O.5 — Logging of event records                     | 36   |
| Table O.6 — PICS support summary                         | 36   |
| Table O.7 — MOCS support summary                         | 36   |
| Table O.8 — MRCS support summary                         | 37   |
| Table O.9 — MICS support summary                         | 37   |
| Table P.1 — Notification support                         | 37   |
| Table P.2 — Attribute support                            | 38   |
| Table P.3 — Action support                               | 39   |
| Table P.4 — Create and delete support                    | 40   |
| Table Q.1 — Managed object class support                 | 40   |
| Table Q.2 — Actual class support                         | 40   |
| Table Q.3 — Attribute support                            | 41   |
| Table Q.4 — Attribute group support                      | 42   |
| Table Q.5 — Action support                               | 42   |
| Table Q.6 — Notification support                         | 42   |
| Table Q.7 — Parameter support                            | 44   |
| Table R.1 — Name binding support                         | 44   |
| Table R.2 — Parameter support                            | 44   |

**Descriptors:** Data processing, information interchange, network interconnection, open systems interconnection, application layer, management, information.

## 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.

International Standard ISO/IEC 10165-6 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 Recommendation X.724.

This second edition cancels and replaces the first edition (ISO/IEC 10165-6:1994), which has been technically revised.

ISO/IEC 10165 consists of the following parts, under the general title *Information technology — Open Systems Interconnection — Structure of management information*:

- *Part 1: Management Information Model;*
- *Part 2: Definition of management information;*
- *Part 4: Guidelines for the definition of managed objects;*
- *Part 5: Generic management information;*
- *Part 6: Requirements and guidelines for implementation conformance statement proformas associated with OSI management;*
- *Part 7: General relationship model.*

Annex A to Annex L form an integral part of this part of ISO/IEC 10165. Annex M to Annex R are for information only.

## Introduction

This Recommendation | International Standard includes the modifications necessary to 10165-6 to cover all types of conformance claims associated with management information and an overview of the situation related to ICS proformas. The major part of the modifications are necessary for claims of conformance for systems supporting management information in the manager role. This Recommendation | International Standard also includes an issues list related to manager role ICS proformas.

The modifications are an attempt to satisfy the following requirements:

- the addition of manager role proformas should have minimal impact on existing ICS proformas;
- the proformas must be flexible enough for all possible conforming implementations;
- the proformas should be as compact as possible;
- the proformas should be easy to reference from Profile Requirements Lists;

## Related work

The following related work is being performed to provide the complete framework for manager role ICS proformas:

- Guidance are given in 10040 – SMO on how specifications defining management information should define conformance requirements in the conformance clause.
- The basis for all claims of conformance to a specification are defined in the conformance clause of this Specification. For Specifications defining management information (including SMFs), which can be supported by a system in the manager role, the conformance clauses are being amended to contain a requirement that an implementation identifies the management information it supports in the manager role.
- Standards defining management information include or reference an MCS proforma. A supplier of an implementation should be able to use the MCS proforma to provide a summary of the management information supported in the agent role and/or the manager role.
- Standards defining management information are being amended to provide MICS proformas for all management information defined in those standards.

## Current situation

Guidelines for the definition of proformas for conformance claims are defined in this Recommendation | International Standard. These guidelines are currently restricted to agent role conformance claims. Guidelines are given for MCS, MOCS and MRCS proformas.

The MIDS proforma defined in this Recommendation | International Standard cannot be used for conformance claims, it is only used as a building block in the construction of a MOCS proforma.

ICS proformas following these guidelines are currently being developed as amendments to standards defining management information. New standards are expected to include the proformas as they are developed.

Conformance claims for systems supporting the manager role cannot be made using the current MCS, MOCS and MRCS proformas. Manager role proformas are being added in the current standards to allow claims of conformance in the manager role. These proformas and guidelines to use them should be documented in this

Recommendation | International Standard to ensure consistent use of manager role ICS proformas in all systems management standards.

## Structure for ICS proformas related to OSI Management

A conformance claim for a system supporting management information can be structured in two levels. The first level is a summary of the implemented management information. This information is given in the MCS. The second level is the support of individual management information. This is given in MOCS, MICS and MRCS.

A MICS proforma (Management Information Conformance Statement) must be defined together with any definition of management information if claims in the manager role should be possible. The proforma can be used by an implementation to provide information on the options implemented. It can also be used as the basis for Profile Requirements Lists used in the definition of profiles.

For a system implementing agent role, the claim should include MCS, MOCS and MRCS. For a system implementing manager role, the claim should include MCS and MICS.

The conformance clause of a Specification defining management information should reference an MCS proforma where all requirements for support are explicitly defined. The conformance clause must identify the mandatory requirements and any optional requirements.

Proformas for conformance claims must in general be sufficiently flexible to enable all possible conformance claims allowed by this Specification. For standards defining management information some guidelines for the structure should be given in this Recommendation | International Standard (and in CCITT Rec. X.701 | ISO/IEC 10040).

The MICS proformas include an Additional Information column, that could be used to give information about how the management information is supported. The use of the Additional Information column is described in 5.2.

## 1 Scope

This Recommendation | International Standard provides requirements and guidelines for Management Conformance Summary (MCS) proformas, Management Information Conformance Statement (MICS) proformas, Managed Object Conformance Statement (MOCS) proformas, Management Information Definition Statement (MIDS) proformas, and Managed Relationship Conformance Statement (MRCS) proformas and for the specification of these proformas. These proformas are applicable to standards for OSI management including definitions of managed objects. The MCS proforma provides a summary of PICS proforma, MICS proforma, MOCS proforma and MRCS proforma. The PICS is a statement made by an implementor to claim conformance to a protocol specification. The MICS is a statement made by an implementor to claim conformance to management information in the manager role. The MOCS is a statement made by an implementor to claim conformance to a managed object class definition. The MRCS is a statement made by an implementor to claim conformance to a managed relationship definition, such as a name binding definition.

## 2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and International Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and International Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

### 2.1 Identical Recommendations | International Standards

— CCITT Recommendation X.701 (1992) | ISO/IEC 10040:1992, *Information technology — Open Systems Interconnection — Systems management overview*.

— CCITT Recommendation X.720 (1992) | ISO/IEC 10165-1:1993, *Information technology — Open Systems Interconnection — Structure of management information: Management Information Model*.

— CCITT Recommendation X.722 (1992) | ISO/IEC 10165-4:1992, *Information technology — Open Systems Interconnection — Structure of management information: Guidelines for the definition of managed objects*.

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

— CCITT Recommendation X.208 (1988), *Specification of Abstract Syntax Notation One (ASN.1)*.

ISO/IEC 8824:1990, *Information technology — Open Systems Interconnection — Specification of Abstract Syntax Notation One (ASN.1)*.

— CCITT Recommendation X.290 (1992), *OSI conformance testing methodology and framework for protocol Recommendations for CCITT applications — General concepts*.

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

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

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

— ITU-T Recommendation X.296 (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.*

— CCITT Recommendation X.700 (1992), *Management framework for Open Systems Interconnection (OSI) for CCITT applications.*

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

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

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

### 3 Definitions

For the purposes of this Recommendation | International Standard, the following definitions apply.

#### 3.1 ASN.1 definitions

This Recommendation | International Standard makes use of the following term defined in CCITT Rec. X.208 and ISO/IEC 8824:

— object identifier.

#### 3.2 Management framework definitions

This Recommendation | International Standard makes use of the following term defined in CCITT Rec. X.700 and ISO/IEC 7498-4:

— managed object.

#### 3.3 Conformance testing methodology definitions

This Recommendation | International Standard makes use of the following terms defined in CCITT Rec. X.290 and ISO/IEC 9646-1:

- a) Protocol Implementation Conformance Statement (PICS);
- b) PICS proforma;
- c) system conformance statement.

#### 3.4 Systems management overview definitions

This Recommendation | International Standard makes use of the following terms defined in CCITT Rec. X.701 ISO/IEC 10040:

- a) managed object class;
- b) managed object conformance statement;
- c) Management Information Conformance Statement (MICS);
- d) MICS proforma;
- e) MOCS proforma;
- f) notification.

#### 3.5 CMIS definitions

This Recommendation | International Standard makes use of the following term defined in CCITT Rec. X.710 and ISO/IEC 9595:

— attribute.

#### 3.6 Management information model definitions

This Recommendation | International Standard makes use of the following terms defined in CCITT Rec. X.720 | ISO/IEC 10165-1:

- a) action;
- b) actual class;
- c) attribute group;
- d) behaviour;
- e) characteristic;
- f) conditional package;
- g) instantiation;
- h) name binding;
- i) package;
- j) parameter;
- k) superclass;
- l) uninstantiable managed object class.

#### 3.7 Guidelines for the definition of managed objects definitions

This Recommendation | International Standard makes use of the following term defined in CCITT Rec. X.722 | ISO/IEC 10165-4:

— template.

#### 3.8 Implementation conformance statements definitions

This Recommendation | International Standard makes use of the following terms defined in ITU-T Rec. X.296 and ISO/IEC 9646-7:

- a) (ICS) item;
- b) (ICS) question;
- c) status (value);
- d) (support) answer.

3.9 Additional definitions

For the purposes of this Recommendation | International Standard, the following definitions apply.

3.9.1 managed relationship conformance summary (MRCS)

a statement by a supplier of a managed relationship implementation, stating the capabilities and options which have been implemented, and any features which have been omitted

3.9.2 management conformance statement (MCS)

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

3.9.3 management information definition statement (MIDS) proforma

a document, in the form of a questionnaire which is used in the construction of a MOCS proforma

3.9.4 MCS proforma

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

3.9.5 MRCS proforma

a document, in the form of a questionnaire that when completed by the supplier of an implementation becomes the MRCS

3.9.6 proforma specification

standardized procedures for constructing a questionnaire that when completed by the supplier of an implementation becomes an implementation conformance statement

4 Abbreviations

|      |                                                  |
|------|--------------------------------------------------|
| GDMO | Guidelines for the Definition of Managed Objects |
| ICS  | Implementation Conformance Statement             |
| MCS  | Management Conformance Summary                   |
| MICS | Management Information Conformance Statement     |
| MIDS | Management Information Definition Statement      |
| MOCS | Managed Object Conformance Statement             |
| MRCS | Managed Relationship Conformance Statement       |
| PICS | Protocol Implementation Conformance Statement    |

5 Requirements and guidelines for specification and completion of proformas

Proforma specifications shall follow the style as documented in the annexes of this Recommendation | International Standard. Proforma specifications shall provide the information required by this Recommendation | International Standard. Additional tables may be included for other information, if needed.

5.1 Structure of proformas

The annexes of this Recommendation | International Standard specify the formats for MCS proforma, MICS proforma, MOCS proforma, MIDS proforma and MRCS proforma for name bindings. Thus, proforma specifications are provided by the annexes of this Recommendation | International Standard. MIDS proforma is used to construct MOCS proforma. The supplier of an implementation then fills in the blanks in the proforma to produce MCS, MICS, MOCS and MRCS for name bindings. Also, this Recommendation | International Standard specifies the format of MRCS proforma for name binding and that are summarized in an MCS proforma.

There are three levels of documentation pertaining to MCS, namely:

- a) guidelines or Recommendation | International Standard tools for the production of MCS proformas;
- b) an MCS proforma, associated with a standard related to OSI management, which is to be filled in by a supplier of the implementation and when filled in is an MCS — see c) below;

- c) an MCS prepared by a supplier of the implementation as part of a conformance claim to a standard related to OSI management.

It is a) that is the subject of this

Recommendation | International Standard. MCS proformas b) will be expected to be produced in accordance with the MCS proforma specification in this Recommendation | International Standard.

There are three levels of documentation pertaining to MICS, namely:

- a) guidelines or Recommendation | International Standard tools for the production of MICS proformas;
- b) a MICS proforma, associated with a standard related to OSI management, which is to be filled in by a supplier of the implementation and when filled in is an MICS — see c) below;
- c) a MICS prepared by a supplier of the implementation as part of a conformance claim to a standard related to OSI management.

It is a) that is the subject of this

Recommendation | International Standard. MICS proformas b) will be expected to be produced in accordance with the MICS proforma specification in this Recommendation | International Standard.

Similarly, there are three levels of documentation pertaining to MOCS, namely:

- a) guidelines or Recommendation | International Standard tools for the production of MOCS proformas;
- b) a MOCS proforma, associated with a managed object class definition, which is to be filled in by a supplier of the implementation and when filled in is a MOCS — see c) below;
- c) a MOCS prepared by a supplier of the implementation as part of a conformance claim to a managed object definition.

It is a) that is the subject of this

Recommendation | International Standard. MOCS proformas b) will be expected to be produced in accordance with the MOCS proforma specification in this Recommendation | International Standard. Uninstantiable managed object classes do not require MOCS proformas.

In addition, there are two levels of documentation pertaining to MIDS, namely:

- a) guidelines or Recommendation | International Standard tools for the production of MIDS proformas;
- b) a MIDS proforma, which is used to construct a MOCS proforma.

It is a) that is the subject of this

Recommendation | International Standard. MIDS proformas b) will be expected to be produced in accordance with the MIDS proforma specification in this Recommendation | International Standard.

In addition, there are three levels of documentation pertaining to MRCS for name bindings, namely:

- a) guidelines or Recommendation | International Standard tools for the production of MRCS proformas for name bindings;
- b) an MRCS proforma for name bindings, associated with a name binding definition, which is to be filled in by a supplier of the implementation and when filled in is an MRCS — see c) below;
- c) an MRCS for name bindings prepared by a supplier of the implementation as part of a conformance claim to a name binding definition.

It is a) that is the subject of this

Recommendation | International Standard. MRCS proformas for name bindings b) will be expected to be produced in accordance with the MRCS proforma specification for name bindings in this Recommendation | International Standard.

## 5.2 General instructions

This Recommendation | International Standard provides instructions to construct MCS proforma specification, MICS proforma specification, MOCS proforma specification, MIDS proforma specification and MRCS proforma specification for name bindings. The annexes of this Recommendation | International Standard contain specification for the MCS proforma, MICS proforma, MOCS proforma, MIDS proforma, and MRCS proforma for name bindings in a tabular form, which uses the status and support columns as well as the notation used for filling in these columns introduced in CCITT Rec. X.291 and ISO/IEC 9646-2.

The purpose of the MCS proforma, MICS proforma, MOCS proforma, MIDS proforma, and MRCS proforma for name bindings is to provide a mechanism whereby a supplier of an implementation including OSI management may provide conformance information in a standard form. The purpose of the Annex A to Annex R is to provide guidance for proforma specifications.

Annex A contains a proforma for the MCS proforma. Annex B contains a proforma for the MOCS proforma. Annex C, Annex D, Annex E and Annex F contain proformas for the MIDS proforma for attributes, attribute groups, actions, and notifications, respectively. Annex G contains a proforma for the MRCS proforma for name bindings. Annex H, Annex I, Annex J, Annex K and Annex L contain proformas for the MICS proforma for attributes, attribute groups, actions, notifications and create and delete, respectively. Annex M contains additional informative guidelines for proforma specification. Annex N contains additional informative guidelines for completion of proformas. Annex O provides an example of a MCS proforma specification, which is to be filled in by a supplier of an implementation. Annex P provides an example of MICS proforma specifications. Annex Q provides an example of a MOCS proforma specification, which is to be filled in by a supplier of an implementation. Annex R provides an example of a MRCS proforma specification for name binding, which is to be filled in by a supplier of an implementation.

The following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 and ISO/IEC 9646-7 are used for the status value column:

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

NOTE 1 The notations “c”, “m”, “o” and “x” are prefixed by a “c:” when nested under a conditional or optional item of the same table.

NOTE 2 The notation “o” may be suffixed by “.n” (where “n” is a unique number) for mutually exclusive or selectable options among a set of status values. The requirement for this numbered set shall be explicitly stated, preferably in a footnote to the relevant table.

The following common notations, defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 and ISO/IEC 9646-7 are used for the support answer column:

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

In the status column, the static requirements shall be stated. The status will be as follows:

- m For characteristics contained in mandatory packages or in conditional packages if the GDMO condition is always true.
- o For characteristics of conditional packages with GDMO conditions that indicate static optionality, e.g. “if instance supports it”.
- cn For all other conditions, where “n” is a unique integer and “cn” is a reference to a conditional status expression as defined in CCITT Rec. X.291 and ISO/IEC 9646-2 and ITU-T Rec. X.296 and ISO/IEC 9646-7. (One possible form of this conditional status expression uses the answer to a textual question, such as “Does the implementation permit instantiation when {GDMO condition}?”). However, when more precise notation can be used, the use of such a textual question is not recommended.).
- x For characteristic explicitly prohibited in the definition.
- For characteristics that are not mentioned in the definition.

When the status for a conditional package is or resolves to “m”, then the characteristics of the package shall be implemented; and the characteristics are instantiated according to the dynamic rules specified in the GDMO condition associated with the package.

The “Constraints and values” columns of the tables in the annexes (which are to be filled in in the proforma specification if applicable) contain the constraints and values of the specific management information (e.g. name binding, attribute, attribute group, action, action field, notification, and notification field).

The “Additional information” columns of the tables in the annexes (which are to be filled in by the supplier of the implementation if applicable) contain additional information that is necessary for the use of the tables regarding support of the specific management information (e.g. name binding, attribute, attribute group, action, action field, notification, and notification field). This information may include, **if applicable**:

- a) any constraints regarding support of the management information;
- b) specific values which are supported;
- c) index information to reference an attribute, attribute group, action or notification of another MOCS, completed by the supplier of the implementation;

- d) mapping of the values of the management information (available at the managed object boundary) to values visible at other interfaces to the underlying resource (of which the management information is an abstraction);
- e) clarification of how constraints are met;
- f) supported parameters;
- g) sufficient information to reference the details of parameter(s), if a particular parameter or parameters are carried in a field of an action or notification;
- h) implementation specific constraints of permitted, required, default values and matching rules for attributes;
- i) implementation specific constraints of permitted and required values for action and notification arguments;
- j) identify the object classes for which the management operation is supported (relevant in MICS proformas);
- k) any restrictions in the support for the mapping of management operations to protocol interactions (relevant in MICS proformas);
- l) the conditions under which operations are issued and action taken on receipt of the notifications (relevant for MICS proformas).

When management information available at a managed object boundary is claimed to correspond to information available via another interface, then how the value of a piece of management information available at the managed object boundary is related to the information available at the other interface shall be specified in one of the following ways:

- a) specified by the standards and referenced as a footnote to the entry in the proforma, and therefore be part of what the supplier of the implementation indicates support of by filling in the support column;
- b) required/recommended by the standards to be specified by the supplier of the implementation; in such cases the proforma includes a footnote to the entry that the supplier of the implementation shall/may state the details of availability in the “Additional information” column;
- c) left unspecified in the proforma specification and by the supplier of the implementation.

Terminology, notation and concepts for conformance statements are described in CCITT Rec. X.290 and ISO/IEC 9646-1, CCITT Rec. X.291 and ISO/IEC 9646-2, and ITU-T Rec. X.296 and ISO/IEC 9646-7. The tables need to provide details of composite parameters to the level of detail that will remove ambiguity for the support of the subparameters. When the size of a proforma table exceeds the size of a page, the table can be either presented in landscape or split into a number of parts. Guidelines on how to split a table are given in the informative Annex H.

### 5.3 Instructions for MCS proforma specification

An MCS identifies an implementation and summarizes the PICS, MOCS and MRCS for which conformance is stated. The MCS proforma is formed by copying the MCS proforma specification in Annex A, and extending the tables of A.4, as required; this may include merging information from multiple other MCS proformas. Multiple MCS proformas can be merged into a single MCS (e.g. when combining proforma from more than one document). It is recommended to include additional tables in an MCS proforma to cover any general conformance requirements in a specification. Guidelines on the use of additional tables can be found in Annex O.

The proforma specification shall have the “Status” columns of all the summary tables filled in according to the base specification requirements. The Status column in these support summary tables is used to indicate whether the supplier of an implementation is required to complete the referenced tables or referenced items. Detailed conformance requirements are specified in the referenced tables or referenced items and are not changed by the value of the support summary Status column. To form an MCS from an MCS proforma a supplier of the implementation shall provide appropriate information in the boxes provided and also fill in the “Support” and, if appropriate, the “Additional information” column of all the summary tables in the MCS proforma. The supplier of the implementation shall also fill in the table numbers of the completed tables which correspond to the table numbers of the identified source document, if the table numbers are different. Refer to CCITT Rec. X.291 and ISO/IEC 9646-2 for instructions for PICS proforma specification. Refer to 5.4 for instructions for MOCS proforma specification. Also, 5.6 provides instructions for MRCS proforma for name bindings.