INTERNATIONAL STANDARD ISO/IEC 10165-4:1992
TECHNICAL CORRIGENDUM 2

Published 2003-02-01

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

Information technology — Open Systems Interconnection — Structure of management information: Guidelines for the definition of managed objects

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Interconnexion de systèmes ouverts — Structures des informations de gestion: Directives pour la définition des objets gérés

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 10165-4:1992 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ICS 35.100.70 **Ref. No. ISO/IEC 10165-4:1992/Cor.2:2003(E)**

Published in Switzerland

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – STRUCTURE OF MANAGEMENT INFORMATION: GUIDELINES FOR THE DEFINITION OF MANAGED OBJECTS

TECHNICAL CORRIGENDUM 2

Revision of GDMO to include ASN.1:1997

1) Subclause 2.1

Apply the following changes:

Replace:

- ITU-T Recommendation X.680 (1995) | ISO/IEC 8824-1:1995, *Information technology – Abstract Syntax Notation One (ASN.1) – Specification of basic notation*.
- ITU-T Recommendation X.681 (1994) | ISO/IEC 8824-2:1995, *Information technology – Abstract Syntax Notation One (ASN.1) – Information object specification*.
- ITU-T Recommendation X.682 (1994) | ISO/IEC 8824-3:1995, *Information technology – Abstract Syntax Notation One (ASN.1) – Constraint specification*.
- ITU-T Recommendation X.683 (1994) | ISO/IEC 8824-4:1995, *Information technology – Abstract Syntax Notation One (ASN.1) – Parameterization of ASN.1 specifications*.
- ITU-T Recommendation X.690 (1994) | ISO/IEC 8825-1:1995, *Information technology – ASN.1 encoding rules – Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)*.
- ITU-T Recommendation X.691 (1995) | ISO/IEC 8825-2:1995, *Information technology – ASN.1 encoding rules – Specification of Packed Encoding Rules (PER)*.

with:

- ITU-T Recommendation X.680 (1997) | ISO/IEC 8824-1:1998, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation*.
- ITU-T Recommendation X.681 (1997) | ISO/IEC 8824-2:1998, *Information technology – Abstract Syntax Notation One (ASN.1): Information object specification.*
- ITU-T Recommendation X.682 (1997) | ISO/IEC 8824-3:1998, *Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification*.
- ITU-T Recommendation X.710 (1997) | ISO/IEC 9595:1998, *Information technology – Open Systems Interconnection – Common Management Information service*.
- ITU-T Recommendation X.711 (1997) | ISO/IEC 9596-1:1998, *Information technology – Open Systems Interconnection – Common Management Information Protocol: Specification*.

2) Subclause 2.2

Remove the following paired references:

- 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.710 (1991), *Common Management Information Service Definition for CCITT Applications.*

  ISO/IEC 9595:1990, *Information technology – Open Systems Interconnection – Common management information service definition.*

– CCITT Recommendation X.711 (1991), *Common Management Information Protocol Specification for CCITT Applications.*

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

3) Subclause 3.7

Replace CCITT Rec. X.208 and ISO/IEC 8824 *with* ITU-T Rec. X.680 | ISO/IEC 8824-1.

4) New subclause 3.8

Insert the following new subclause and renumber the following subclauses accordingly:

3.8 ASN.1 information object class definitions

This Recommendation | International Standard makes use of the following terms defined in ITU-T Rec. X.681 | ISO/IEC 8824-2:

a) information object class;

b) value set field;

c) variable-type.

5) Subclause 6.4

Replace all occurrences of CCITT Rec. X.208 and ISO/IEC 8824 *with* ITU-T Rec. X.680 | ISO/IEC 8824-1.

6) Clause 8

Insert the following paragraph between the title of clause 8 and the title of subclause 8.1:

The GDMO templates defined in this Recommendation | International Standard may be used to specify Action types, Attribute types, Event report types and their associated ASN.1 type definitions, as an alternative to using the Information Object Class definitions specified in ITU-T Rec. X.711 | ISO/IEC 9596-1.

7) Subclause 8.2, *item f)*

Replace both occurrences of CCITT Rec. X.208 and ISO/IEC 8824 *with* ITU-T Rec. X.680 | ISO/IEC 8824-1.

8) Subclause 8.5.1

Replace:

The type specified in a Parameter template is used to fill in an `ANY DEFINED BY x` construct in a management PDU, where `x` is a field in the PDU that carries the object identifier assigned to the parameter.

with:

The type specified in a Parameter template defines the type of the variable-type value set field in an information object class, as defined in ITU-T Rec. X.681 | ISO/IEC 8824-2. This field is carried in a management PDU when that PDU carries the object identifier value assigned to that template in the context specified in that template.

9) Subclause 8.5.1.1.1

Replace:

The context is unambiguously identified by the management PDU if and only if the ANY DEFINED BY construct appears in that PDU exactly once.