INTERNATIONAL STANDARD ISO/IEC 10164-10:1995
TECHNICAL CORRIGENDUM 2

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Information technology — Open Systems Interconnection — Systems Management: Usage metering function for accounting purposes

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Interconnexion de systèmes ouverts (OSI) — Gestion-systèmes: Fonction de comptage d'utilisation aux fins de comptabilité

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to International Standard ISO/IEC 10164-10:1995 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SYSTEMS MANAGEMENT: USAGE METERING FUNCTION FOR ACCOUNTING PURPOSES

TECHNICAL CORRIGENDUM 2

1) Subclause 2.1

Insert the following references alphanumerically:

- 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.690 (1997) | ISO/IEC 8825-1:1998, *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.710 (1997) | ISO/IEC 9595:1998, *Information technology – Open Systems Interconnection – Common management information service.*

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.209 (1990), *Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*

  ISO/IEC 8825:1990, *Information technology – Open Systems Interconnection – Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*
- CCITT Recommendation X.710 (1991), *Common management information service definition for CCITT applications.*

  ISO/IEC 9595:1991, *Information technology – Open Systems Interconnection – Common management information service definition.*
- CCITT Recommendation X.711 (1991), *Common management information protocol specification for CCITT applications.*

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

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3) Subclause 13.1

Replace "CCITT Rec. X.209 | ISO/IEC 8825" *with* "ITU-T Rec. X.690 | ISO/IEC 8825-1".

4) Subclause A.9: UsageMeteringFunction abstract syntax

a) *In the* **IMPORTS FROM Attribute-ASN1Module**, *insert the following before* **ControlStatus**:

"DMI-TYPE-IDENTIFIER,"

b) *Replace the production for* **AuditInfo** *with the following ASN.1 production*:

```
"UMF-AUDIT ::= DMI-TYPE-IDENTIFIER

AuditInfo ::= SEQUENCE {
      service       UMF-AUDIT.&id ({AuditInfoSet}),
      auditDetails  UMF-AUDIT.&Value ({AuditInfoSet} {@.service}) }
AuditInfoSet UMF-AUDIT ::= {...}
"
```

c) *Replace the production for* **ServiceSpecificId** *with the following ASN.1 production*:

```
"UMF-SERVICE ::= DMI-TYPE-IDENTIFIER

ServiceSpecificId ::= SEQUENCE {
      service               UMF-SERVICE.&id ({ServiceSpecificSet}),
      serviceSpecificId     UMF-SERVICE.&Value ({ServiceSpecificSet} {@.service}) }

ServiceSpecificSet UMF-SERVICE ::= {...}
"
```

5) Subclause A.9: UsageMeteringDataInfo abstract syntax

a) *Insert the following before* **EXPORTS**:

```
"IMPORTS
   DMI-TYPE-IDENTIFIER FROM Attribute-ASN1Module
        { joint-iso-itu-t ms(9) smi(3) part2(2) asn1Module(2) 1 };"
```

b) *Replace the production for* **UsageInfo** *with the following ASN.1 production*:

```
"UMF-USAGE ::= DMI-TYPE-IDENTIFIER

UsageInfo ::= SEQUENCE {
      serviceType  UMF-USAGE.&id ({UsageInfoSet}),
      usageData    UMF-USAGE.&Value ({UsageInfoSet} {@.serviceType}) }
UsageInfoSet UMF-USAGE ::= {...}
"
```

c) *Remove* **"ServiceType ::= OBJECT IDENTIFIER".**

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