INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Amendment 1
X.722
(11/95)

DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

OSI MANAGEMENT

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

AMENDMENT 1: SET BY CREATE AND COMPONENT REGISTRATION

Amendment 1 to

ITU-T Recommendation X.722

(Previously "CCITT Recommendation")

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. Some 179 member countries, 84 telecom operating entities, 145 scientific and industrial organizations and 38 international organizations participate in ITU-T which is the body which sets world telecommunications standards (Recommendations).

The approval of Recommendations by the Members of ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, 1993). In addition, the World Telecommunication Standardization Conference (WTSC), which meets every four years, approves Recommendations submitted to it and establishes the study programme for the following period.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC. The text of ITU-T Recommendation X.722, Amendment 1, was approved on 21st of November 1995. The identical text is also published as ISO/IEC International Standard 10165-4.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized private operating agency.

ITU-T X-SERIES RECOMMENDATIONS

DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

(February 1994)

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Summary

This amendment to Rec. X.722 | ISO/IEC 10165-4 modifies the GDMO Package template to allow for the explicit specification of the Set By Create property. This amendment will ensure that Recommendation X.722 is consistent with Recommendation X.721, which states the Create request is permitted to specify an explicit value for individual attributes. This change will permit the automatic generation of MOCS because currently the “behaviour” definitions need to be studied to determine the Create capability specified. In addition, this amendment extends the Registration clause (6.4) to include the application context for Transaction Processing with Systems Management and extends the Registration arc for the General Relationship Model.

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

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

AMENDMENT 1
Set by Create and Component Registration

1) *Add the following in 2.1 after the reference to CCITT Rec. X.701:*

– ITU-T Recommendation X.702 (1995) | ISO/IEC 11587:1996, *Information technology – Open Systems Interconnection – Application context for systems management with transaction processing*.

2) *Replace 3.8.2 with the following:*

3.8.2 **template**: A standard format for the documentation of a definition of a management information element.

3) *Add the following row to Table 1:*

applicationContext(4)	Application contexts, ITU-T Rec. X.702 | ISO/IEC 11587 and subsequent parts.

4) *Add the following rows to Table 13 and to Table 15:*

relationshipClass(11)	Allocation of managed relationship class identifiers
relationshipMapping(12)	Allocation of relationship mapping identifiers
relationshipRole(13)	Allocation of relationship role identifiers

5) *Add the following to the end of the propertylist supporting productions in 8.4.2:*

[SET-BY-CREATE]

6) *Add the following after Note 2 in 8.4.3.2:*

The GET property is included if the value of the attribute may be retrieved with the Get attribute value operation.

The REPLACE property is included if the attribute may be set with the Replace attribute value operation and with the Create operation. Setting with the Create operation applies only if the Create operation is supported by the name binding of the managed object instance.

Inclusion of the GET-REPLACE property is the notation for specifying that both the GET property and the REPLACE property are included.

The ADD property is included if the attribute may be set with the Add member operation.

The REMOVE property is included if the attribute may be set with the Remove member operation.

Inclusion of the ADD-REMOVE property is the notation for specifying that both the ADD property and the REMOVE property are included.

The SET-BY-CREATE property is included if the attribute may be set by means of the Create operation. This property is only meaningful if the Create operation is supported by the name binding of the managed object instance. Since the REPLACE property is included if the attribute may be set by means of the Replace operation or the Create operation, the SET-BY-CREATE property does not have to be included if the REPLACE property is present. Similarly, the SET-BY-CREATE property does not have to be included if the ADD, REMOVE, or ADD-REMOVE property is present. Even if SET-BY-CREATE is absent, the attempt to set a value with the Create operation may succeed.