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INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.282

Amendment 2
(12/97)

SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATION

Open System Interconnection – Layer Managed Objects

Elements of management information related to the
OSI Data Link Layer

**Amendment 2: Addition of new counter
attributes**

ITU-T Recommendation X.282 – Amendment 2
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(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION X.282

ELEMENTS OF MANAGEMENT INFORMATION RELATED TO THE OSI DATA LINK LAYER

AMENDMENT 2 Addition of new counter attributes

Summary

This Amendment provides an addition of new counter attributes.

Source

Amendment 2 to ITU-T Recommendation X.282, was prepared by ITU-T Study Group 7 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 12th of December 1997.

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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. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

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.

NOTE

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

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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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Recommendation X.282

ELEMENTS OF MANAGEMENT INFORMATION RELATED TO THE OSI DATA LINK LAYER

AMENDMENT 2 Addition of new counter attributes

(Geneva, 1997)

1) Subclause 5.6

Add the following attributes in the new *CONDITIONAL PACKAGE* mLP-Counters-P *PACKAGE*:

mlpFramesReceived REPLACE-WITH-DEFAULT GET-REPLACE,
mlpFramesSent REPLACE-WITH-DEFAULT GET-REPLACE,
mlpFramesOutsideWindowGuard REPLACE-WITH-DEFAULT GET-REPLACE,

Add the following definitions of the new *ATTRIBUTES* in *Attributes*:

mlpFramesReceived ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR mlpFramesReceived-B BEHAVIOUR
DEFINED AS
Counter. Total number of mlp frames received.;;
REGISTERED AS {DLM.aoi mlpFramesReceived(52)};

mlpFramesSent ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR mlpFramesSent-B BEHAVIOUR
DEFINED AS
Counter. Total number of mlp frames Sent.;;
REGISTERED AS {DLM.aoi mlpFramesSent(53)};

mlpFramesOutsideWindowGuard ATTRIBUTE
DERIVED FROM "GMI":nonWrapping64BitCounter;
BEHAVIOUR mlpFramesOutsideWindowGuard-B BEHAVIOUR
DEFINED AS
Counter. Total number of mlp frames outside the window guard that have been received.;;
REGISTERED AS {DLM.aoi mlpFramesOutsideWindowGuard(54)};

2) Annex A

Add the following *Object Identifiers* to **attribute (7)**:

mlpFramesReceived(52)
mlpFramesSent(53)
mlpFramesOutsideWindowGuard(54)

3) Please note that X.282 Annex D does not exist in Rec. X.282 and its Amendment 1. Amendment 1 incorrectly assumed the existence of an Annex D when it added new Annexes E, F, G and H.

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