International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.693

Amendment 2
(06/2006)

SERIES X: DATA NETWORKS, OPEN SYSTEM COMMUNICATIONS AND SECURITY

OSI networking and system aspects – Abstract Syntax Notation One (ASN.1)

Information technology – ASN.1 encoding rules: XML Encoding Rules (XER)

Amendment 2: Time type support

ITU-T Recommendation X.693 (2001) – Amendment 2

ITU-T

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INTERNATIONAL STANDARD ISO/IEC 8825-4
ITU-T RECOMMENDATION X.693

Information technology – ASN.1 encoding rules: XML Encoding Rules

Amendment 2: Time type support

Summary

This amendment specifies the canonical encodings for the `TIME`, `TIME-OF-DAY`, `DATE, DATE-TIME`, and `DURATION` types.

Source

Amendment 2 to ITU-T Recommendation X.693 (2001) was approved on 13 June 2006 by ITU-T Study Group 17 (2005-2008) under the ITU-T Recommendation A.8 procedure. An identical text is also published as ISO/IEC 8825-4, Amendment 2.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 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.

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Amendment 2: Time type support

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Update the Contents as follows:

9.13 The `TIME` type and the useful time types

2) New subclause 9.13

Insert new subclause 9.13 as follows:

9.13 The `TIME` type and the useful time types

The "XMLTimeValue" for these types shall be modified as follows:

a) all commas used as decimal signs shall be converted to full stop;

b) the minutes digits for all time difference components that are an integral number of hours shall be removed;

c) if an interval or recurring interval contains a start point and an end point, and the end point contains the same time difference component as the start point, the time difference component of the end point shall be removed;

d) for a duration, and for a duration in an interval (or in an interval in a recurring interval) expressed with a start point and a duration or with a duration and an end point, the value notation shall be modified to remove all zero time components except the least significant time component that is present in the instance of the value notation.

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