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

**AMENDMENT 2: Time type support**

*Technologies de l'information — Règles de codage ASN.1: Règles de  
codage XML (XER)*  
*AMENDEMENT 2: Support type de temps*

[ISO/IEC 8825-4:2002/Amd.2:2006](https://standards.iso.org/iso-iec-8825-4:2002/Amd.2:2006)

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## Foreword

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The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 2 to ISO/IEC 8825-4:2002 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in collaboration with ITU-T. The identical text is published as ITU-T Rec. X.693:2002/Amd.2.

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

**Amendment 2: Time type support**

**1) Contents**

*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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