



**INTERNATIONAL STANDARD ISO/IEC 8825-1:1995**

TECHNICAL CORRIGENDUM 1

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# Information technology — ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)

TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Règles de codage ASN.1: Spécifications pour les règles de base de codage (BER), les règles canoniques de codage (CER) et les règles de distinction de codage (DER)*

RECTIFICATIF TECHNIQUE 1

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<https://standards.iteh.ai/catalog/standards/sist/ad966854-d071-4387-9194-6219cf4b928f/iso-iec-8825-1-1995-cor-1-1996>

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## INTERNATIONAL STANDARD

## ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY – ASN.1 ENCODING RULES:  
SPECIFICATION OF BASIC ENCODING RULES (BER), CANONICAL ENCODING  
RULES (CER) AND DISTINGUISHED ENCODING RULES (DER)**

**TECHNICAL CORRIGENDUM 1**

**1) Subclause 8.20.7**

*Replace the text with the following:*

For the "UniversalString" type, the octet string shall contain the octets specified in ISO/IEC 10646-1, using the 4-octet canonical form (see 14.2 of ISO/IEC 10646-1). Signatures shall not be used. Control functions may be used provided they satisfy the restrictions imposed by subclause 8.20.9.

**2) Subclause 8.20.8**

*Replace the text with the following:*

For the "BMPString" type, the octet string shall contain the octets specified in ISO/IEC 10646-1, using the 2-octet BMP form (see 14.1 of ISO/IEC 10646-1). Signatures shall not be used. Control functions may be used provided they satisfy the restrictions imposed by subclause 8.20.9. [ISO/IEC 8825-1:1995/Cor 1:1996](https://standards.iteh.ai/catalog/standards/sist/ad966854-d071-4387-9194-6219cf4b928f/iso-iec-8825-1-1995-cor-1-1996)

<https://standards.iteh.ai/catalog/standards/sist/ad966854-d071-4387-9194-6219cf4b928f/iso-iec-8825-1-1995-cor-1-1996>

**3) Subclause 8.20.9**

Create a new subclause 8.20.9 as defined below:

**8.20.9** The C0 and C1 control functions of ISO/IEC 6429 may be used with the following exceptions:

## NOTES

- 1 The effect of this subclause is to allow the useful control functions such as LF, CR, TAB, etc., while forbidding the use of escapes to other character sets.
- 2 The C0 and C1 control functions are each encoded in two octets for BMPString and four for UniversalString.
- a) Announcer escape sequences defined in ISO/IEC 2022 shall not be used.
 

NOTE 1 – The assumed character coding environment is ISO/IEC 10646-1.
- b) Designating or identifying escape sequences defined in ISO/IEC 2022 shall not be used, including the identifying escape sequences permitted by ISO/IEC 10646-1, 17.2 and 17.4.
 

NOTE 2 – ASN.1 allows the use of the PermittedAlphabet subtype notation to select the set of allowed characters. PermittedAlphabet is also used to select the level of implementation of ISO/IEC 10646-1. BMPString is always used for two-octet form and UniversalString for the four-octet form.
- c) Invoking escape sequence or control sequences of ISO/IEC 2022 shall not be used, such as SHIFT IN (SI), SHIFT OUT (SO), or LOCKING SHIFT FOR G3 (SS3)
- d) The coding shall conform to ISO/IEC 10646-1 and remain in that code set.
- e) Control sequences for identifying subsets of graphic characters according to ISO/IEC 10646-1, 17.3 shall not be used.
 

NOTE 3 – ASN.1 applications use subtyping to indicate subsets of the graphic characters of ISO/IEC 10646-1 and to select the ISO/IEC 10646-1 cells that correspond to the control characters of ISO/IEC 6429.
- f) The escape sequences of ISO/IEC 10646-1, 17.5 shall not be used to switch to ISO/IEC 2022 codes.