INTERNATIONAL STANDARD ISO/IEC 8825-2:1998
TECHNICAL CORRIGENDUM 3

Published 2002-12-15

Information technology — ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)

TECHNICAL CORRIGENDUM 3

Technologies de l'information — Règles de codage ASN.1: Spécification des règles de codage compact (PER)

RECTIFICATIF TECHNIQUE 3

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Technical Corrigendum 3 to ISO/IEC 8825-2:1998 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

ISO/IEC 8825-2:1998/Cor 3:2002
https://standards.iteh.ai/catalog/standards/sist/86751745-705a-4ef7-86ba-
a13326be70a1/iso-iec-8825-2-1998-cor-3-2002

ICS 35.100.60

Ref. No. ISO/IEC 8825-2:1998/Cor.3:2002(E)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

INTERNATIONAL STANDARD
ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – ASN.1 ENCODING RULES: SPECIFICATION OF PACKED ENCODING RULES (PER)

TECHNICAL CORRIGENDUM 3

1) Subclause 3.7.8

Relabel the current Note in 3.7.8 as "Note 1".

Add a new Note to 3.7.8 as follows:

> NOTE 2 – The effective SizeConstraint is used only to determine the encoding of lengths (and not to determine the set of abstract values).

2) Subclause 3.7.9

Relabel the current Note in 3.7.9 as "Note 1".

Add a new Note to 3.7.9 as follows:

> NOTE 2 – The effective PermittedAlphabet constraint is used only to determine the encoding of characters (and not to describe the set of abstract values).

3) Subclause 3.7.11

Add a Note to 3.7.11 as follows:

> NOTE – In 9.6, the extensibility bit will be set to 1 if the value to be encoded is not in the extension root of the constructed or constrained type as it is defined in the ASN.1 specification, without considering the possible effective constraints associated to the type.

4) Subclause 9.3.9

Replace 9.3.9 with the following:

9.3.9 PermittedAlphabet constraints on known-multiplier character string types, which are not extensible after application of 47.3 to 47.5 of ITU-T Rec. X.680 | ISO/IEC 8824-1, are PER-visible.

5) New subclause 9.3.13 *bis*

Add a new subclause 9.3.13 bis as follows:

9.3.13 *bis* If a subtype constraint is made of a serial application of constraints, the constraints which are not PER-visible, if any, are simply ignored.

> NOTE – For example:

A ::= IA5String(SIZE(1..4))(FROM("ABCD",…))

has an effective PermittedAlphabet constraint that consists of the entire IA5String alphabet since the extensible PermittedAlphabet constraint is not PER-visible. It has nevertheless an effective SizeConstraint which is SIZE(1..4).

Similarly,

B ::= IA5String(A)

has the same effective SizeConstraint and the same effective PermittedAlphabet constraint.

6)   New subclause 9.3.13 *ter*

Add a new subclause 9.3.13 ter as follows:

9.3.13 *ter*   If any subtype constraint is textually dependent, by way of set arithmetic, on a constraint which is defined in 9.3 to be not PER-visible, then the outer constraint is not PER-visible. If the outer constraint is extensible, this rule only applies if the non PER-visible constraint appears in the extension root of the outer constraint.

NOTE – For example:

A ::= IA5String(SIZE(1..4) INTERSECTION FROM("ABCD",…))

has no effective SizeConstraint and an effective PermittedAlphabet constraint that consists on the entire IA5String alphabet, because the constraint combination is not PER-visible since it depends on an extensible PermittedAlphabet constraint which is not PER-visible.

Hence,

B ::= IA5String(A INTERSECTION SIZE(3..10))

has an effective SizeConstraint which is SIZE(3..10) (but not an effective PermittedAlphabet constraint) because the ContainedSubtype constraint, which is PER-visible, restricts in no way the effective constraints (PermittedAphabet or SizeConstraint).

7)   Subclause 9.3.15

Replace the text of 9.3.15 with the following:

If a PER-visible constraint is extensible after application of 47.3 to 47.5 of ITU-T Rec. X.680 | ISO/IEC 8824-1, then the type is defined to be extensible for PER-encodings.

Replace Notes 1 and 2 by the following new Note:

NOTE – This property is determined based on the type definition as it appears in the ASN.1 specification without consideration given to the possible effective constraints (see 3.7.8 and 3.7.9) associated with this type.