

ISO/IEC 8825-7:2014-12 (E)

Information technology - ASN.1 encoding rules - Part 7: Specification of Octet Encoding Rules (OER)

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references.....	1
2.1 Identical Recommendations International Standards	1
2.2 Additional references	1
3 Definitions	2
3.1 Specification of basic notation	2
3.2 Information object specification.....	2
3.3 Constraint specification.....	2
3.4 Parameterization of ASN.1 specification	2
3.5 Basic Encoding Rules (BER)	2
3.6 Packed Encoding Rules (PER).....	2
3.7 Additional definitions.....	2
4 Abbreviations	4
5 Convention	4
6 Encodings specified by this Recommendation International Standard	4
7 Conformance	5
8 General provisions.....	5
8.1 Use of the type notation	5
8.2 Constraints	5
8.3 Type and value model used for encoding.....	7
8.4 Types to be encoded.....	7
8.5 Production of a complete OER encoding	7
8.6 Length determinant	7
8.7 Encoding of tags.....	8
9 Encoding of Boolean values	8
10 Encoding of integer values	8
11 Encoding of enumerated values.....	9
12 Encoding of real values	10
13 Encoding of bitstring values	11
13.1 General	11
13.2 Encoding of bitstring types with a fixed size	11
13.3 Encoding of bitstring types with a variable size.....	11
14 Encoding of octetstring values	11
15 Encoding of the null value.....	11
16 Encoding of sequence values.....	11
17 Encoding of sequence-of values	13
18 Encoding of set values.....	13
19 Encoding of set-of values	13

20	Encoding of choice values	13
21	Encoding of object identifier values	13
22	Encoding of relative object identifier values	14
23	Encoding of values of the internationalized resource reference type	14
24	Encoding of values of the relative internationalized resource reference type	14
25	Encoding of values of the embedded-pdv type.....	14
26	Encoding of values of the external type	14
27	Encoding of values of the restricted character string types	14
28	Encoding of values of the unrestricted character string type	15
29	Encoding of values of the time types.....	16
	29.1 General	16
	29.2 Optimized encoding of time subtypes with the Basic=Date property setting.....	17
	29.3 Optimized encoding of time subtypes with the Basic=Time property setting.....	18
	29.4 Optimized encoding of time subtypes with the Basic=Interval property setting.....	19
30	Encoding of open type values.....	20
31	Canonical Octet Encoding Rules	20
32	Object identifier values referencing the encoding rules	21
	Annex A – Example of OER encodings	22
	A.1 ASN.1 description of the record structure	22
	A.2 ASN.1 description of a record value	22
	A.3 BASIC-OER and CANONICAL-OER representation of this record value	22
	Annex B – Interoperability with NTCIP 1102:2004.....	25
	Bibliography	26