Appendiks/Appendix 4. ASN.1 BER - 1

Universal Class Tag No	ASN.1 Type
• 1	BOOLEAN
• 2	INTEGER
• 3	BITSTRING
• 4	OCTETSTRING
• 5	NULL
• 6	OBJECTIDENTIIER
• 7	ObjectDescriptor
• 8	EXTERNAL
• 9	REAL
• 10	ENUMERATED
• 11-15 addenda	reserved for
• 16 SEQUENCE OF	SEQUENCE,
• 17	SET, SET OF
• …	...

"Encoding" Tag Classes:
- • 00 Universal
- • 01 Application
- • 10 Context specific
- • 11 Private

P/C (6th bit):
- • 0 primitive encoding
- • 1 constructed encoding

Class	P/C	Tag number

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
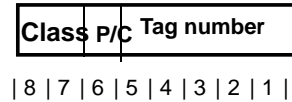
Tag Number:
- • <31 directly
- • >=31 as below:

last

classP/C11111	1 …	1 …	…	0 …
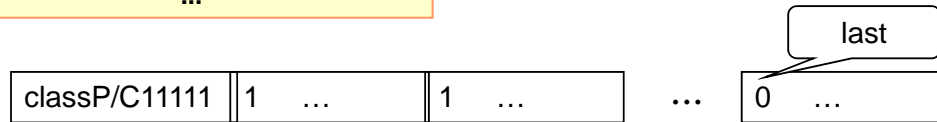
ASN.1 BER - 2

Definite form:

■ short: length < 128 → | 0 | <length> |

■ long: length > 128 → | 1 | <length of length field> | | <length field> | … | <length field> |

Length field < 127

Length field

Max Length of value field = $2^{(126 \cdot 8)} = 2^{1008}$

Indefinite form: Only for constructed types

| 10000000	<value>	… <value>	00000000	00000000

Start Octet   value octets   Final Sequence
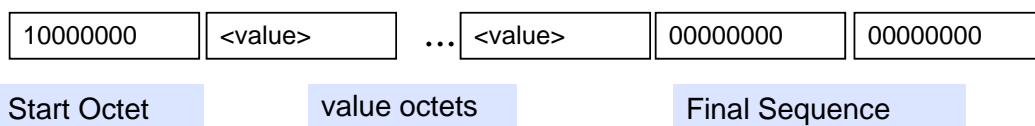
OBJECT IDENTIFIER is encoded with each sub identifier value encoded as an octet. An exception is iso (1) and organization (3), which is encoded as (43).

Instances of NULL is encoded with L-field is 00 hex and with empty V-field