

ISO/IEC 19785-3:2007-12 (E)

Information technology - Common Biometric Exchange Formats Framework - Part 3: Patron format specifications

Contents		Page
Foreword		vi
Introduction		vii
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
4.2	Other terms and definitions	3
5	Symbols and abbreviated terms	3
5.2	Other symbols and abbreviated terms	3
6	ASN.1 type definitions for CBEFF data elements and abstract values	4
6.1	General	4
6.2	CBEFF data elements type definitions module	4
7	Patron format specification: Minimum simple bit-oriented patron format	7
7.1	Patron	7
7.2	Patron identifier	7
7.3	Patron format name	7
7.4	Patron format identifier	7
7.5	ASN.1 object identifier for this patron format	7
7.6	Domain of use	7
7.7	Version identifier	7
7.8	CBEFF version	7
7.9	General	7
7.10	Bit oriented patron format specification and conformance statement	8
7.10.1	Specification	8
7.10.2	Patron format conformance statement	8
8	Patron format specification: Minimum simple byte-oriented patron format	10
8.1	Patron	10
8.2	Patron identifier	10
8.3	Patron format name	10
8.4	Patron format identifier	10
8.5	ASN.1 object identifier for this patron format	10
8.6	Domain of use	10
8.7	Version identifier	10
8.8	CBEFF version	10
8.9	General	10
8.10	Patron format specifications and conformance statement	11
8.10.1	Patron format specification	11
8.10.2	Patron format conformance statement	11
9	Patron format specification: Fixed-length-fields, byte-oriented patron format using presence bit-map	12
9.1	Patron	12

9.2	Patron identifier	12
9.3	Patron format name	12
9.4	Patron format identifier	12
9.5	ASN.1 object identifier for this patron format	12
9.6	Domain of use	12
9.7	Version identifier	12
9.8	CBEFF version	12
9.9	General	12
9.10	Specification	13
9.11	Patron format conformance statement	15
9.11.1	Identifying information	15
9.11.2	CBEFF-defined data elements and abstract values	16
9.11.3	Patron defined data elements and abstract values	17
10	Patron format specification: Fixed-length-fields, bit-oriented patron format using presence bit-map	18
10.1	Patron	18
10.2	Patron identifier	18
10.3	Patron format name	18
10.4	Patron format identifier	18
10.5	ASN.1 object identifier for this patron format	18
10.6	Domain of use	18
10.7	Version identifier	18
10.8	CBEFF version	18
10.9	General	18
10.10	Specification	19
10.11	Patron format conformance statement	20
10.11.1	Identifying information	20
10.11.2	CBEFF-defined data elements and abstract values	21
10.11.3	Patron defined data elements and abstract values	21
11	Patron format specification: TLV-encoded patron format, for use with smartcards or other tokens	22
11.1	Patron	22
11.2	Patron identifier	22
11.3	Patron format name	22
11.4	Patron format identifier	22
11.5	ASN.1 object identifier for this patron format	22
11.6	Domain of Use	22
11.7	Version identifier	22
11.8	CBEFF version	22
11.9	General	22
11.10	ASN.1 specification	25
11.11	Tabular representations for information	26
11.11.1	The Biometric Information Template used for on-card matching	26
11.11.2	The Biometric Information Template used for off-card matching	28
11.12	The Group BIT Data Object	29
11.13	Abstract values and encodings for biometric type and subtype	30
11.14	Patron format conformance statement	31
11.14.1	Identifying information	31
11.14.2	CBEFF-defined data elements and abstract values	31
11.14.3	Patron-defined data elements and abstract values	31
12	Patron format specification: complex patron format	32
12.1	Patron	32
12.2	Patron identifier	32
12.3	Patron format name	32
12.4	Patron format identifier	32
12.5	ASN.1 object identifier for this patron format	32
12.6	Domain of use	32
12.7	Version identifier	32
12.8	CBEFF version	32

12.9	General	32
12.10	Specification	33
12.11	Illustrative examples	37
12.12	ASN.1 definition (provided for illustrative purposes only)	40
12.13	Patron format conformance statement	41
12.13.1	Identifying information	41
12.13.2	CBEFF-defined data elements and abstract values	42
12.13.3	Patron-defined data elements and abstract values	43
13	Patron format specification: XML patron format	44
13.1	Patron	44
13.2	Patron identifier	44
13.3	Patron format name	44
13.4	Patron format identifier	44
13.5	ASN.1 object identifier for this patron format	44
13.6	Domain of use	44
13.7	Version identifier	44
13.8	CBEFF version	44
13.9	General	44
13.10	Specification	45
13.11	Element <bir>	45
13.11.1	Syntax	45
13.11.2	Semantics	46
13.12	Element <version>	47
13.12.1	Syntax	47
13.12.2	Semantics	47
13.13	Element <cbeff-version>	47
13.13.1	Syntax	47
13.13.2	Semantics	47
13.14	Element <bir-info>	48
13.14.1	Syntax	48
13.14.2	Semantics	48
13.15	Element <bdb-info>	50
13.15.1	Syntax	50
13.15.2	Semantics	51
13.16	Element <sb-info>	55
13.16.1	Syntax	55
13.16.2	Semantics	56
13.17	Representation of Integers	56
13.18	Representation of Octet Strings	56
13.19	Representation of Date and Time of the Day	57
13.20	Representation of Universally Unique Identifiers	57
13.21	Patron format conformance statement	58
13.21.1	Identifying information	58
13.21.2	CBEFF-defined data elements and abstract values	58
13.21.3	Patron-defined data elements and abstract values	60
13.22	XML schema of the patron format	60
13.23	ASN.1 schema of the patron format	62
13.24	An example of a simple BIR in XML encoding (complying with the ASN.1 schema, the XSD schema, and the normative textual description)	64
13.25	An example of a complex BIR in XML encoding (complying with the ASN.1 schema, the XSD schema, and the normative textual description)	66
Annex A (informative)	Guidelines on the specification of patron formats	69
A.1	General	69
A.2	Basic encoding mechanisms	69
A.3	Octet-alignment	70
A.4	Length fields	70
A.5	CBEFF data element values and patron format fields	70
A.6	Historically used encodings of certain abstract values	71
A.7	Variable length data elements	72
A.8	Security Blocks	72