

ISO/TS 28560-4:2014-12 (E)

Information and documentation - RFID in libraries - Part 4: Encoding of data elements based on rules from ISO/IEC 15962 in an RFID tag with partitioned memory

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Applicability and relationship with other systems	4
4.1	General	4
4.2	Independent standards-based components	4
4.3	Integrated encoding/decoding software	6
4.4	Legacy-based architecture	8
5	Requirements	9
5.1	Data elements	9
5.2	RFID air interface: ISO/IEC 18000-63 for UHF	9
5.3	RFID air interface: Other air interface protocols	10
5.4	Data protocol	10
5.5	RFID interrogators (RFID readers)	10
6	Data elements	10
6.1	General	10
6.2	Unique item identifier (UII)	12
6.3	Primary item identifier	15
6.4	Content parameter	15
6.5	Owner institution (ISIL)	16
6.6	Set information	16
6.7	Type of usage	16
6.8	Shelf location	16
6.9	ONIX media format	17
6.10	MARC media format	17
6.11	Supplier identifier	17
6.12	Order number	17
6.13	ILL borrowing institute	17
6.14	ILL transaction number	17
6.15	GS1 product identifier	17
6.16	Alternative unique item identifier	18
6.17	Local data	18
6.18	Title	18
6.19	Product identifier (local)	19
6.20	Media format (other)	19
6.21	Supply chain stage	19
6.22	Supplier invoice number	19
6.23	Alternative item number	19
6.24	Alternative owner institution	20
6.25	Subsidiary of an owner library	20
6.26	Alternative ILL borrowing institution	20
6.27	Other reserved data elements	20

7	Data encoding	20
7.1	Data protocol overview	20
7.2	ISO/IEC 15961-1 commands and responses	22
7.3	ISO/IEC 15962 encoding rules for this part of ISO 28560	22
8	RFID tag requirements	34
8.1	Air interface protocol	34
8.2	Required air interface commands	35
8.3	Air interface conformance	36
8.4	Performance	36
9	Data integrity, security, and privacy issues	36
9.1	Data integrity	36
9.2	Item security	36
9.3	Privacy issues	40
10	Implementation and migration	40
	Annex A (informative) Information about ISO 28560 RFID in libraries	41
	Annex B (normative) Relevant ISO/IEC 15961-1 application commands	42
	Annex C (normative) Locking procedure for MB 01 with encoding in MB 11	45
	Annex D (normative) Monomorphic-Ull and URN Code 40 encoding	46
	Annex E (informative) Encoding examples	50
	Annex F (informative) Implementation and migration	54
	Bibliography	56