

ISO 28560-2:2018 (E)

Information and documentation — RFID in libraries — Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Applicability and relationship with other systems
5	Requirements
5.1	Data elements
5.2	RFID air interface
5.2.1	General
5.2.2	Air interface conformance
5.2.3	Tag performance
5.3	Data protocol
5.4	RFID readers
6	Data elements
6.1	General
6.2	Primary item identifier
6.3	Content parameter
6.4	Owner institution (ISIL)
6.5	Set information
6.6	Type of usage
6.7	Shelf location
6.8	ONIX media format
6.9	MARC media format
6.10	Supplier identifier
6.11	Order number
6.12	ILL borrowing institution
6.13	ILL transaction number
6.14	GS1 product identifier
6.15	Alternative unique item identifier
6.16	Local data
6.17	Title
6.18	Product identifier (local)
6.19	Media format (other)
6.20	Supply chain stage
6.21	Supplier invoice number
6.22	Alternative item identifier
6.23	Alternative owner institution
6.24	Subsidiary of an owner institution
6.25	Alternative ILL borrowing institution
6.26	Other reserved data elements
7	Data encoding
7.1	Data protocol overview
7.2	Data constructs
7.2.1	General

7.2.2	AFI
7.2.3	Data format
7.2.4	Object identifier for library applications
7.2.5	Object identifier for the primary item identifier
7.2.6	DSFID and access method
7.3	ISO/IEC 15961#1 commands and responses
7.4	ISO/IEC 15962 encoding rules
7.4.1	General
7.4.2	Logical memory
7.4.3	Configuration of the RFID tag
7.4.3.1	General
7.4.3.2	Configuration of the AFI
7.4.3.3	Configuration of the DSFID
7.4.4	Data compaction
7.4.5	Creating the encoded data set(s)
7.4.5.1	General
7.4.5.2	Data set for Relative-OID values 1 to 14
7.4.5.3	Data set for OID values 15 to 127
7.4.5.4	Locking a data set
7.4.5.5	Logical memory
8	RFID tag requirements
8.1	Air interface protocol
8.1.1	General
8.1.2	Declaring memory parameters
8.1.3	AFI memory
8.1.4	DSFID memory
8.1.5	Required air interface commands
8.2	Bit and byte sequence
8.3	Air interface conformance
8.4	Performance
9	Data integrity, security and privacy issues
9.1	Data integrity
9.2	Item security
9.2.1	General
9.2.2	Use of the dual AFI system
9.2.3	Use of the unique tag ID
9.2.4	Use of the EAS features
10	Implementation and migration
Annex A	(informative) Information about ISO 28560 RFID in libraries
A.1	Informational website
A.2	Types of support information
Annex B	(normative) Relevant ISO/IEC 15961-1 application commands
B.1	Configure-AFI
B.2	Configure-DSFID
B.3	Inventory-Tags
B.4	Write-Objects
B.5	Read-Objects
B.6	Read-Object-Identifiers
B.7	Get-App-Based-System-Info
B.8	Modify-Object
B.9	Delete-Object
B.10	Read-Logical-Memory-Map
B.11	Erase-Memory
Annex C	(normative) Pre-encoding the ISIL
C.1	General considerations
C.2	Control characters
C.3	Encoding rules
C.3.1	Base character set

- C.3.2 Encoding process
- C.4 Declaring the ISO/IEC 15962 compaction scheme
- C.5 Use of generic or application-specific ISO/IEC 15962 encoders and decoders
- C.5.1 General
- C.5.2 Generic ISO/IEC 15962 encoder or decoder
- C.5.3 Inclusive encoder or decoder for this document
- C.6 Encoding examples
- C.6.1 EXAMPLE 1: DE-Heu1
- C.6.2 EXAMPLE 2: CH-000134-1

Annex D (informative) Encoding examples

- D.1 General considerations
- D.2 Input assumptions
- D.2.1 RFID tag
- D.2.2 Input data
- D.3 Encoding the data elements
- D.3.1 General
- D.3.2 Primary item identifier
- D.3.3 OID index
- D.3.4 Set information
- D.3.5 Shelf location
- D.3.6 Owner institution (ISIL)
- D.4 Complete encoding

Annex E (informative) Implementation and migration

- E.1 New RFID implementations
- E.2 Legacy RFID implementations using ISO/IEC 18000#3 Mode 1 RFID tags
- E.3 Legacy RFID implementations using other RFID tags

Page count: 44