

Australian/New Zealand Standard™

**Information and documentation—RFID  
in libraries**

**Part 1: Data elements and general  
guidelines for implementation**



## **AS/NZS ISO 28560.1:2015**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT-019, Information and Documentation, Information Technology—Learning, Education, Training and Research. It was approved on behalf of the Council of Standards Australia on 30 November 2015 and on behalf of the Council of Standards New Zealand on 23 November 2015.  
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# Australian/New Zealand Standard™

## Information and documentation—RFID in libraries

### Part 1: Data elements and general guidelines for implementation

Originated as AS/NZS ISO 28560.1:2013.  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-019, Information and Documentation, Information Technology—Learning, Education, Training and Research, to supersede AS/NZS ISO 28560.1:2013.

The objective of this Standard is to specify a model for the use of radio frequency identification (RFID) tags for items appropriate for the needs of all types of libraries, including academic, public, corporate, special and school.

This Standard is identical with, and has been reproduced from ISO 28560-1:2014, *Information and documentation—RFID in libraries*, Part 1: *Data elements and general guidelines for implementation*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text ‘this part of ISO 28560’ should read ‘this Australian/New Zealand Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
ISO	AS/NZS ISO
28560 Information and documentation—RFID in libraries	28560 Information and documentation—RFID in libraries
28560-2 Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962	28560.2 Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962
28560-3 Part 3: Fixed length encoding	28560.3 Part 3: Fixed length encoding

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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## INTRODUCTION

Libraries are implementing radio frequency identification (RFID) as item identification to replace bar codes. RFID streamlines applications like user self-service, security, and materials handling. A standard data model for encoding information on RFID tags could increase the cost-effectiveness of the technology within libraries, particularly through greater interoperability of RFID tags and equipment, and enhance support for resource sharing between libraries.

Tags that are currently used in libraries use proprietary rules adopted by vendors or follow the rules of historic national RFID models. In general, there is interoperability between tags with a data model compliant with this International Standard and tags that carry a non-ISO 28560-compliant data model.

Several countries have undertaken preliminary work on standardization. The Netherlands developed a data model for public libraries and in Denmark “RFID Data Model for Libraries” has been published. Finland has adopted the Danish model, but with a few changes. There is a French data model that differs from the Danish and Dutch models. Other libraries in different parts of the world have installations based on various proprietary systems offered by technology and library system suppliers. All of these constitute the installed base of RFID systems, but only account for a small minority of the total of libraries globally.

There is an opportunity to develop a standard data model, taking into account the lessons learned from the national schemes and vendor solutions, and provide migration options for those libraries that have already invested in the technology. Because new items are continually being purchased, a number of migration options can be adopted based on factors relevant to each library.

This part of ISO 28560 deals with data elements and provides general guidelines for implementation. Other parts of ISO 28560 describe encodings and choice of frequency.

Communication between the RFID reader and the library system (or other applications) is handled by, for example, SIP-2 and NCIP (see Bibliography).

This International Standard provides essential standards-based information about RFID in libraries. Ongoing advice needs to be provided because of the evolving nature of RFID technology and the opportunities to migrate between different types of legacy system and encoding rules of this International Standard.

## AUSTRALIAN/NEW ZEALAND STANDARD

**Information and documentation—RFID in libraries****Part 1:****Data elements and general guidelines for implementation****1 Scope**

This part of ISO 28560 specifies a model for the use of radio frequency identification (RFID) tags for items appropriate for the needs of all types of libraries, including national, academic, public, corporate, special, and school.

This part of ISO 28560 provides the framework to ensure interoperability between libraries that exchange library items with RFID tags, the freedom of the library to acquire or renew equipment or library items from different vendors, and interoperability of a single RFID application from the vendor's perspective.

This part of ISO 28560 specifies a set of data elements and general guidelines for implementation, to meet the needs for:

- circulation of library items;
- acquisition of library items;
- interlibrary loan processes;
- data requirements of publishers, printers, and other suppliers of library items;
- inventory and stock checking of items.

This part of ISO 28560 gives guidelines for item security, profiles, privacy, implementation, migration, label design, and location of the RFID label.

This part of ISO 28560 specifies the data model, system data elements, and user data elements to be used in conjunction with ISO 28560-2, ISO 28560-3, and any future parts of ISO 28560.

A source of additional information about implementation issues is provided in [Annex A](#).

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 15961-3, *Information technology — Radio frequency identification (RFID) for item management: Data protocol — Part 3: RFID data constructs*

ISO 28560-2, *Information and documentation — RFID in libraries — Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962*

ISO 28560-3, *Information and documentation — RFID in libraries — Part 3: Fixed length encoding*

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.