INTERNATIONAL STANDARD

ISO 18626

Third edition
2021-12

Information and documentation — Interlibrary loan transactions

Information et documentation — Transactions de prêt interbibliothèques

Reference number
ISO 18626:2021(E)

© ISO 2021



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

© ISO 2021 – All rights reserved

Contents

Page

Foreword ... **iv**
Introduction ... **vi**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Messages ... **3**
4.1 General ... 3
4.2 Request ... 4
4.3 Request Confirmation ... 8
4.4 Supplying Agency Message ... 8
4.5 Supplying Agency Message Confirmation ... 11
4.6 Requesting Agency Message ... 11
4.7 Requesting Agency Message Confirmation ... 12
4.8 Complex Types ... 12
4.9 Closed Codes ... 13
4.10 Error Data ... 16
5 Format and transport ... **17**
5.1 Format ... 17
5.2 Transport ... 17
5.2.1 General ... 17
5.2.2 Applications acting as initiators ... 17
5.2.3 Applications acting as responders ... 18
5.2.4 HTTP/HTTPS message headers ... 18
5.2.5 Data privacy protection ... 18
5.2.6 Character Representation ... 18
6 Conformance requirements ... **19**
Annex A (informative) **Information website** ... **20**
Annex B (informative) **Open Codes** ... **21**
Annex C (informative) **XML schemas** ... **28**
Annex D (informative) **Guidelines — Use cases** ... **29**
Annex E (informative) **Supplying library's internal unique record ID** ... **37**
Annex F (informative) **Profiles of ISO 18626** ... **38**
Annex G (informative) **Handling consortia** ... **39**
Annex H (informative) **Retry - negotiations between the requesting and supplying libraries** ... **40**
Bibliography ... **42**

© ISO 2021 – All rights reserved

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 46, *Information and documentation*, Subcommittee SC 4, *Technical interoperability*.

This third edition cancels and replaces the second edition (ISO 18626:2017), which has been technically revised.

The main changes compared to the previous edition are as follows.

— Several elements have been added to handle identified use cases. As part of this, SentVia has been renamed DeliveryMethod, this element is now used in both the Request and Supplying Agency Messages. This is the only elimination of an element and has been done after consultation with implementers.

— Annex B has been rewritten to clarify the use of open codes.

— Annex D has been changed from including several use cases to one sample use case and a has been linked to additional use cases at the website (see Annex A).

— Annex F has been added with guidelines about the use of profiles with ISO 18626.

— Annex G has been added with guidelines about consortia.

— Annex H has been added with guidelines about handling negotiations using “retry” when the supplier cannot fulfil the first request.

— A RetryInfo section to Supplying Agency Message has been added.

— ServiceInfo/PreferredFormat has been renamed to ServiceInfo/ItemFormat and renamed DeliveryInfo/DeliveredFormat to DeliveryInfo/ItemFormat so that we only need one Open Code list for Formats.

© ISO 2021 – All rights reserved

— PhysicalAddress/Region has been changed from StandardCodes to free-text field to bring the PhysicalAddress structure in line with the PhysicalAddress structure used in NCIP (to simplify implementation).

— For requests, the element PreferredEdition has been added. For the purposes of this document, the element AnyEdition has been retained to ensure backward compatibility.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

© ISO 2021 – All rights reserved

Introduction

This document is intended to succeed the old ISO interlibrary lending protocol (consisting of ISO 10160, ISO 10161-1 and ISO 10161-2). Unlike its predecessors, this document is well suited to the modern, web-based technological environment, which is based on XML and web services. Another important difference between the two standards is that while ISO 10160 is based on an outdated 1980s model of ILL transactions, its successor relies on and supports a modern, much simpler interlibrary loan (ILL) procedure.

This document specifies three simple messages: a Request, a Supplying Library Message and a Requesting Library Message. Implementer experiences gathered from the previous edition of this ILL protocol indicates that it is easier to implement than ISO 10160 and that the functionality provided meets the requirements of libraries' current ILL practices.

This document is the first part of a more general strategic initiative to standardize resource sharing in ISO/TC46/SC4. As part of this intention, the committee has aligned element names, transport and XML schema with similar functions in ANSI/NISO Z39.83[7].

In the next version of this document, AnyEdition will be deprecated in favour of PreferredEdition. It is recommended to upgrade from AnyEdition to PreferredEdition without unnecessary delay.

For additional information about implementation of this document, see Annex A.

© ISO 2021 – All rights reserved

Information and documentation — Interlibrary loan transactions

1 Scope

This document specifies the transactions between libraries or libraries and other agencies to handle requests for library items and the following exchange of messages.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2108, *Information and documentation — International Standard Book Number (ISBN)*

ISO 3166-1, *Codes for the representation of names of countries and their subdivisions — Part 1: Country code*

ISO 3297, *Information and documentation — International standard serial number (ISSN)*

ISO 4217, *Codes for the representation of currencies*

ISO 8601-1, *Date and time — Representations for information interchange — Part 1: Basic rules*

ISO/IEC 10646, *Information technology — Universal coded character set (UCS)*

ISO 10957, *Information and documentation — International standard music number (ISMN)*

ISO 15511, *Information and documentation — International standard identifier for libraries and related organizations (ISIL)*

ISO 20247, *Information and documentation — International library item identifier(ILII)*

ISO 26324, *Information and documentation — Digital object identifier system*

ISO 27729, *Information and documentation — International standard name identifier (ISNI)*

RFC 3629, *UTF-8, a transformation format of ISO 10646*

RFC 7230, *Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing*

RFC 7231, *Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content*

RFC 7540, *Hypertext Transfer Protocol Version 2 (HTTP/2)*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at http://www.electropedia.org/

© ISO 2021 – All rights reserved

3.1
agency
library (3.2), *library-related organization* (3.5) or other agencies such as an archive or a museum or a commercial document supplier

3.2
library
organization, or part of an organization, the main aim of which is to maintain a collection and to facilitate, by services of a staff, the use of such documents as are required to meet the informational, research, educational or recreational needs of its users

[SOURCE: ISO 2789:2013, 2.1.6]

3.3
library consortium
local, regional, or national cooperative association of *libraries* (3.2) that provides for the systematic and effective coordination of the resources of school, public, academic, or special libraries, information centres and other agencies, for improving services to the clientele of such libraries

3.4
library items
books, journals, articles, music, etc. or copies of these in physical or digital format

3.5
library-related organization
institution, company, consortium or other organization which handles ILL requests and/or receives requested *library items* (3.4) on behalf of one or more *libraries* (3.2)

3.6
requesting agency
agency (3.1), which may send requests for *library items* (3.4) and receive them from the *supplying agency* (3.7)

3.7
supplying agency
agency (3.1), which receives requests for *library items* (3.4) and delivers them to the *requesting agency* (3.6)

3.8
uniform resource identifier
URI
compact sequence of characters that identifies an abstract or physical resource

[SOURCE: ISO/IEC 12785-1:2009, 3.23]

3.9
uniform resource locator
URL
subset of URIs that provide a means of locating a resource by describing its primary access mechanism

[SOURCE: ISO/IEC 12785-1:2009, 3.24]

3.10
uniform resource name
URN
persistent, location-independent, resource identifier used for recognition of, and access to, characteristics of the resource or the resource itself

[SOURCE: RFC 8141]

© ISO 2021 – All rights reserved