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Informatika in dokumentacija - Transakcije medknjižnične izposoje

Information and documentation -- Interlibrary Loan Transactions

Information et documentation -- Transactions de prêt interlibrairies

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Information and documentation — Interlibrary Loan Transactions

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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 on 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 the following URL: 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 of ISO 18626 cancels and replaces the second edition (ISO 18626:2017), of which it constitutes a revision.

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 is changed from including several use cases to one sample use case and a link to additional use cases at the website (ref. Annex A).

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

— Annex G is added with guidelines about consortia.

— Annex H is added with guidelines about handling negotiations using "retry" when the supplier cannot fulfil the first request.

— Added a RetryInfo section to SupplyingAgencyMessage, which should only be used when the Status is RetryPossible. This section is used in conjunction with the expanded set of ReasonRetry values as described in Annex H.

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

— 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. In 18626:2021, the element AnyEdition will be retained to ensure backward compatibility. In the next version of the standard AnyEdition will be deprecated in favour of PreferredEdition. It is recommended to upgrade from AnyEdition to PreferredEdition without unnecessary delay.

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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 predecessor, 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 ILL procedure.

ISO TC 46/SC 4 made an attempt to revise ILL standards in 2007. The chosen policy — careful revision of the existing standard — failed, since for some SC 4 P members the revision was too radical, whereas some other P members indicated that it was not thorough enough. In order to avoid a similar deadlock, the SC 4 plenary meeting chose a different strategy in 2012. The committee shall keep the old standard alive as long as necessary by, e.g. making the editorial changes needed. But SC 4 also decided to start the development of a new, Web-enabled ILL standard.

The new standard specifies three simple messages: a request, a supplying library message and a requesting library message. The protocol is stateless, which means that there shall be no need to maintain the interconnected state tables in the client and server applications (and the connections to the state tables in applications behind them). 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 editors have aligned element names, transport and XML schema with similar functions in ANSI/NISO Z39.83 NISO Circulation Interchange Protocol.

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*

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

RFC 8141, *Uniform Resource Names (URNs)*

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/

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, definition 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, definition 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, definition 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: URN RFC 8141]

4 Messages

4.1 General

This document specifies three messages and responses to them for handling interlibrary loan transactions:

— Request (see Table 1) and Request Confirmation (see Table 2);

— Supplying Agency Message (see Table 3) and Supplying Agency Message Confirmation (see Table 4);

— Requesting Agency Message (see Table 5) and Requesting Agency Message Confirmation (see Table 6).

See additional information on guidelines about the use of this document in Annex D. This annex is illustrative and does not cover all relevant use cases.

For Request, Supplying Agency Message and Requesting Agency Message, a confirmation message is sent immediately (see 4.3, 4.5 and 4.7). The Request Confirmation message (see Table 2) is not a positive or negative response to the request; it indicates only that the Request message has been received. If the Request message contains problems, the Request Confirmation message shall include Error Data (see 4.10).

Codes used in tables are as follows:

— R   Repeatable;

— M   Mandatory;

— CT   Complex Type;

— OC   Open Code List (i.e. Scheme Value Pair);

— CC   Closed Code List (i.e. the code list is part of the ILL standard);

— SC   Standard Code List.

Open Code Lists are predefined schemes, consisting of an enumerated list of possible values for a given data element that should be supported by applications conformant with this document. The Open Code Lists of values are not comprehensive and implementer groups may develop additional schemes for these enumerated types to cover their implementation requirements. Thus, an application may choose to support additional schemes for one or more Open Code Lists. Core lists of values to be supported by all implementations are defined in Annex B.

The lists of values may be derived from standard lists of codes or other registries.

Standard Code Lists are based on code lists published in standards or other normative documents.

New schemes may be added to the Open Code List as described in Annex B.

Complex Types are listed and defined in 4.8.

Closed Code Lists (see 4.9) are a normative part of this document and shall be supported by applications conformant with this document. They are similar to Open Code Lists, except that Closed Code Lists of values are expected to be relatively comprehensive and stable. However, new closed code scheme elements and code values may be added to the future versions of this document.

Date and time shall always be provided in the form YYYY-MM-DDThh:mm:ssZ as specified by ISO 8601-1. When time is not significant, e.g. when a due date is given, use 23:59:59Z to indicate the time, for example, 2013-05-15T23:59:59Z.

Use of the identifiers in Table B.1 shall be according to the referred standards: ISIL according to ISO 15511, ISBN according to ISO 2108, ISSN according to ISO 3297, ISMN according to ISO 10957 and DOI according to ISO 26324.

Use of the currency symbols referenced in Table 7 shall be as specified in ISO 4217.

4.2   Request

The Request contains information about the item and service requested.

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The Request is sent from the requesting agency to the supplying agency.

The Request contains some or all of the following groups of data elements as shown in Table 1.

— Header: administrative information

— BibliographicInfo: details of the item being requested

— PublicationInfo: information about the publication

— ServiceInfo: details of the service being requested

— SupplierInfo: list of potential suppliers

— RequestedDeliveryInfo: where and how to send the item

— RequestingAgencyInfo: details about the requesting agency

— PatronInfo: details about the patron

— BillingInfo: how to charge the requesting agency

Table 1 — Request

Element	Definition	Codes
Header	*Administrative information*	M
SupplyingAgencyId	Identification of supplying library (Complex Type AgencyId) SupplyingAgencyId shall be provided except for RequestSub-Type = PatronRequest and TransferRequest	CT
RequestingAgencyId	Identification of requesting library (Complex Type AgencyId)	M CT
ConsortialId	Identification of the consortium with which the request is associated (Complex Type AgencyId)	CT
MultipleItemRequestId	Identification of MultipleItemRequest	
Timestamp	Date and time of the transaction Ref. ISO 8601-1 Format: UTC: YYYY-MM-DDThh:mm:ssZ	M
RequestingAgencyRequestId	Requesting library's request identification or number	M
RequestingAgencyAuthentication	Authentication in supplying library system of the requesting library (Complex Type)	CT
BibliographicInfo	*Bibliographic information about the requested item*	M
SupplierUniqueRecordId	SupplierUniqueRecordId should be used for the supplying library's internal unique identifier for the requested item, acquired from a preceding automatic holdings request. If this identifier is used, there should be no other identifiers in BibliographicInfo More information can be found in Annex E	
Title	Title of the requested item	
Author	Author of the requested item	
AuthorId	ISNI Name identifier of the author Ref.: ISO 27729	
Subtitle	Subtitle of the requested item	
SeriesTitle	Title of the series	
Edition	Number or name of the edition	

Table 1 *(continued)*

Element	Definition	Codes
TitleOfComponent	Title of the component part (e.g. article)	
AuthorOfComponent	Author of the component part	
Volume	Volume number	
Issue	Issue number	
PagesRequested	Page from and page to	
EstimatedNoPages	Expected number of pages	
BibliographicItemId	Identification of a physical or electronic object (Complex Type)	R CT
Sponsor	Person or organization sponsoring the publication	
InformationSource	Description of where bibliographic information was found	
BibliographicRecordId	Identification of a bibliographic record (Complex Type)	CT R
PublicationInfo	*Information about the publication*	
Publisher	Name of the publisher	
PublisherId	ISNI Name identifier of the publisher Ref.: ISO 27729	
PublicationType	Type of publication	OC
PublicationDate	Date of publication For serials and serial articles, this should be the publication date of the component part such as issue, not the date when the serial was first issued	
PlaceOfPublication	Place of publication, e.g. a city	
ServiceInfo	*Information about the requested service*	M
RequestType	Type of request (new, retry or reminder) If no request type is specified, the default is "new"	CC
RequestSubType	Sub type to qualify the request	R CC
RequestingAgencyPrevious-RequestId	Requesting agency's previous request number when a retry is sent. The Retry request may include updated data based on ReasonRetry	
ServiceType	Type of service. Values: Copy, Loan or CopyOrLoan. If Copy is requested, then the requesting library is interested only in a copy. If Loan is requested, then the requesting library is interested only in a loan. If CopyOrLoan is requested, then the requesting library is willing to accept either a copy or a loan	M CC
ServiceLevel	Level of service If the requesting library is willing and is able to accept any service level, then the requesting library shall not include this element in the message	OC
ItemFormat	Format of medium requested If the requesting library is willing and is able to accept any format, then the requesting library shall not include this element in the message	OC
NeedBeforeDate	The request is not relevant after the stated date/time Ref. ISO 8601-1 Format: UTC: YYYY-MM-DDThh:mm:ssZ If the requesting library is willing and is able to accept the requested item at any time, then the requesting library shall not include this element in the message	