SYSTEMATIC

Interface Specification
FBS-14789

Cicero ISO20775 Specification

Simplifying critical decision making

Interface Specification

Project:	FBS-14789
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1   Introduction

This document describes the implementation of the Danish profile for ISO20775 in Cicero.

1.1   ISO20775 documentation

This document is based on the "ISO 20775, Information and Documentation - Schema for Holdings Information", and the Danish profile.

The Danish profile can be found at

```
http://biblstandard.dk/ill/dk/docs/Danish_ISO_20775_profile_for_holdings_requests.htm
```

1.2   Endpoints

The Cicero Holding Look-up implementation uses REST / HTTP GET.

The endpoint address is as follows:

```
http://[Server]/[Library ID]/holding
```

Contact Systematic A/S to obtain the exact server address.

The parameters used on the resource are like:

```
?version=1.2&operation=searchRetrieve&recordSchema=isohold&qyery=rec.id=[Faust
number]
```

1.3   Request References implemented

This request is implemented from the specification Look-up of holdings information:

http://biblstandard.dk/ill/dk/docs/Look-up_of_holdings_information.htm

Which is based upon SRU:

http://www.loc.gov/standards/sru/

1.4   Response

The response is created from the Danish ISO 20775 profile for holding requests

http://biblstandard.dk/ill/dk/docs/Danish_ISO_20775_profile_for_holdings_requests.htm

2   Response

The Danish ISO 20775 profile for holding Look-up contains 3 different return options. Cicero only implements the first 2 options:

1. Record describes a resource which is circulated as a unit
2. Record describes a resource and multiple parts circulated independently

The 3.th option describing INSUFFICIENT structured holding responses are not used in Cicero LMS:

3. (**not implemented**) Record describes a periodical with individual issues not identified

2.1 Response Container

2.1.1 Correct responses are on the form

```
<searchRetrieveResponse>
<version>1.2</version>
<numberOfRecords>1</numberOfRecords>
  <records>
    <record>
      <recordSchema>info:srw/schema/5/iso20775-v1.0</recordSchema>
      <recordPacking>xml</recordPacking>
      <recordData>
```

ISO20775 Content

```
      </recordData>
    </record>
  </records>
</searchRetrieveResponse>
```

2.1.2 Error responses are on the form

```
<searchRetrieveResponse>
   <numberOfRecords>0</numberOfRecords>
   <diagnostics>
      <diagnostic>
         <message>Could not find any material for Id:50521116</message>
      </diagnostic>
   </diagnostics>
</searchRetrieveResponse>
```

2.2 Simple holding response

The simple response is returned every time a look-up is done with a Faust number that belongs to a bibliographical record where the bibliographical type (004, a) is:

- e – single item
- b – volume item
- f – subordinate item (reserved for future use)
  I – single analysis item

This is the scenario described as: Record describes a resource which is circulated as a unit.

It always contains the following information:

2.2.1 Information about the library (requested):

Data element	ISO 20775 element	Value
Identification of library	holdings.holding.institutionIdentifier.value	ISIL number (DK-761500 for Horsens)
	holdings.holding.institutionIdentifier.typeOrSource.text	"ISIL"

2.2.2 Information about the resource requested:

Data element	ISO 20775 element	Value
Id for ordering	holdings.resource.resourceIdentifier.value	Faust number
	holdings.resource.resourceIdentifier.typeOrSource.text	"SUFFICIENT"

Data element	ISO 20775 element	Value
Total number of copies	holdings.holding.holdingSimple.copiesSummary. copiesCount	Positive integer (*)
Number of copies available	holdings.holding.holdingSimple.copiesSummary.status.availableCount	Nonnegative integer
Expected dispatchdate	holdings.holding.holdingSimple.copiesSummary.status.earliestDispatchDate	If the resource is available the date TODAY + 1 is returned, otherwise the date returned is the Resource return date on the loan that is returned. Even though that the resource might have reservations.

2.2.3 Example of simple holdings response

```
<holdings>
 <holding>
  <institutionIdentifier>
   <value>DK-870970</value>
   <typeOrSource>
    <text>ISIL</text>
   </typeOrSource>
  </institutionIdentifier>
  <holdingSimple>
  <copiesSummary>
   <copiesCount>1</copiesCount>
   <status>
    <availableCount>1</availableCount>
    <availableFor>1</availableFor>
    <earliestDispatchDate>2015-03-04T16:08:09.401+01:00</earliestDispatchDate>
   </status>
  </copiesSummary>
  </holdingSimple>
 </holding>
 <resource>
  <resourceIdentifier>
   <value>50521117</value>
   <typeOrSource>
    <text>SUFFICIENT</text>
   </typeOrSource>
  </resourceIdentifier>
 </resource>
</holdings>
```

2.3 Structured holding response

The Structured response is used for Bibliographical material which is considered to be Periodica; a bibliographical record where the bibliographical category (008, t) is:

- p – Periodical

This is the scenario described as: Record describes a resource and multiple parts circulated independently

It always contains the following information:

2.3.1 Information about the library (requested):

Data element	ISO 20775 element	Value
Identification of library	holdings.holding.institutionIdentifier.value	ISIL number (DK-761500 for Horsens)
	holdings.holding.institutionIdentifier.typeOrSource.text	"ISIL"

2.3.2 Information about the resource requested:

Data element	ISO 20775 element	Value
	holdings.holding.holdingStructured.set.label	"all sets"

Each `component` element contains the following.

Data element	ISO 20775 element	Value
Id for ordering	holdings.holding.holdingStructured.set.component. pieceIdentifier.value	text
	holdings.holding.holdingStructured.set.component. pieceIdentifier.typeOrSource.text	"SUFFICIENT"
Text used to select part	holdings.holding.holdingStructured.set.component. enumerationAndCronology.text	text (*)
Availability	holdings.holding.holdingStructured.set.component. availabilityInformation.status.availabiltyStatus	0: unknown 1: available 2: not available 3: possibly available
Expected dispatch date	holdings.holding.holdingStructured.set.component. availabilityInformation.status.dateTimeAvailable	date and time

2.3.3 Example of structured holdings response

```
<holdings>
    <holding>
        <institutionIdentifier>
            <value>DK-761500</value>
            <typeOrSource>
                <text>ISIL</text>
            </typeOrSource>
        </institutionIdentifier>
```

```
            <holdingStructured>
                <set>
                    <label>all sets</label>
                    <component>
                        <pieceIdentifier>
                            <value>40719806_(number)7_(volume)7_(year)2015</value>
                            <typeOrSource>
                                <text>SUFFICIENT</text>
                            </typeOrSource>
                        </pieceIdentifier>
                        <enumerationAndChronology>
                            <text>Vol. 7, nr 7, år 2015</text>
                        </enumerationAndChronology>
                        <availabilityInformation>
                            <status>
                                <availabilityStatus>1</availabilityStatus>
                                <dateTimeAvailable>2015-08-
26T00:00:00+02:00</dateTimeAvailable>
                            </status>
                        </availabilityInformation>
                    </component>
                    <component>
                        <pieceIdentifier>
                            <value>40719806_(number)8_(volume)8_(year)2015</value>
                            <typeOrSource>
                                <text>SUFFICIENT</text>
                            </typeOrSource>
                        </pieceIdentifier>
                        <enumerationAndChronology>
                            <text>Vol. 8, nr 8, år 2015</text>
                        </enumerationAndChronology>
                        <availabilityInformation>
                            <status>
                                <availabilityStatus>2</availabilityStatus>
                            </status>
                        </availabilityInformation>
                    </component>
                </set>
            </holdingStructured>
        </holding>
</holdings>
```

2.4   ISO20775 documentation

This document is based on the official ISO20775 documentation, and it adds details specific to the Cicero ISO20775 implementation. The ISO20775 documentation can be found at:

Danish profile:

http://biblstandard.dk/ill/dk/docs/Danish_ISO_20775_profile_for_holdings_requests.htm

3   ISO20775 responses

ISO20775					ISO standard Profile / DBC	Cicero
holdings						Used
	holding				1	Used
		institutionIdentifier				ISIL-number
		physicalLocation				Not used
		physicalAddress				Not used
		electronicAddress				Not used
		holdingSimple				Used if monograph ('bind' or 'enkelt')

ISO20775				ISO standard Profile / DBC	Cicero
		copiesSummary			In use
			copiesCount		Total number of copies
			status		Expected dispatch date
				availabilityStatus	DBC does not look at this. They only use "earliestDispatchday"	"1" if lending rules in Cicero allows interlibrary loan, otherwise "2".
				availableFor		Only returns: Loan = 1, otherwise=0
				dateTimeAvailable		If "availableCount" > 0 then return today, Otherwise return earliest expected return date. Not included if material is not for interlibrary loan.
				availableCount		Larger or equal to 0.
			reservationQueueLength		number of people	Not used
			onOrderCount			Not used
		copyInformation *			Group of data elements providing details of a specific copy of physical or digital resource	Not used
			pieceIdentifier		Group of data elements that identify a specific instance of a resource	Not used
				value		Not used
				typeOrSource		Not used
			resourceIdentifier		Group of data elements identifying a bibliographic resource or its associated metadata record with an indication of a list or source list within which the identifier is unique	Not used
				value	For Danish libraries the supplying library's internal unique identifier (SupplierUniqueRecordId) be procured with holdings request, with ISO 20775 Schema for holdings information [3] (see "Danish ISO 20775 profile for holdings requests" [4]) or Z39.50 Holdings Schema [5] (see danZIG Profile Specification 2007 [6]).	Not used
				typeOrSource		Not used

ISO20775					ISO standard Profile / DBC	Cicero
			form			Not used
			monetaryValuation			Not used
			sublocation			Not used
			shelfLocator			Not used
			electronicLocator			Not used
			note			Not used
			enumerationAndChronology			Not used
			availabilityInformation			Not used
				status		Not used
					availabilityStatus	Not used
					availableFor	Not used
					dateTimeAvailable	Not used
				policy		Not used
		holdingStructured				Used if periodica. Material consist of several parts but is searched using same id (such as faust-nummer). That is, magazine/periodica (same faustnummer, many issues or volumes that can bel end out, using their own id "id-for-ordering" per issue or volume).
			set			Used
				label		"all sets"
				form		Not used
				sublocation		Not used
				shelfLocator		Not used
				electronicLocator		Not used
				completeness		Not used
				enumerationAndChronology		Not used
					startingEnumAndChronology	Not used
					endingEnumAndChronology	Not used
				unitType		Not used
				altNumbering		Not used
				note		Not used
			retention			Not used

ISO20775				ISO standard Profile / DBC	Cicero
		resourceIdentifier			Not used
		component			Return for each issue of periodical that can bel end out.
			pieceIdentifier		Used
				value	Text – Identifier at bibliographic level – such as FAUST_ÅR_VOLUME_ISSUE
				typeOrSource	"SUFFICIENT"
			form		Not used
			monetaryValuation		Not used
			sublocation		Not used
			shelfLocator		Not used
			electronicLocator		Not used
			note		Not used
			enumerationAndChronology		Used
				text	Text used to select part (eg. "Årgang 1987, December udgave"). The text should be compiled by the responding system in a way, which supports presentation of the part in a meaningful sequence, e.g. by insertion of blank characters in front of digits.
			availabilityInformation		Used
				status	Used
					availabilityStatus	"1" id material is allowed for interlibrary loans, otherwise "2".
					availableFor	Loan = 1, otherwise=0
					dateTimeAvailable	Earliest expected return date for loans. Not included if material is not available for inter library loans.
		summaryPolicy			Not used
		summaryHistory			Not used
	ressource			0..*	Used if 'bind' or 'enkelt'. Always only one resource.
		resourceIdentifier			Used
			value		If 'bind' or 'enkel' at biographic level that is FAUST.
			typeOrSource		"SUFFICIENT"
		form			Not used

ISO20775					ISO standard Profile / DBC	Cicero
		partdetail				Not used

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