NCIP Implementation Guidelines:

Collaboration between bibliotek.dk and local library systems

danZIG specification; 4

DANISH AGENCY FOR
LIBRARIES AND MEDIA

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danZIG specification; 3

Summary:
These guidelines describes a specific implementation of the Direct Consortial Borrowing: Broker Application Manages Transaction Application Profile (DCB-3). In this scenario bibliotek.dk takes the role of a broker between the end user and the local library system.

These guidelines are part of a series of specifications for technical interoperability between libraries and between libraries and partners called "danZIG specifications". The danZIG is a committee representing library system vendors, library technical interoperability consultants and national library services supplemented by libraries representatives put together by Danish Agency for Libraries and Media and chaired by the agency. The purpose of danZIG is to advise the governmental agency Danish Agency for Libraries and Media, which have the responsibility for the published specifications.

Introduction

This specification describes a specific implementation of the Direct Consortial Borrowing: Broker Application Manages Transaction Application Profile (DCB-3).

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The target group for these specifications is vendors to Danish libraries and people interested in technical interoperability in the library sector.

This specification is based on and depends on *NCIP Implementation Guidelines: Collaboration between Danish libraries and other agencies* (danZIG Specification 03).

Scope

This specification describes a specific implementation of the Direct Consortial Borrowing: Broker Application Manages Transaction Application Profile (DCB-3).

In this scenario bibliotek.dk takes the role of a broker between the end user and the local library system. In order to support a number of specific use cases in this scenario, various NCIP services have to be implemented. Through the bibliotek.dk user interface, the end user will be able to:

1. Get an overview of his or her requested and loaned items from one or more local libraries
2. Cancel his or her requests made through bibliotek.dk and/or one or more local libraries
3. Renew items borrowed from one or more libraries (including items borrowed from other libraries, ILL)
4. Request items owned by his or her own library
5. User Authenticate when requesting through bibliotek.dk (described in previously published guidelines)

Conformance

These guidelines require same level of conformance as *NCIP Implementation Guidelines: Collaboration between Danish libraries and other agencies.* Additionally, all parameters required in the DCB-3 are also required by these guidelines, unless otherwise stated in the following.

Support

Vendors of integrated library systems have stated that named systems support these guidelines from a given version. Present information at: http://biblstandard.dk/ncip/support_bibdk.htm

Services

These guidelines require implementation of the following services[1] to support this scenario and the associated use cases.

NCIP service	Local system	bibliotek.dk	DCB-3
Lookup Item Service	Responder	Requester	Required
Lookup User Service	Responder	Requester	Required
Lookup Request Service	Responder	Requester	Optional
Request Item Service	Responder	Requester	Required
Cancel Request Item Service	Responder	Requester	Optional
Renew Item Service	Responder	Requester	Required

The broker application (bibliotek.dk) is required to implement the services as requester, whereas the user agency (the local library system) shall implement the services as responder, but may also implement the services as requester when communicating directly with other user agencies in other scenarios.

For this scenario all transactions takes place between the Broker and the User Agency. The User Agency may in some cases also be the Item Agency, but this is not important for this specific scenario.

Registered schemes

In addition to the scheme extension and restrictions mentioned in the depended guidelines, the following is required to support this scenario:

Name	Note	Scheme
Item Element Type	For Item Element Type following value will always be used: • Bibliographic Description	http://www.niso.org/ncip/v1_0/schemes/itemelementtype/itemelementtype.scm
User Element Type	For User Element Type following value will always be used:	http://www.niso.org/ncip/v1_0/schemes/userelementtype/user

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[1] The basic circulation/service support required in DCB-3 is: Lookup Item, Lookup User, Renew Item, Request Item, Lookup Agency, Check in Item, Checkout Item, Recall Item, Item Shipped, Accept Item

	• Name Information	elementtype.scm

Request parameters

The password described in the interrealted guidelines (Supplementary information. Agency authentication) is defined by the individual library in the VIP database (Directory of Information Parameters for bibliotek.dk, DanBib and BOB – database of requests) to be used by bibliotek.dk in requests to local libraries.

In addition the following parameters will be sent by bibliotek.dk:
- Request Item Service
  - Unique Request Id

Response parameters

Some of the response data required in the DCB-3 is not needed in order support this scenario, and therefore it might be ignored by bibliotek.dk. The data is still required to be delivered in the responses from the local library system.

- Cancel Request Item Service:
  - Unique User Id
- Request Item Service
  - Required Item Use Restriction Type (for problem response)
  - Shipping information
  - Fiscal Transaction Information

Some data is only required if requested. The following will not be requested by bibliotek.dk.

- Cancel Request Item Service:
  - Fiscal Transaction Information
  - Item Optional Fields
  - User Optional Fields
- Lookup Item:
  - Hold Pickup Date
  - Date Recalled
  - Item Transaction
- Lookup User Service:
  - User Fiscal Account
  - Loaned Items Count
  - Requested Items Count
- Request Item Service
  - Item Optional Fields
  - User Optional Fields

For Lookup Item Service and Lookup Request Service, Bibliographic Description will always be requested by bibliotek.dk and is therefore required as part of the Item Optional Fields in the Lookup Item Response.

For Lookup User Service, Name Information will always be requested by bibliotek.dk is therefore required as part of User Optional Fields in the response.

For Renew Item Service, Date Due is optional in the DCB-3 profile. In order to support this scenario in the best possible way, Date Due is required in the response by these guidelines.

References

*NCIP Implementation Guidelines: Collaboration between Danish libraries and other agencies (*danZIG-specification 02):
http://www.bs.dk/publikationer/andre/danzig/03/

bibliotek.dk
Service: http://bibliotek.dk/
Documentation: http://www.danbib.dk/index.php?doc=bibdk

Direct Consortial Borrowing: Broker Application Manages Transaction Application Profile (DCB-3):
http://ncip.envisionware.com/application_profiles/DCB_Broker_Applicaton_Manages_Transaction.pdf

Sample Messages

Request Item Service		
Request	(to main library on FAUST rec.)	requestitem-b1.xml
Request	(to main research library)	requestitem-b2.xml
Request	(to branch public library)	requestitem-b3.xml
Request	(to mobile library bus stop)	requestitem-b4.xml
Response	(successful)	requestitemresponse-b.xml
Response	(problem)	requestitemproblem-b.xml
Lookup Item Service		
Request		lookupitem-b.xml
Response	(successful)	lookupitemresponse-b.xml
Response	(problem)	lookupitemproblem-b.xml
Lookup Request Service		
Request		lookuprequest-b.xml
Response	(successful)	lookuprequestresponse-b.xml
Response	(problem)	lookuprequestproblem-b.xml

Lookup User Service		
Request		lookupuser-b.xml
Response	(successful)	lookupuserresponse-b.xml
Response	(problem)	lookupuserproblem-b.xml
Renew Item Service		
Request		renewitem-b.xml
Response	(successful)	renewitemresponse-b.xml
Response	(pending)	renewitempending-b.xml
Response	(problem)	renewitemproblem-b.xml
Cancel Request Item Service		
Request		cancelrequestitem-b.xml
Response	(successful)	cancelrequestitemresponse-b.xml
Response	(problem)	cancelrequestitemproblem-b.xml

All example-files are stored in this directory:
http://biblstandard.dk/ncip/examples/