
Norwegian NCIP Profile v 1.1 – April 2018

Specification

Author: Erling Fossan, BIBSYS

Date: 12. April 2018

1. Use cases

Project group for Norwegian NCIP agreed in 2014 upon “Norewegian NCIP profile”, version 1.0, defining a mandatory part, and a part for later implementation, totally 8 use cases.

With version 1.1 from April 2018 we still have only the mandatory part implemented. This version however, has two new non-numbered use cases added, 4b and 9, extending the mandatory part. Version 1.1 has apart from the extentions, also clarifications and adjustments on mandatory part.

You may click the links below for sequence diagrams, illustrating the use cases.

Norwegian NCIP profile 1.1 - mandatory:

1. [Agency handshake](#)
2. [Patron pickup and return item to her Home Library](#)
3. [Order originated from Owner Library \(in Discovery\)](#)
4. [Patron renews an Item](#)
 - 4.b Owner library renews regardless of renewal request
5. [Cancels or rejects a loan request](#)
9. General message

For documentation of use cases for later implementation, see document [Norsk NCIP 1.0](#)

Messages involved

Messages that depend on key parameters explained first.

Parameters

Følgende parametre blir brukt, og er definert slik:

- FromAgency = ISIL¹ number for Home Library
 - ISIL = "NO-" + Library number from BaseBibliotek
- ToAgency = ISIL number for Owner Library
- UserID = LocalPatronID
- BibliographicID = ID
 - BibliographicRecordIdentifierCode = {OwnerLocalRecordID|ISBN|ISSN|EAN}
- ItemID = OwnerLocalSystemRecordID
 - ItemIdentifierType = {RFID|Barcode|Both (Barcode:RFID) |DOI}
- RequestId = Begge er nødvendige for at ID skal bli unik
 - <AgencyId>ISIL</AgencyId>
 - <RequestIdentifierValue>LocalOrderID</RequestIdentifierValue>
 - LocalOrderID = Local increment number on requestes
- RequestType = {"Physical"|"Digital"|"Non-returnable"|"LoanNoReservervation"|"LII"|"LIINoReservation" | "Depot"}
See Appendix C
- RequestScopeType = ["Title"] (meaning that all orders are on title level)
- DateShipped = åååå-mm-ddTxx:xx:xx (ISO 8601-2004) (Implicit GMT)
- ShippingInformation
 - StructuredAddress = Strings (Retrieved from BaseBibliotek)
- DateReceived = åååå-mm-ddTxx:xx:xx (ISO 8601-2004)
- ItemOptionalFields
 - Electronic resource (Not supported yet)
 - Actual resource (URI to full bibliographic record)
 - BibliographicDescription
 - Author 100\$a
 - PlaceOfPublication 260\$a
 - PublicationDate 260\$c
 - Publisher 260\$b
 - Title 245\$a
 - BibliographicLevel {"Book"|"Journal"|"Other"}
 - Language. Use three letter codes (ISO-639-2)
 - MediumType. Use values as defined in Implementation-part of NCIP on page 23.

¹ ISO 15511 assigns a unique ID to every library in the world.

http://en.wikipedia.org/wiki/International_Standard_Identifier_for_Libraries_and_Related_Organizations

General note concerning all NCIP messages

The initiating partner in a NCIP communication should create the RequestID, and this should be included in the whole lifecycle of that transaction. This includes also response-part, if possible. In the "Norsk NCIP-profil" the RequestID is treated as the primary key of the communication, and should always be included if it does not violate the NCIP protocol.

Initiation Header is mandatory on all NCIP messages, containing FromAgencyID and ToAgencyID. In addition the initial ItemRequested() and Request(Item) should contain FromSystemId. Implementation of this profile may serve multiple libraries, so each message must be self-contained on scope.

Shortlist of NCIP services that are used in *Norwegian NCIP profile, version 1.1*

- 1 NCIP.LookupAgency(AgencyID, [AgencyElementType])
- 2 NCIP.LookupVersion(FromAgencyID, ToAgencyID)
- 3 NCIP.RequestItem(RequestID, UserID, {ItemID|BiblioID}, RequestType, RequestScopeType)
- 4 NCIP.ItemShipped(RequestID, UserID, ItemID, Date Shipped, Shipping Information, ItemOptionalFields)
- 5 NCIP.ItemReceived(RequestId, ItemID, DateReceived)
- 6 NCIP.ItemShipped(RequestID, UserID, ItemID, Date Shipped, Shipping Information)
- 7 NCIP.ItemReceived(RequestID, ItemID, DateReceived , RequestId)
- 8 NCIP.ItemRequested(RequestID, UserID, {ItemID | BiblioID}, RequestScopeType, RequestType)
- 9 NCIP.RenewItem(UserID, ItemID)
- 10 NCIP.CancelRequestItem(RequestID, UserID, RequestType)
- 11 NCIP.CancelRequestItem(RequestID, UserID, RequestType)
- 12 NCIP.RequestItem(RequestId, UserID, {ItemID|BiblioID}, RequestType, RequestScopeType, PickupLocation)
- 13-23 Messages for later version of NNCIPP
- 24 NCIP.ItemRenewed(RequestID, UserID, ItemID)
- 25 NCIP.ItemRequestUpdated(RequestID) "General Message"

XML messages by samples are available both in zipped file with XML messages, as well as in compiled document. The messages are numbered according to the list above.

Use Cases

Each use case depends on one or more messages. The messages has numbers corresponding to numbers use in list above.

UC 1 - Agency handshake

1 - A Library System -> Another Library System:

NCIP.LookupAgency(AgencyID, [AgencyElementType])

One library ask another library about some information, like shipping address, that should be returned in the response. An AgencyID that comply with "Norsk NCIP Profil" has to include at least one ApplicationProfileSupportedType in LookupAgencyResponse containing: "NNCIPP 1.0.1" if still in development face, "NNCIPP 1.1" if it comply with the 5 mandatory use cases, updates included.

UC 2 - Patron pickup and return item to her Home Library

3 - Home Library -> Owner Library:

NCIP.RequestItem(RequestID, UserID, {ItemID|BiblioID}, RequestType, RequestScopeType)

Home request one Item from Owner, either a loan or a copy, on title level. The "{ItemID|BiblioID}" should be understood as an exclusive or - but the request is in either way on title level.

Owner Library must use Problem.Type to inform if a request for renewal is rejected. Following values are recommended to support (See Appendix B):

"Element Rule Violated" - Known and valid element contains a locally unacceptable value. For example this error would be appropriate when a "date" type includes a value outside a range deemed valid by the responding application

"Item Does Not Circulate" - Request or check out of Item cannot proceed because the Item is non-circulating ILL

"Item Not Available By Need Before Date" - Item requested will not be available by the date/time the User needs the Item

"Unknown Item" - Item is not known

4 - Owner Library -> Home Library:

NCIP.ItemShipped(RequestID, UserID, ItemID, Date Shipped, Shipping Information, ItemOptionalFields)

Owner informs that one Item is sent to Home at given date to given address

ItemOptionalFields is included to informe that the request is fulfilled with alternative Item

5 - Home Library -> Owner Library:

NCIP.ItemReceived(RequestId, ItemID, DateReceived)

Home informs Owner that Item is received at given date.

6 - Home Library -> Owner Library:

NCIP.ItemShipped(RequestID, ItemID, Date Shipped, Shipping Information)

Home informs Owner that one Item is returned at given date to given address

7 - Owner Library -> Home Library:

NCIP.ItemReceived(RequestID, ItemID, DateReceived , RequestId)

Owner informs Home that the Item is received at a given date, Home can then close RequestId

UC 3 – Request originates from Owner Library (in Discovery)

This is an alternative start on use case 2 – Pickup and return Home Library

8 – Owner Library -> Home Library:

NCIP.ItemRequested(RequestID, UserID, {ItemID | BiblioID}, RequestScopeType, RequestType)

Owner informed Home that a User request one Item from his OPAC/Discovery.

The initiating part creates the RequestID – in this case the Owner Library. For the completion, follow sequence in use case 2 – Pickup and return Home Library.

UC 4 – Patron renews an item

9 – Home Library -> Owner Library:

NCIP.RenewItem(ItemID)

Home informs Owner that Patron has requested a renewed loan on Item.

Owner Library must use Problem.Type to inform if a request for renewal is declined.

Following values are recommended to support:

"Item Not Renewable" – Item may not be renewed

"Maximum Renewals Exceeded" – The User has already renewed the Item the maximum number of times permitted.

"Renewal Not Allowed – Item Has Pending Requests" – Item may not be renewed because outstanding requests take precedence over the renewal request.

UC 4b – Owner renews an item

24 – Owner Library -> Home Library:

NCIP.ItemRenewed(ItemID)

Owner informs Home that loan is renewed.

UC 5 – Cancelling or rejecting a loan request

10 – Home Library -> Owner Library:

NCIP.CancelRequestItem(RequestID)

Home informs Owner that a Patron cancels a loan request, see Problem.Type in response for reason, according to NCIP Appendix A (See below).

11 – Owner Library -> Home Library:

NCIP.CancelRequestItem(RequestID)

Owner informs Home that loan on Item is rejected, see Problem.Type in response for reason, according to NCIP Appendix A (See below).

UC 9 – General message

25 – Message may be sent both ways:

NCIP.ItemRequestUpdated(RequestID)

Independent of ordinary steps, communicates a message to transaction partner

Appendix A:

Why is a request cancelled (by owner, actually rejected)? To be used for #11.

Select one value:

InUseOnLoan = 1

InProcess = 2

Lost = 3

NonCirculating = 4

NotOwned = 5

OnOrder = 6

VolumeIssueNotYetAvailable = 7

AtBindry = 8

Lacking = 9

NotOnShelf = 10

OnReserve = 11

PoorCondition = 12

CostsExceedsLimit = 13

Charges = 14

PrepaymentRequired = 15

LacksCopyrightCompliance = 16

NotFoundAsCited = 17

LocationsNotFound = 18

OnHold = 19

PolicyProblem = 20

MandatoryMessagingNotSupported = 21

ExpiryNotSupported = 22

RequestedDeliveryServicesNotSupported = 23

PreferredDeliveryTimeNotPossible = 24

CriticalExtensionNotSupported = 25

Other = 27

ResponderSpecific = 28

Appendix B

Why is a request is rejected? Select one value.

ProblemType	ProblemDetail
Element Rule Violated	Known and valid element contains a locally unacceptable value. For example this error would be appropriate when a "date" type includes a value outside a range deemed valid by the responding application
Item Does Not Circulate	Request or check out of Item cannot proceed because the Item is non-circulating
Item Not Available By Need Before Date	Item requested will not be available by the date/time the User needs the Item
Unknown Item	Item is not known

Appendix C

Justert	Kommentar
Physical	Alma expect Physical
Digital	Alma / Oria IL should use this for photocopy / digital delivery. Owner decide whic format to deliver.
LoanNoReservervation	For Bibliofil, may by others? Alma does not support
LII	For Bibliofil, may by others? Alma does not support
LIINoReservation	For Bibliofil, may by others? Alma does not support
Depot	For Bibliofil, may by others? Alma does not support
Non-returnable	Alma supports this, but Digital is preferred. May be used for deposited material that may be received as gift (not to be cheked in). Handled in the same way as Digital in Alma.