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# Norwegian NCIP Profile v 1.1

## Specification

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Updated: 5. May 2022: Extra details and examples (Erling Fossan, Sikt)

# 1. Use cases

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Project group for Norwegian NCIP agreed in 2014 upon 'Norewegian NCIP profile', version 1.0, defining a mandatory part, totally 5 use cases.

Version 1.0 was implemented in 2015.

With version 1.1 April 2018 we got two new use cases, case 5 and 7 in the list below, extending the mandatory part. Version 1.1 has apart from the extentions, also clarifications and adjustments added. Version 1.1 has got further clarifications related to article ILL in May 2022.

For updates from v 1.0, see document 'Norsk NCIP 1.1 Endringer fra versjon 1.0'.

## **Norwegian NCIP profile 1.1 – mandatory use cases:**

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

# Messages involved

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Messages with depending key elements explained:

## Elements

- FromSystemId = Identifying initiatin system, ex ORIA
- FromAgency = ISIL<sup>1</sup> number for Home Library
  - ISIL = 'NO-' + Library number from BaseBibliotek
- ToAgency = ISIL number for Owner Library
- UserID = Local patron Id
- BibliographicId
  - BibliographicRecordIdentifierCode = {OwnerLocalRecordID|ISBN|ISSN|EAN}
- ItemID
  - ItemIdentifierType = {RFID|Barcode|Both(Barcode:RFID)|DOI}
- RequestId = Both necessary for uniqueness:
  - AgencyId = ISIL
  - RequestIdentifierValue = LocalOrderID (Local increment number)
- RequestType = {'Physical'|'Digital'|'Non-returnable'|'LoanNoReservervation'|'LII'|'LIINoReservvation'|'Depot'}  
See Appendix C
- RequestScopeType = 'Title' (meaning that order is on title level)
- DateShipped = åååå-mm-ddTxx:xx:xx (ISO 8601-2004) (Implicit GMT)
- ShippingInformation = Strings (May be retrieved from BaseBibliotek)
  - PhysicalAddress = For physical delivery
  - ElectronicAddress = For digital delivery by e-mail
- DateReceived = åååå-mm-ddTxx:xx:xx (ISO 8601-2004)
- ItemOptionalFields
  - 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.
  - ElectronicResource = For digital delivery by e-mail or link in e-mail
    - ActualResource = 'File'
    - (No support for ReferenceToResource)
- DateDue = åååå-mm-ddTxx:xx:xx (ISO 8601-2004)
- AddRequestFields
  - Ext
    - ItemNote = String message

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<sup>1</sup> 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](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 RequestItem() should contain FromSystemId. Implementation of this profile may serve multiple libraries, so each message must be self-contained on scope.

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

M1 NCIP.LookupAgency(AgencyID, [AgencyElementType])

M2 NCIP.LookupVersion(FromAgencyID, ToAgencyID)

M3 NCIP.RequestItem(RequestID, UserID, {ItemID|BibliographicID}, RequestType, RequestScopeType)

M4 NCIP.ItemShipped(RequestID, UserID, ItemID, DateShipped, ShippingInformation, ItemOptionalFields)

M5 NCIP.ItemReceived(RequestId, ItemID, DateReceived )

M6 NCIP.ItemShipped(RequestID, UserID, ItemID, DateShipped, ShippingInformation)

M7 NCIP.ItemReceived(RequestID, ItemID, DateReceived , RequestId)

M8 NCIP.ItemRequested(RequestID, UserID, {ItemID | BibliographicID}, RequestScopeType, RequestType)

M9 NCIP.RenewItem(UserID, ItemID)

M10 NCIP.CancelRequestItem(RequestID, UserID, RequestType)

M11 NCIP.CancelRequestItem(RequestID, UserID, RequestType)

M12 NCIP.RequestItem(RequestId, UserID, {ItemID|BiblioID}, RequestType, RequestScopeType, PickupLocation)

M13-23 Messages for later version of NNCIPP

M24 NCIP.ItemRenewed(RequestID, UserID, ItemID, DateDue) # Manual update by owner

M25 NCIP.ItemRequestUpdated(RequestID, AddRequestFields) # 'General Message'

*XML messages by samples are available in compiled document 'Norsk NCIP 1.1 Eksempelmeldinger'. The messages are numbered according to the list above.*

# Use Cases

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Each use case depends on one or more messages (M1, M2 etc) . The messages have numbers corresponding to numbers used in list above.

## UC 1 – Agency handshake

M1 - 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 borrowing and returning item to her Home Library

M3 - Home Library -> Owner Library:

NCIP.RequestItem(RequestID, UserID, {ItemID|BibliographicID}, 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*

*ItemOptionalFields with BibliographicDescription should be included for information, especially if request is fulfilled with alternative Item*

M4 - 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 with BibliographicDescription is included to inform about what is actually sent*

M5 - Home Library -> Owner Library:

NCIP.ItemReceived(RequestId, ItemID, DateReceived )

*Home informs Owner that Item is received at given date.*

M6 - Home Library -> Owner Library:

NCIP.ItemShipped(RequestID, ItemID, DateShipped, ShippingInformation)

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

M7 - 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*

M8 – Owner Library -> Home Library:

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

*Owner informs Home that a User requests Item from his OPAC/Discovery.*

*Home becomes the initiating part for creating RequestID.*

*For the completion, follow sequence in UC 2.*

### **UC 4 – Patron renews an item**

M9 – 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 5 – Owner renews an item**

M24 – Owner Library -> Home Library:

NCIP.ItemRenewed(ItemID)

*Owner informs Home that loan is renewed.*

### **UC 6 – Cancelling or rejecting a loan request**

M10 – 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).*

M11 – 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 7 – General message**

M25 – 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
Unknown Item	Item is not known

## Appendix C

Revised April 2018

Justert	Kommentar
Physical	Replaced original 'Loan'
Digital	Replaced original 'Copy'
LoanNoReservervation	For Bibliofil, may by others? <b>Alma does not support</b>
LII	For Bibliofil, may by others? <b>Alma does not support</b>
LIINoReservation	For Bibliofil, may by others? <b>Alma does not support</b>
Depot	For Bibliofil, may by others? <b>Alma does not support</b>
Non-returnable	Alma supports this, but Digital is preferred. Could 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.