

**Interface Specification**

**Cicero NNCIP Specification**

## **Interface Specification**

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## 1 Introduction

This document describes the implementation of the Norwegian NCIP (NNCIP) protocol in Cicero. The following messages from NNCIP are implemented:

- LookupAgency
- CancelRequestItem
- ItemReceived
- ItemRenewed
- ItemRequested
- ItemRequest
- ItemShipped
- LookupItem
- RenewItem
- RequestItem

This document describes the following

- Relevant implementation details of the messages implemented in Cicero
- The error types of the services
- The use of NNCIP for Remote Checkin
- The integration to BaseBibliotek

### 1.1 Endpoints

The Cicero NNCIP implementation uses REST / HTTP POST.

The endpoint address for Cicero is as follows:

<https://cicero-lms.com/rest/nncip>

### 1.2 NNCIP documentation

The official NNCIP documentation and request examples can be found at

<https://bibliotekutvikling.no/kunnskapsorganisering/norsk-ncip-profil/>

## 2 Processing Error Types

The following list details a selection of error types returned by the Cicero NNCIP endpoints. The error types returned follow the official NNCIP documentation.

Note that the list is not final, and more additional error types may occur.

Context: global

Values	Content
Duplicate Request	A reservation already exists on this item for the loaner
Element Rule Violated	An element has an illegal value.
From Agency Missing	The request has no From Agency specified
Initiation Header Missing	The request has no initiation header
Invalid Message Syntax	The request is invalid syntax
Item Does Not Circulate	None of the materials can be reserved.
Item Not Checked Out	The material was not lent out
Item Not Renewable	The material loan could not be renewed
Maximum Renewals Exceeded	The max number of renewals has been reached
Needed Data Missing	Required data is missing from the request
Renewal Not Allowed - Item Has Outstanding Requests	A reservation has been made on the item and it can't be renewed
Request Already Processed	The request has already been processed
Temporary Processing Failure	Processing failed.
To Agency Missing	The request has no To Agency specified
Unknown From Agency	The From Agency is not recognized by Cicero
Unknown To Agency	The To Agency is not recognized by Cicero
Unknown Item	The material could not be found
Unknown Request	The reservation could not be found
Unknown User	The user could not be found
Unknown Value From Known Scheme	A valid element has an invalid value.
Unsupported Service	The requested service does not exist
User Blocked	The user has been blocked

## **3 Messages**

### **3.1 LookupAgency**

A library requests information about another library.

### **3.2 CancelRequestItem**

Informs the owner library of an item that a patron cancels a request for the item.

### **3.3 ItemReceived**

A library informs an item's owner library that the item is received at a given date, or the item's owner library informs a library that the item is received.

### **3.4 ItemRenewed**

Item owner informs a library that a loan is renewed.

### **3.5 ItemRequested**

A library (owner) informs another library (home) that a patron on the home library requests an item from the owner library.

#### **3.5.1 Local reservations created from NNCIP message**

If the home and owner libraries (i.e. FromAgency and ToAgency) in an ItemRequested message are on the same agency, a local reservation for the requested item will be created on the owner library, with the home library as pickup branch.

### **3.6 RequestItem**

A library (home) requests an item from another library (owner) on behalf of a patron.

### **3.7 ItemShipped**

Informs the other party that an item has been sent at a given date, along with a BibliographicDescription of what is sent.

### **3.8 LookupItem**

Requests data about a particular item.

### **3.9 RenewItem**

Asks the library (owner) to renew the loan on the given item. The response contains information about whether the loan was renewed.

### **3.10 ItemRequestUpdated**

Updates the reservation of the given item.

## 4 Remote Checkin

Cicero facilitates remote check-in (Fjernninnlevering), which allows a library in one agency to return materials to a library on another agency. This section describes the messages involved in remote check-in.

**Note:** The remote checkin functionality in Cicero should not be used for checking in materials lend out to another library as an interlibrary loan. Here, the regular checkin functionality should be used, which will send the appropriate NNCIP messages.

### 4.1 LookupItem

#### 4.1.1 Send LookupItem from Cicero

Checks if an item (material) belongs to a specific library (agency).

When initiated by a user, Cicero sends a LookupItem request to another library, expecting a response stating whether the material belongs to that library or not. Cicero can send LookupItem messages to libraries that are listed in BaseBibliotek with a valid URL, but not all libraries outside of Cicero supports the LookupItem message.

#### 4.1.2 Receive LookupItem in Cicero

When a Cicero library receives a LookupItem request, Cicero returns a response containing the material's bibliographic record information. If the material is not found by the Cicero library, Cicero returns an Unknown Item error.

### 4.2 ItemShipped

#### 4.2.1 Send ItemShipped from Cicero

Sent to the owner library when an item is remote checked in on a Cicero library.

The request informs the owner library that an item (material) is being returned to the library.

#### 4.2.2 Receive ItemShipped in Cicero

When Cicero receives an ItemShipped request, Cicero registers the material as returned, and sets the material's state to "In Transit".

## 5 Synchronization from BaseBibliotek

If synchronization with BaseBibliotek is enabled, Cicero will perform a synchronization daily which updates the library loaners (i.e. loaners of type Library) with data from BaseBibliotek. These loaners are needed in order to create interlibrary loans for incoming requests from the libraries.

The synchronization updates the existing library loaners (name, address, zip code, city, municipality code, telephone number and e-mail).

If the synchronization data contains e-mails and telephone numbers that differ from existing data, the new e-mails and telephone numbers will be added while the previous values will be retained.

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