

**Interface Specification**

FBS-14789

**Integration to National Patron Registry in  
Cicero**

# Table of Contents

- 1 Introduction ..... 3**
- 2 Synchronization to and from National Registry..... 3**
  - 2.1 Configurations for synchronization ..... 3
- 3 Scenarios for synchronizing patron data..... 4**
  - 3.1 Consent from patron to synchronization ..... 4
  - 3.2 Create patron..... 4
  - 3.3 Different scenarios for patron creation..... 5
  - 3.4 Patrons with a local library card number ..... 7
  - 3.5 Update patron ..... 7
  - 3.6 Delete patron ..... 8
  - 3.7 Enabling and disabling integration configuration ..... 8

## Interface Specification

Project: FBS-14789  
 Revision: \$Revision: 3.0\$ \$Latest major rev. date: 29 Apr 2025 08:26 UTC\$  
 Document: \$SSE/14789/IFS/0028

Copyright (c) 2025 by Systematic Group. It shall not be copied, reproduced, disclosed or otherwise made available to third party without previous consent from Systematic Group

## 1 Introduction

This document describes how Cicero interacts with the National Registry.

The target group for this document is users and stakeholders of Cicero wanting to use the integration to the National Registry.

Additional documentation for Cicero can be found in <https://ciceroconnect.zendesk.com/>

## 2 Synchronization to and from National Registry

Synchronization between Cicero and National Registry is done in the following ways:

1. By two scheduled jobs:
  - Changes from National Registry to Cicero are synchronized in the morning
  - Changes from Cicero to National Registry are synchronized at night
2. Immediate synchronization to National Registry: this is done immediately after a patron is created, updated or removed in Cicero
3. Immediate synchronization from National Registry: this is done over the NNCIP protocol, by receiving UserUpdated events that are then used to update information about the patrons

Changes in the sending system will overwrite values in the receiving system. This means that if e.g. the library card number has changed in Cicero at the time the synchronization job from Cicero runs, it will overwrite the current library card number in National Registry.

### 2.1 Configurations for synchronization

The following configurations must be set for integration with National Registry:

- Username and password for National Registry
- Enabling the integration
- Which patron data to synchronize. This can currently be chosen from the following set: Phone number, Address info (address, zipcode, city & country), Email address, Date for latest activity, Pin code, Password, Authentication level, Library Card Number.
  - If a patron is synchronized without library card number, a number will be generated from the configured library sequence.
  - If a patron is synchronized without pincode, a default pincode is created on the patron which must then be manually changed by either the librarian or the patron (through CMS API).
- Type of personal identification number needs to be set to Norwegian.
- Library needs to configure library card number sequence. Note that in order to synchronize these library card numbers, the sequence must match the one configured in National Registry.

### 3 Scenarios for synchronizing patron data

#### 3.1 Consent from patron to synchronization

Patrons need to give consent before their information can be synchronized to/from the National Registry service. The librarian can set consent for a patron in Cicero. The consent can also be set by the patron through the Cicero CMS API.

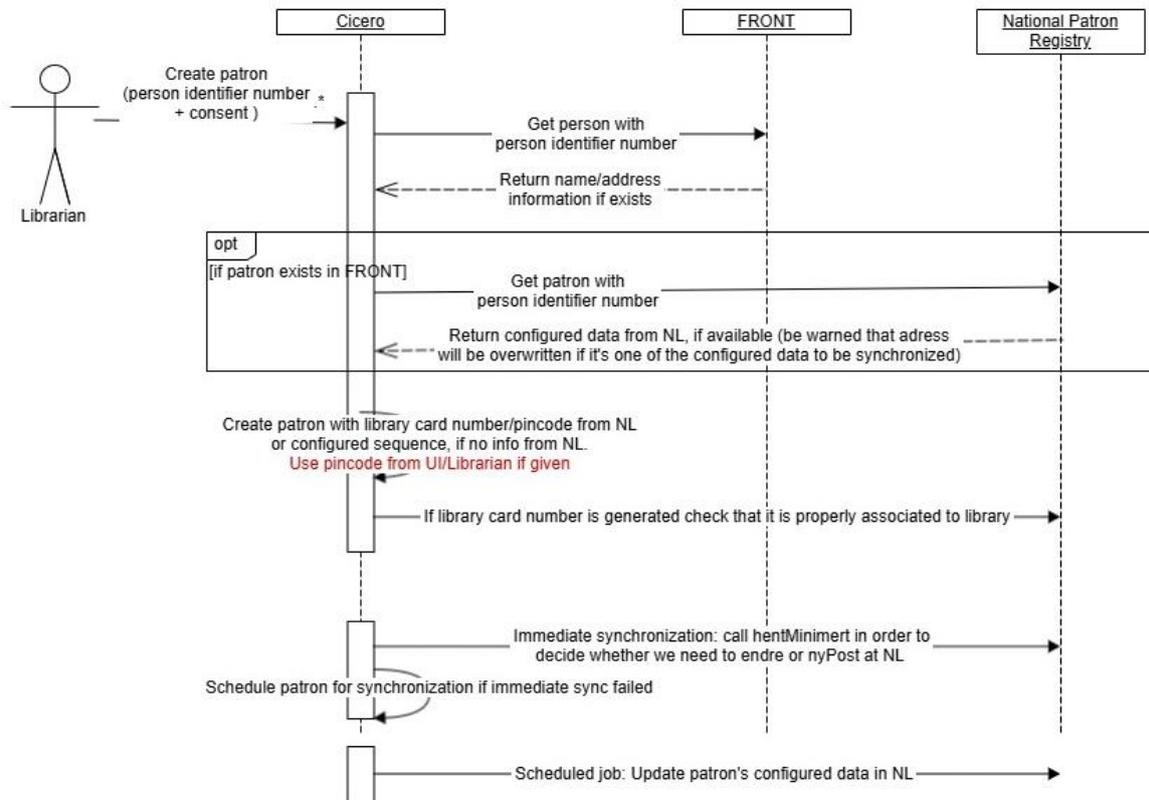
#### 3.2 Create patron

When creating a patron in Cicero, the librarian can do one of these:

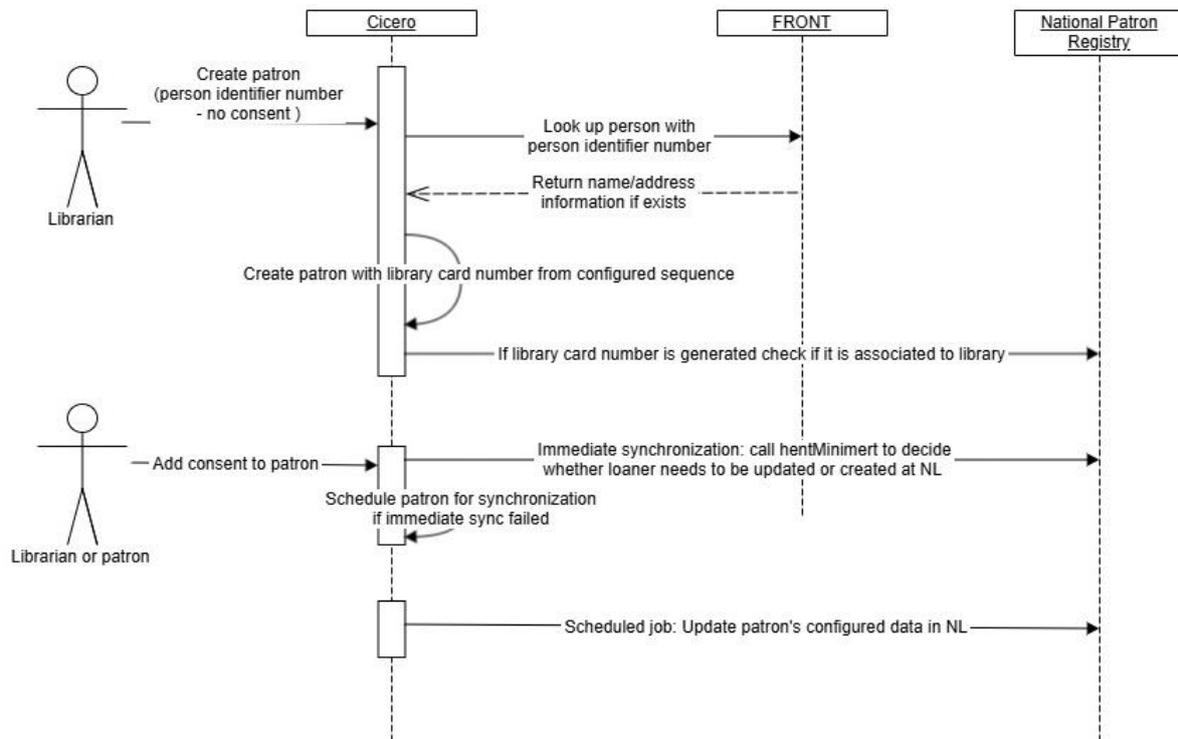
1. Create the patron with a manually-provided library card number: This will create the patron in LMS with the supplied information without looking up information in the National Registry. After creation the information will be synchronized to National Registry if consent is given.
2. Create the patron without library card number:
  - a. If the patron cannot be found in the National Registry, a library card number is generated in Cicero based on the Library card number sequence configured in Cicero. This generated card number will also be checked against National Registry to see that it belongs to the current library. All information configured on the agency is synchronized to the National Registry during patron creation.
  - b. If the patron can be found in the National Registry, the library card number and all patron data are fetched from National Registry and the patron will be created in Cicero with these values. The data fetched depend on the configuration set in the configuration in Cicero for National Registry Loaner Data.

### 3.3 Different scenarios for patron creation

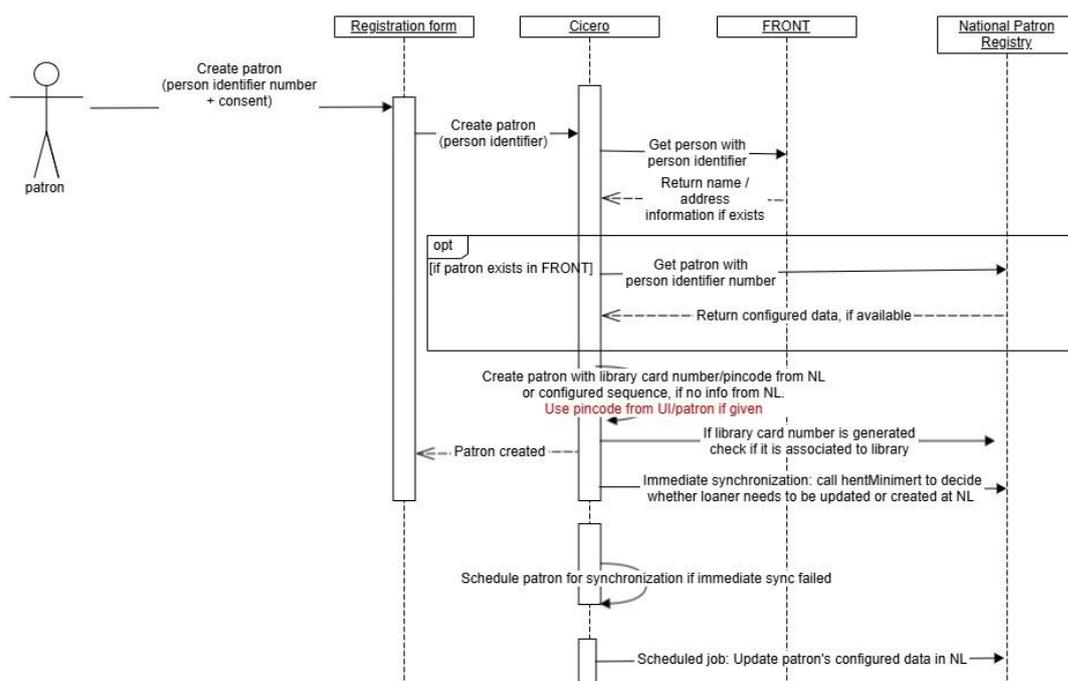
#### 3.3.1 Create patron with consent in Cicero



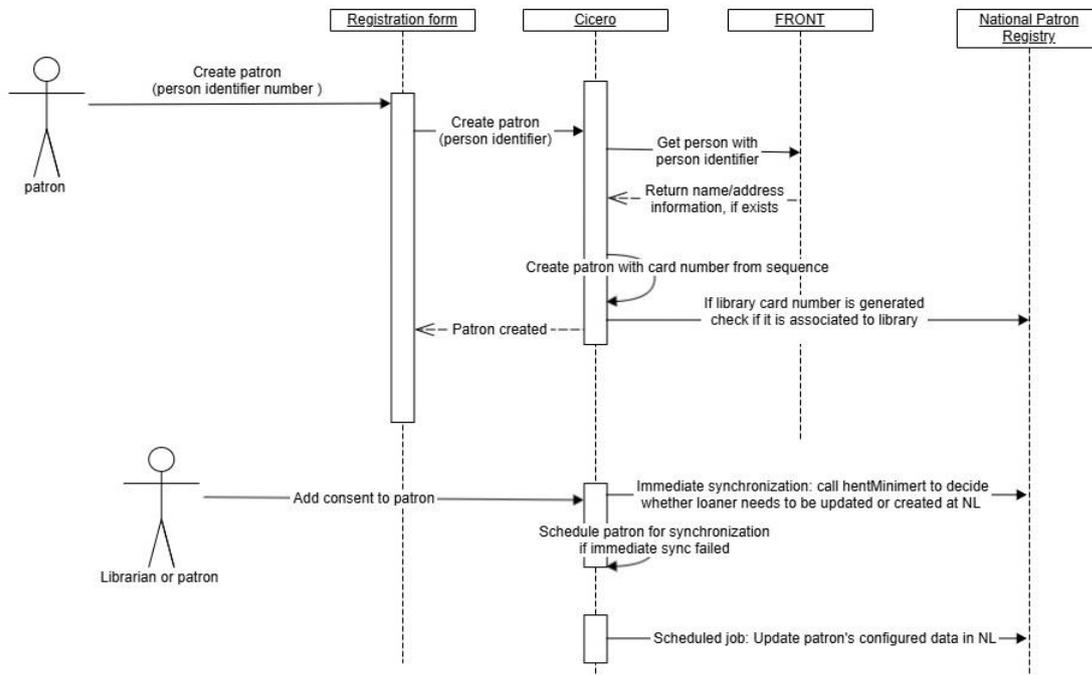
### 3.3.2 Create patron without consent in Cicero



### 3.3.3 Create patron with consent in self-service (registration form and Cicero CMS API)



### 3.3.4 Create patron without consent in self-service (registration form and Cicero CMS API)



### 3.3.5 Create patron on a new library

If the patron exists in the National Registry, but is created on a library different from the current library registered, a relation to the new library is added in National Registry.

### 3.4 Patrons with a local library card number

If a patron has a local library card number, i.e. a number that is not in the sequence defined in the National Registry, the local library card number will not be synchronized to the National Registry.

If there is a national card in the National Registry, this will be added to the patron during synchronization from National Registry, so the patron will have both the local and the national card number.

Also, library cards will be checked against a National Registry service to ensure that the library card does not belong to a different library.

### 3.5 Update patron

When a librarian updates a patron, the information that is configured to be synchronized will be sent to National Registry immediately. If the synchronization fails, the loaner's information will be scheduled by the scheduled job.

### **3.6 Delete patron**

When a librarian deletes one of the library's patrons in Cicero, the relation between the patron and the library will be removed from the National Registry.

### **3.7 Enabling and disabling integration configuration**

When the integration switch is turned on all loaners with consent are fetched from the system. For all these loaners a new synchronization task will be scheduled for the nightly job.

When the integration switch is turned off, synchronization for all loaners will be stopped. Consent will not be removed from loaners.



# SYSTEMATIC

**Denmark - HQ**  
Aarhus  
Copenhagen

**Australia**  
Canberra  
Brisbane

**New Zealand**  
Wellington

**United Arab Emirates**  
Abu Dhabi

**Canada**  
Gatineau

**Romania**  
Bucharest

**United Kingdom**  
Farnborough

**Finland**  
Tampere

**Sweden**  
Stockholm

**United States of America**  
Centreville, VA

To find more specific office details please scan the QR code below



[www.systematic.com](http://www.systematic.com)