

Interface Specification

FBS-14789

Bokbasen API Integration

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1 Introduction

This document describes how Cicero interacts with the Bokbasen reporting API.

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

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

2 Reporting of loan statistics to Bokbasen

Cicero reports nightly loan statistics to the Norwegian Bokbasen Library Loans API. This enables Bokbasen to collect lending data from Norwegian public libraries for statistical and rights management purposes.

Reporting is done by a scheduled job that runs once per night and submits one loan report per calendar day to the Bokbasen API.

API description can be found here:

<https://bokbasen.jira.com/wiki/spaces/api/pages/3780345857/Library+loans>

2.1 Data transferred

Each night, the scheduler collects all material loans from the previous calendar day and submits them to Bokbasen as a structured JSON payload. The report covers the period from 00:00 to 23:59:59 of the previous day.

Only loans of materials with a mappable format are included. Bokbasen accepts three formats:

- **AUDIO** — audiobooks (CD, cassette, DAISY, online audiobook, etc.)
- **EBOOK** — electronic books
- **PAPER** — physical books, newspapers, serials, musical scores, manuscripts

Loans of other material types (DVD, Blu-ray, computer games, etc.) are excluded from the report.

Each submitted loan includes:

- A deterministic transaction ID derived from the loan's database ID
- The loan timestamp (UTC)
- The material's EAN (ISBN-13), title, authors, format, and language
- Anonymised borrower information: whether the borrower is a person, their age (if available), and their gender (MALE, FEMALE, or UNKNOWN)
- The library's identity in the report is derived from the agency ISIL and the library information configured in Cicero (see section 3).

3 Configuration

The following must be configured before Bokbasen loan reporting can be used:

Agency configuration (per library, set in Administration → Advanced Settings → Other Integrations → Bokbasen):

Field	Description
Enabled	Whether Bokbasen loan reporting is active for this agency
Library name	The library's display name as it will appear in the report
Library type	The library type (e.g. Folkebibliotek)
Postal code	4-digit Norwegian postal code for the library's location
Municipality	Municipality name
County	County name

The agency's ISIL (library number) is used automatically as the library identifier in each report — it does not need to be configured separately.

Location fields (postal code, municipality, county) are optional. If provided, all three must be valid; if any is missing or invalid, the location block is omitted from the report.

4 Authentication

Bokbasen uses OAuth2 client credentials flow. The scheduler obtains a bearer token from the configured token endpoint before each reporting session. Tokens are cached in memory and reused until they expire. The OAuth2 audience is derived automatically from the configured bokbasen.client.endpoint.

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