

# NILL - Norwegian ILL protocol

Version of this document: 0.1 - 2011-03-04

## Documentation

- <http://www.biblev.no/nill/> (in Norwegian)

## Basics

- The protocol describes a set of XML messages that are passed between systems over SMTP. Messages are in the body of emails, not sent as attachments.
- ILL requests are made at the biblio-level, not at the item level.

## DTD for messages

<http://www.biblev.no/dtd/nill.dtd>

This covers the two types of messages:

- Requests (Norwegian: bestilling)
- Receipts (Norwegian: kvittering)

## Encoding

All messages should be in UTF-8 or ISO-8859-1 and start with one of these:

```
<?xml version="1.0" encoding="ISO-8859-1"?>  
<?xml version='1.0' encoding='UTF-8'?>
```

## Message flow

- Upon receiving an ILL request, the receiving library should return a receipt as soon as possible.
- The receipt should contain a MARC record for the requested document, which the requesting library can include in its catalogue, to serve as a record of the loan.
- The receipt can also have a status of “cancelled”. Then the transaction is considered finished.

## What we need

### In the OPAC

- A form for placing ILL requests, with at least these fields:
  - bestlokid - patron ID for the patron the ILL request is made on behalf of
  - bestrefr - a field for some identifier chosen by the requesting library (possibly an

- Comments to the library that receives the request
  - Comments internal to requesting library
- When the form is submitted, a request message should be sent to the library the owns the OPAC

Library systems tend to hide this form from regular patrons, making it available only after a library has logged in with their “national library ID” and some password. The ID and the password is maintained in a national database of libraries, maintained by the national library. The data is available in two forms:

- XML files for download, updated nightly. There is one big file with all the data + files that contain just the latest changes. This could be imported into Koha with a cron job. These files are password protected and contains the password in clear text.
- There is also a REST webservice, where data can be found on the fly. This is not password protected and passwords are encrypted with the blowfish algorithm:
  - <http://www.nb.no/BaseBibliotekSearch/rest/bibkode/deichm>
  - <http://www.nb.no/BaseBibliotekSearch/rest/bibnr/2030000>
  - [http://www.nb.no/BaseBibliotekSearch/rest/bibnr/2030000/epost\\_nill](http://www.nb.no/BaseBibliotekSearch/rest/bibnr/2030000/epost_nill)
  - [http://www.nb.no/BaseBibliotekSearch/rest/bibnr/2030000/epost\\_nillkvitt](http://www.nb.no/BaseBibliotekSearch/rest/bibnr/2030000/epost_nillkvitt)

**Patron initiated ILL** seems to depend on communicating with the “National patron ID” system - this needs some more research. It might not be necessary at stage 1 of an implementation.

## In the staff client

- We will probably need an “ILL” privilege, so that only designated members of staff can do ILL.
- A cron job that checks for new email messages regularly, and imports them into the database, extracting relevant pieces of information
- A “dashboard” for viewing new messages
  - New requests made by other libraries
    - A way to respond to new requests with one of these responses
      - Request received
      - Request cancelled (denied)
    - A way to print out requests for further processing (picking from the shelves etc), probably one request per page
  - A way to respond to received requests with a “Material sent” message
  - New responses to requests made by this library
    - Request received/Material sent
      - Add the message to the history of it’s ILL transaction
      - Add the MARC record (if there is one) to the catalogue (hidden from the OPAC) so that a loan can be made to the patron when the item arrives
    - Request cancelled

- Mark the message as received (the ILL librarian must then make another request to another library, independent of this request)
- Some way to mark received items as received when they physically arrive in the library, making them available for loan
- Some way to see items ordered through ILL but not yet received, and their status (either Request received or Material sent)
- Loaning and returning the item to the patron should probably work much the same way as any other loan, there should not be a separate interface for lending ILL materials to patrons (I think). It should be possible to set a default loan period for ILL materials.
- If the patron requests a *copy*, there needs to be some sort of trace of it to be able to do statistics on it, but it should preferably not show up as an “everlasting loan” on the patron’s status.

## Example messages

See <http://www.biblev.no/nill/#AEN247>

Translations of the text accompanying the examples:

A.1. Bestilling av lån	Request for loan
Låner 6310481, Naturvårdsverket: Miljöbiblioteket, bestiller local-ref dokid-452002 hos 2070400, Tønsberg og Nøtterøy bibliotek.	“Library number 6310481, Naturvårdsverket: Miljöbiblioteket” places a request for “local-ref dokid-452002” from “library number 2070400, Tønsberg og Nøtterøy bibliotek”.
A.2. Kvittering	Receipt
Kvittering for mottatt bestilling.	Receipt - request received
Kvittering for sendt materiale.	Receipt - material sent
A.3. Bestilling av kopi	Request for copy (from a book)
Låner 2052100, Øyer folkebibliotek, bestiller elektronisk kopi fra 1160103, UB i Trondheim.	“Library number Låner 2052100, Øyer public library” requests an electronic copy from “library number 1160103, UB i Trondheim”
A.4. Kvittering	Receipt
Kvittering for sendt materiale	Receipt - material sent
A.5. Bestilling av artikkelkopi	Request for article copy
Låner 6310481, bestiller kopi av artikkel i tidsskrift	Patron 6310481, requesting a copy of a journal article
A.6. Lånerinitiert innlån, bestilling	Patron initiated ILL, request

Låner N123456789, bestiller selv et innlån fra 2080600, Skien, med levering på 2010600, Fredrikstad.	Patron N123456789 places a request for an item from "library number 2080600, Skien", to be picked up at "library number 2010600, Fredrikstad"
A.7. Lånerinitiert innlån, kvittering	Patron initiated ILL, receipt
Kvittering for sendt materiale.	Receipt - material sent

## Appendix

### What placing a request looks like in the BIBSYS OPAC

A non-BIBSYS library that wishes to place an ILL request for something in BIBSYS must be logged in to BIBSYS with their library number and a password created by BIBSYS. When logged in the record display includes links to the request form ("Bestill"):

Beskrivelse

Visningsformat:



Søkekilde: Bibliotekbasen  
Objektid: 060147067

[\[Legg i Samlekurv\]](#)

**Tittel:** Les Misérables / fransk originaltekst av Alain Boublil og Jean-Marc Natel ; sangtekster av Herbert Kretzmer ; til norsk ved Bjørn Endreson

**Forfatter:** [Boublil, Alain](#)  
[Natel, Jean](#)  
[Kretzmer, Herbert](#)  
[Endreson, Bjørn 1922-1998](#)  
[Hugo, Victor](#)

**Årstill:** 2005

**Trykt:** Trondheim : Trøndelag teater

**Sidetall:** 180 bl. ; 30 cm

**Noter:** Teatermanus  
Katalogisert etter omslag  
"Rettingheter: Josef Weinberger Limited, London"  
Basert på romanen av Victor Hugo  
Premiere: Trøndelag teater, Hovedscenen 25. febr. 2006

Bibliotek	Hvor er dokumentet	Utlånsstatus / merknad
<b>NTNU Universitetsbiblioteket</b>		
<a href="#">GUNNERUSBIBLIOTEKET</a>	<input type="button" value="Kart"/> GUNNERUS, XT, 2006.3	<a href="#">[Bestill]</a>
<a href="#">GUNNERUSBIBLIOTEKET</a>	<input type="button" value="Kart"/> GUNNERUS, qK, 91	(Kun lesesalsbruk) <a href="#">[Bestill]</a>
<b>Nasjonalbiblioteket</b>		
<a href="#">Bevaringsamlingen</a>	<input type="button" value="Kart"/> NB/BEV, a	[Ikke utlån]
<a href="#">Brukssamlingen i Oslo</a>	<input type="button" value="Kart"/> NB/BRU, qTS 30	(h.) (Til bruk i Håndskriftsaml.) <a href="#">[Bestill]</a>
<a href="#">Brukssamlingen i Oslo</a>	<input type="button" value="Kart"/> NB/BRU, qSmåtr. 1216	(h.) (Ikke til hjemlån) <a href="#">[Bestill]</a>
<a href="#">Depotbiblioteket</a>	<input type="button" value="Kart"/> NB/DEP	(Ikke til hjemlån) <a href="#">[Bestill]</a>
<b>Universitetsbiblioteket i Bergen</b>		
<a href="#">Bibliotek for humaniora</a>	UBBHF, S box 581	[Ikke utlån] <a href="#">[Bestill]</a>

Send til

Send til e-post  på format

Søk etter dokumentet i:



Clicking on "Bestill" leads to the actual request form:

LåntakerID:

Institusjonsnavn

Bestillings-ID:

Bestilt til (lånernr.):



Kommentar:

Bestillers egen kommentar:

Oppgi betalers låntakerID hvis andre enn låntaker skal betale:

Oppgi fax-nummer (frivillig):

Kryss av dersom du ønsker viderebestilling fra annet bibliotek (hvis ditt bibliotek ikke har boka):

Kopier/Lån kan koste penger! Kontakt biblioteket.

Du har valgt følgende dokumenter for bestilling/reservering

<input checked="" type="checkbox"/> Tittel	Forfatter	År	Materiale	Lån	Kopi	Søkekilder
<input checked="" type="checkbox"/> <a href="#">Les Misérables</a>	Boublil, Alain Natel, Jean Kretzmer, Herbert..m.fl..	2005			<input type="radio"/>	Bibliotekbasen
<input checked="" type="checkbox"/> Merk alle						

[\[Send bestilling/reservering\]](#)