

How to Export KB Resources to Primo

Version 4.x



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Overview

This section includes:

- **Objectives** on page 5
- General Description on page 5

Objectives

The objectives are for Primo (the Harvester) to initiate a request for KnowledgeBase Resources and Categories from MetaLib (the Repository), and for MetaLib to transfer the data in OAI-PMH format to Primo using a standard file transfer protocol (FTP/SFTP).

General Description

MetaLib provides several methods for exporting the resouces:

- Via a batch process which can be scheduled on a regular basis, including a parameter to determine the content of the export:
- Full local KB export from all the local institutions in the MetaLib institutional setup
- Export of the local KBs for a specific group of institutions
- Export of the local KBs for a specific institution.
- Via the MetaLib Management Interface, for export of resources from a specific institution on demand.

MetaLib operates the utility as a fresh export. This means that each process exports all of the active resources for all of the selected institutions.

For each institution, a separate XML output file is created, containing the exported records. The XML file contains a header record, which is based on the

OAI-PMH protocol, with an element describing a unique identifier and a status per each record.

NOTE:

All local fields are retained as part of the export, including authentication data.

The XML files are packaged per institution into zipped tar files, each with a unique name.

At the end of the export process, the export packages are copied to a pre-defined dedicated directory for delivery purposes (FTP/SFTP).

Setting up the Export Process

This section includes:

- Configuring the Export Directory on page 7
- Running the Export via Cron on page 8

Configuring the Export Directory

Before activating the export process for the first time, it is necessary to configure the dedicated directory for the exported files.

To configure the export directory:

1 Define the environment parameter **primo_export** in the ./metalib_conf/ metalib_start file, as follows:

cd \$metalib_conf

vi metalib_start

2 Add the following line to the end of the file:

setenv primo_export \$dat01_dev/dat01/export

- 3 Exit and save the changes to the file.
- 4 Enter the following commands in order for MetaLib to recognize the new parameter:

```
source metalib_start
```

```
metalib_conf_create
```

NOTE:

The value defined above is the default directory.

When using NFS (Network File System), it is possible to define any other directory recognized by the network.

Running the Export via Cron

The Export KnowledgeBase Resources to Primo utility can be set up to run automatically as a cron job. The cron job script (primo_export.cron) is located under the ./aleph/proc directory.

Make sure that this file is executable. If it is not executable, use the chmod command to set it as follows:

chmod +x \$aleph_proc/primo_export.cron

The primo_export.cron script requires input parameters for execution. The parameters are in the following format, where <LIBRARY>=DAT01 and <SELECTION>={ALL | GROUPNAME | INSTITUTION_CODE}:

<LIBRARY>,<SELECTION>,<email>

To add the export cron job to your cron jobs list, log in as a metalib user:

For SUN machines, enter the following commands:

setenv EDITOR vi

crontab -e

For Linux machines, enter the following command:

crontab -e -u metalib

Add the cron job, as required.

Example 1: Full Export from All the Institutions

For all institutions, the following cron job runs the primo_export.cron every day at 6 a.m.:

```
# Run primo_export.cron every day at 6 a.m. for all institutions:
0 6 * * * /exlibris/metalib/m4_1/aleph/proc/primo_export.cron
"DAT01,ALL,central.admin@myuni.co.ac"
```

Example 2: Export of Institutions Affiliated with a Group

For **mygroup** group, the following cron job runs the primo_export.cron every day at 6 a.m.:

```
# Run primo_export.cron every day at 6 a.m. for mygroup:
0 6 * * * /exlibris/metalib/m4_1/aleph/proc/primo_export.cron
"DAT01,MYGROUP,central.admin@myuni.co.ac"
```

Example 3: Single Institution

For the **openu** institution, the following cron job runs the primo_export.cron every day at 6 a.m.:

```
# Run primo_export.cron every day at 6 a.m. for openu:
0 6 * * * /exlibris/metalib/m4_1/aleph/proc/primo_export.cron
"DAT01,OPENU,central.admin@myuni.co.ac"
```

The procedure creates the p_primo.log log file under the ./dat01/scratch directory and sends an e-mail message on completion if the recipient's address is supplied.

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Running the Export from the Management Interface (/M)

This document contains the instructions used to export the KB resources to Primo. In the following example, the management user is Central Administration and the group is CENTRAL.

To export resources from a specific institution on demand:

- 1 Log in to the Management Interface (/M) as Institutional or Group Administrator.
- 2 Click **GO TO ONGOING MENU** to display the MetaLib Ongoing Main menu.



Figure 1: MetaLib Ongoing Main Menu

3 Click **Export-Import Procedures** to access the Export and Import Procedures page.



Figure 2: Export and Import Procedures Page

4 Click Export KnowledgeBase Resources to Primo to display the .

Export Kn	owledgeBase Resources to Primo
Export will be p fields will be re background.	erformed on active Resources only. All local tained, and process will be run in the
Institution:	Central Administration 💌
Email address:	
SUBMIT	CANCEL

Figure 3: Export KnowledgeBase Resources to Primo Page

5 If you are an Institutional administrator, enter a valid e-mail address and click **SUBMIT**.

If you are a Group administrator, you must first select an institution from the Institution drop-down list, as shown in the following figure.

Export Kn	owledgeBase Resources to Primo
Export will be p fields will be re background.	erformed on active Resources only. All local tained, and process will be run in the
Institution:	Central Administration 💌
Email address:	Central Administration LAW BUSINESS
SUBMIT	OPENU IDC BGU

Figure 4: List of Institutions in Group

Select the required institution from the list-for example, **OPENU**.

Export Kn	owledgeBase Resources to Primo
Export will be p fields will be re background.	erformed on active Resources only. All local tained, and process will be run in the
Institution:	OPENU
Email address:	central.admin@myuni.co.ac
SUBMIT	CANCEL

Figure 5: Institution Selected for Export

6 Click **SUBMIT** to proceed with the export.



Figure 6: Export Message

7 Click **OK**to start the export and return to the Export and Import Procedures page.

If you specified an e-mail address, a status message is sent to the recipient after the process completes. For example:

OPENU

Figure 7: Example of E-Mail on Completion of Export

The exported data, which is in XML format, is placed in compressed tar files under the designated output directory. The general format of the output file is:

```
<INST>.<DATE_TIME>.tar.gz.
```

For the above example, the following file was created and transferred to the ./dat01/export directory:

```
OPENU.20070504130515.tar.gz
```

A

XML Output File Format

The XML record for each resource is made up of several elements. The main element is the <knowledge_unit>.

Each knowledge unit contains the following elements:

- <record>—This element contains all the fields from the IRD (Information Resource Description)
- <z58_base>—This element contains all the fields from the configuration record. The format of the sub-elements is dependent on the access method.
- <category>—If the resource is assigned to one or more categories, this element is displayed with the main and subcategories.

The general structure of the XML file is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<file xmlns="http://www.loc.gov/standards/marcxml/schema/
MARC21slim.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.loc.gov/standards/marcxml/schema/
MARC21slim.xsd
http://il-mldev02:8337/aleph-cgi/load_schema.pl">
<knowledge_unit>
<record>
  <controlfield tag="001">ABCnnnnn</controlfield>
  <datafield tag="245" ind1="1" ind2=" ">
    <subfield code="a">Resource Name</subfield>
  </datafield>
. . .
</record>
<z58 base='CONFCODE'>
  <field name='z58_base'>CONFCODE</field>
  <field name='z58_access_method'>Access Method</field>
•••
</z58>
```

```
<category>
<main>main1</main>
<sub>sub1</sub>
...
</category>
</knowledge_unit>
```

The following figure shows an example of the header record and some of the elements in the XML file from the OPENU institution for the Library of Congress resource:



Figure 8: Example of <record> in XML file