Alma

How To Publish to an External System Using the Generic Publishing Profile and OAI

ExLibris
The bridge to knowledge

Copyright Statement

How To...

Publish to an External System Using the Generic Publishing Profile and OAI

Introduction

Required Permissions

Initial setup

The Publishing Results

Ongoing Publishing

OAI Setup

OAI Retrieval

ExLibris

Introduction

- It is possible in Alma to create a publishing profile based on specific institutional needs.

- The profile can:
  - Be customized to run on a specific logical set
  - Have a normalization routine run on all published records
  - Include inventory data expanded into bibliographic data from both physical and electronic inventory
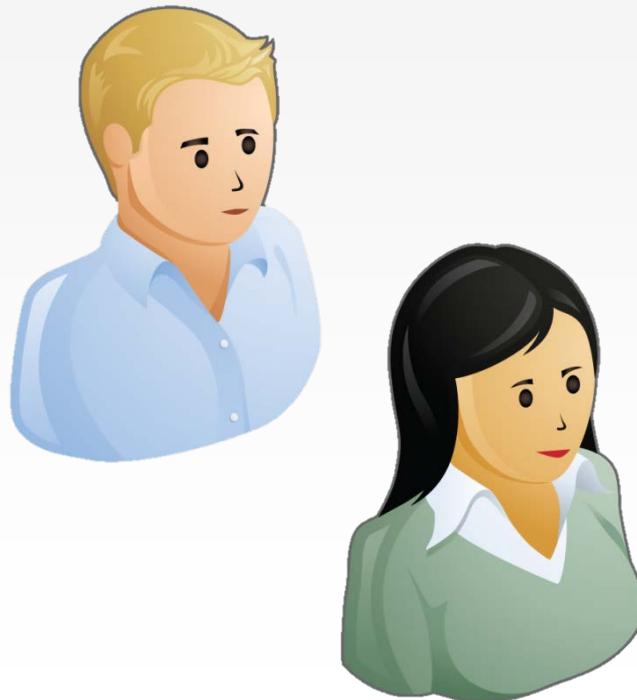
Introduction

- The data is published incrementally and can be done:

  - To an actual file (MARC binary or MARC xml)

  - Via OAI-PMH

- In other words, rather than creating a separate "hard-coded" publishing profile for each separate system, Alma provides a mechanism whereby specific aspects of a publishing profile can be customized.

ExLibris

Introduction

- Thus each institution essentially can make its own publishing profile.

- In this presentation, we will make a sample profile called "London Library".

ExLibris

Required Permissions

- The following roles can publish to an external system using the generic publishing profile and OAI:
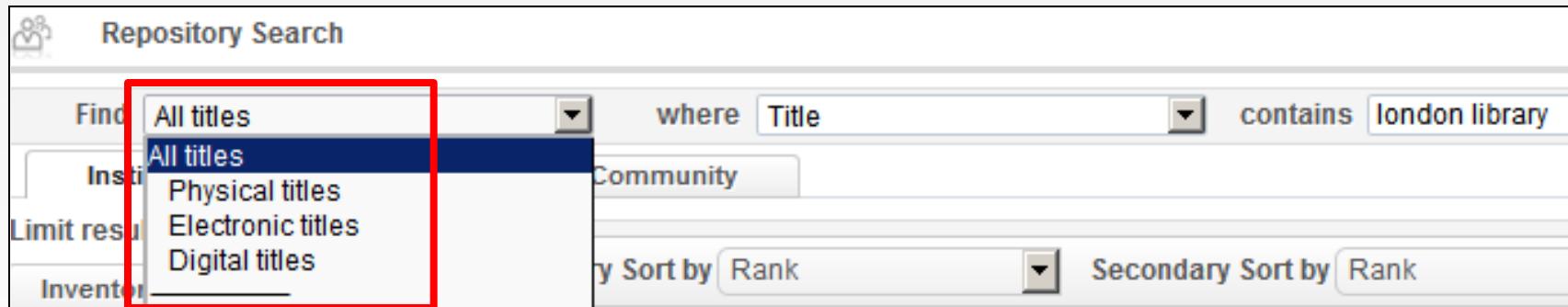

- Cataloging Administrator

- General System Administrator

ExLibris

Initial Setup

- The first step is to create a logical or itemized set (or identify an existing set) that includes all records to be published.

- A typical set is "all records that are not suppressed".

- It can be named "tag suppressed equals false".

- We will make a set where word from title is "London library" and the record is not suppressed.

Initial Setup

- The set may be of type "All Titles" and other "titles" sets.

Initial Setup

The Search

Advanced Search

Find [All titles ▼]

[Add conditions]

All titles

Find Title   [Contains Keywords ▼] [London Library]

[And ▼] Tag Suppressed   [Equals ▼]   [No]

[Clear conditions]

The Set

✓ subject includes library   Logical   All Titles

ExLibris

Initial Setup

- The second step is to create or identify a normalization routine that you want to run on the records as they are published.

- This routine is called "Remove 9XX and add YILIS". It removes all local 9XX fields and then adds a 900 field with the text "From YILIS Institute".

```
Remove 9XX and add YILIS
rule "Remove 9XX and add YILIS"
when
  (TRUE)
then
  removeField "9*"
  addField "900.a.From YILIS Institute"
end
```

ExLibris

Initial Setup

- The rule (or rules) are then added to a normalization process.

- This is because in the publishing profile, only a process may be chosen (not the actual rule).

- Process "Remove 9XX and add YILIS".

Initial Setup

- The third step is to add the profile.

- It uses the set and normalization routine from steps one and two.

- Select Resource Management Configuration Menu > Record Export > Publishing profiles > Add profile > Export Profile.

Initial Setup

- The profile details:

Profile Details	Data Enrichment	OAI Publishing

Profile Name * London Library

Profile Description

The set which will be published

Will be published once a month

Status ⊙Active ○Inactive

Scheduling On the 01 of every month ▼ Email Notifications

Content

Set name * London Library not suppressed

FTP server where output will be located

Publishing Protocol

FTP configuration * ftp.exlibris.co.il ▼

Files Configuration

Single File Configuration

MARC output format MARC21 XML ▼

Compressed File Configuration

Compressed file name prefix * LL

Results can be in Marc or Marc xml

ExLibris

Initial Setup

- The profile data enrichment:

The normalization process

holding field 852 subfields b. c and h are defined to transfer to the bibliographic record also as 852 b, c and h

Here portfolio information will be published as bibliographic field 859

Initial Setup

- OAI Publishing information
- Here we define "Enable Publishing to OAI Data Provider" with:
  - Set Spec = LLSS
  - Set name = LLSN

The Publishing Results

- The publishing works as follows:

- The first time it runs, all records in the logical set are published.

- Each subsequent time it runs, the following are published:

  - New records in the logical set

  - Updated records in the logical set

  - Deleted records that were in the logical set

The Publishing Results

- Deleted Records include records that still exist (are not deleted) but are no longer part of the logical set.

- The deleted and no longer part of the logical set records are published with a "d" in position 5 of the LDR so that the receiving system knows they are deleted.

The Publishing Results

- The results appear on the ftp server:

/YILIS/publish

Name ▲ Ext	Size
LL_IEP_new_1405350372868_1689866970001121.tar.gz	12,152 B

- This is the first publishing.

- Here the file name begins "LL".

- The prefix LL in the file name comes from here in the profile.

Files Configuration

Single File Configuration

MARC output format   MARC21 XML

Compressed File Configuration

Compressed file name prefix * LL

ExLibris

The Publishing Results

- After opening the tar.gz file there are many MARC xml files:

Files Configuration

Single File Configuration

MARC output format   MARC21 XML

Compressed File Configuration

Compressed file name prefix * LL

Name

LL_IEP_new_1405350372868_1689866970001121.tar
LL_IEP_new_1405350372868_1689866970001121.tar.gz
2120496860001121.xml
2120889940001121.xml
2121887600001121.xml
2122823410001121.xml
2123037110001121.xml
2123100240001121.xml
2123306790001121.xml
2124242260001121.xml
2124416950001121.xml
2124438530001121.xml
2124442710001121.xml
2126887970001121.xml
2127344630001121.xml
2127648630001121.xml

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The Publishing Results
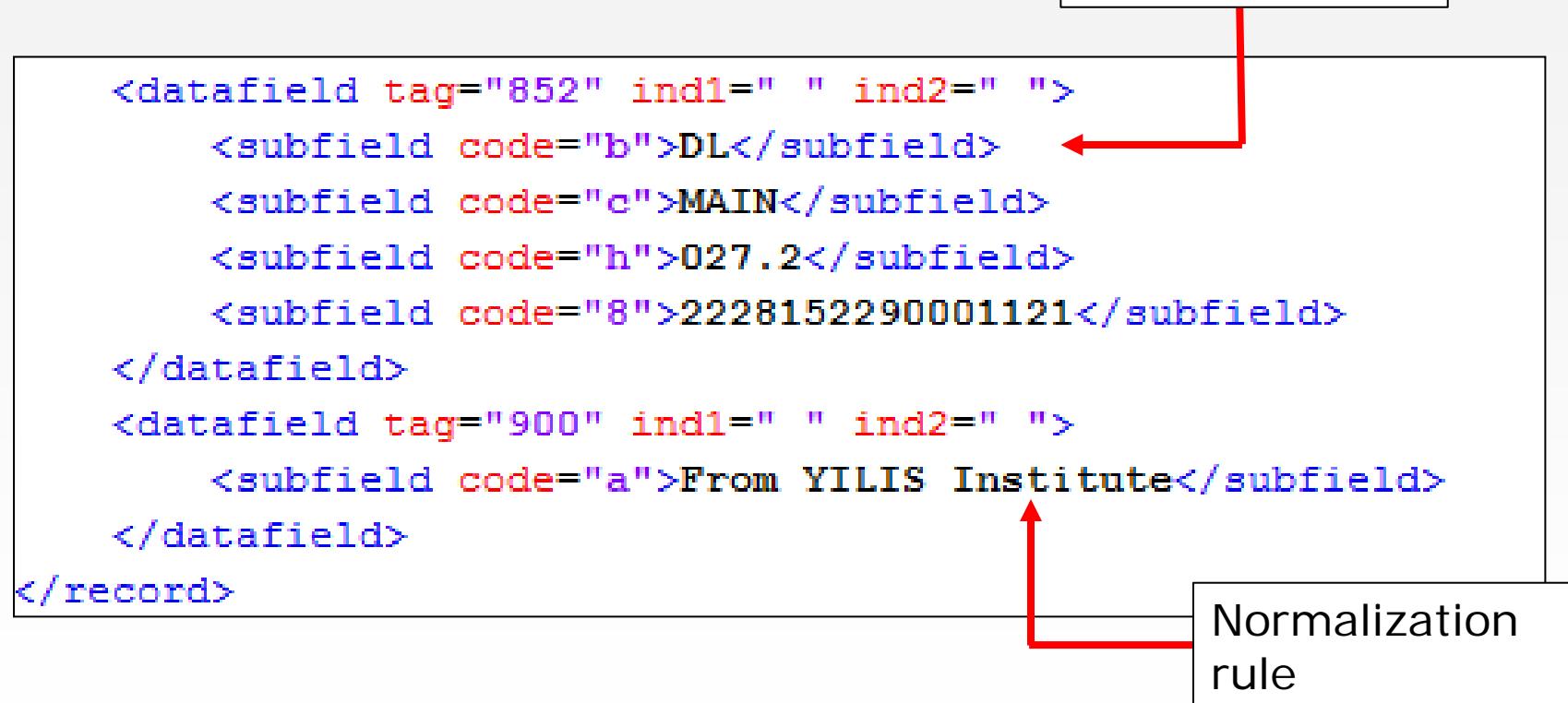
For Physical Inventory:

On the next slide we see that the results include:

- The normalization rule specific in the "Bibliographic Normalization" section of the "Data Enrichment" tab of the publishing profile.

- The holdings data as specific in the rule specific in the "Physical Inventory Enrichment" section of the "Data Enrichment" tab of the publishing profile.

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The Publishing Results

- Holding information:

Holdings data

Normalization rule

```
<datafield tag="852" ind1=" " ind2=" ">
    <subfield code="b">DL</subfield>
    <subfield code="c">MAIN</subfield>
    <subfield code="h">027.2</subfield>
    <subfield code="8">22281522290001121</subfield>
</datafield>
<datafield tag="900" ind1=" " ind2=" ">
    <subfield code="a">From YILIS Institute</subfield>
</datafield>
</record>
```

ExLibris

The Publishing Results

For Electronic Inventory:

In the next slide we see that the results include:

- The normalization rule specific in the "Bibliographic Normalization" section of the "Data Enrichment" tab of the publishing profile.

- The portfolio data as specific in the rule specific in the "Electronic Inventory Enrichment" section of the "Data Enrichment" tab of the publishing profile.

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The Publishing Results

- Holding information:

Portfolio data

```
<datafield tag="859" ind1=" " ind2=" ">
    <subfield code="b">Free E- Journals</subfield>
    <subfield code="a">Free E- Journals</subfield>
    <subfield code="u">
    http://www.university.com/?u.ignore_date_coverage=true&amp;
    rft.mms_id=9911756590001121</subfield>
</datafield>
<datafield tag="900" ind1=" " ind2=" ">
    <subfield code="a">From YILIS Institute</subfield>
</datafield>
</record>
```

Normalization rule

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Ongoing Publishing

- Now a new record with physical inventory is added which meets the criteria of the set:

Working on -An in depth study of (9920969241401121) , Created by exl_support (14/07/2014 16:52:50 BST)

LDR			00282nam#a2200097#u#4500
001			9920969241401121
005			20140714165250.0
008			140714s2013####xx########r#####000#0#eng#d
100	1		$$a Kortick, Yoel $$d 1971-
245	1	3	$$a An in depth study of the London library in the modern era
650		0	$$a Libraries $$z London

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Ongoing Publishing

- A portfolio in the set is edited (updated):

Ongoing Publishing

- As a result two new files are created in the ftp server:
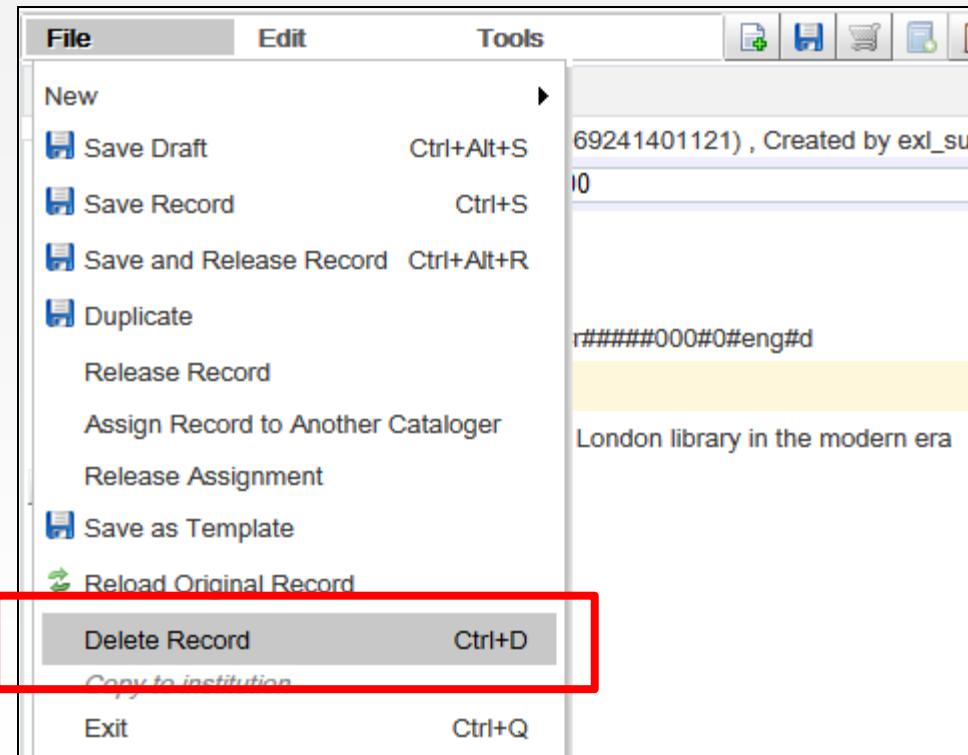
Tar.gz file with new records includes "new" in file name

/YILIS/publish

Name	Ext
LL_IEP_new_1405353447158_1689882940001121.tar.gz	
LL_IEE_updated_1405353447861_1689882940001121.tar.gz	

Tar.gz file with updated records includes "updated" in the file name

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Ongoing Publishing
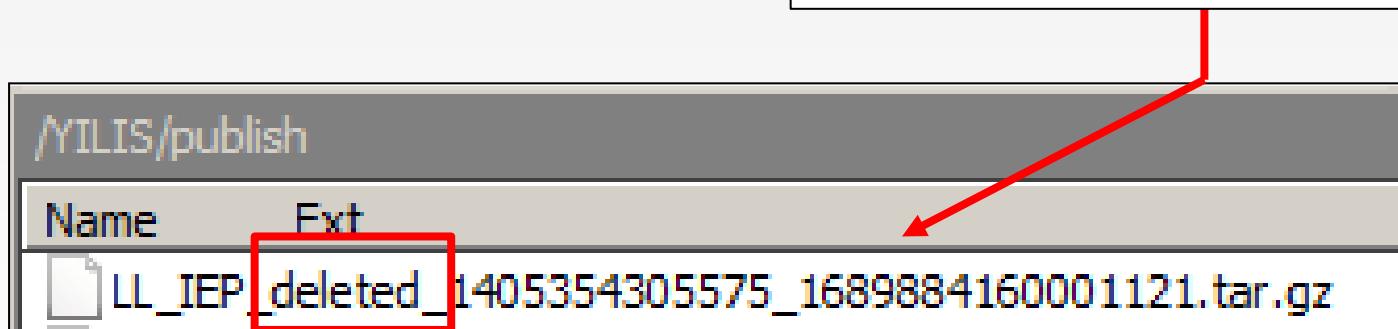
- Now one of the record is deleted:

Ongoing Publishing

- After the publishing the deleted record is in the results:

Tar.gz file with deleted records includes "deleted" in the file name

/YILIS/publish

Name	Ext
LL_IEP_deleted_1405354305575_1689884160001121.tar.gz	
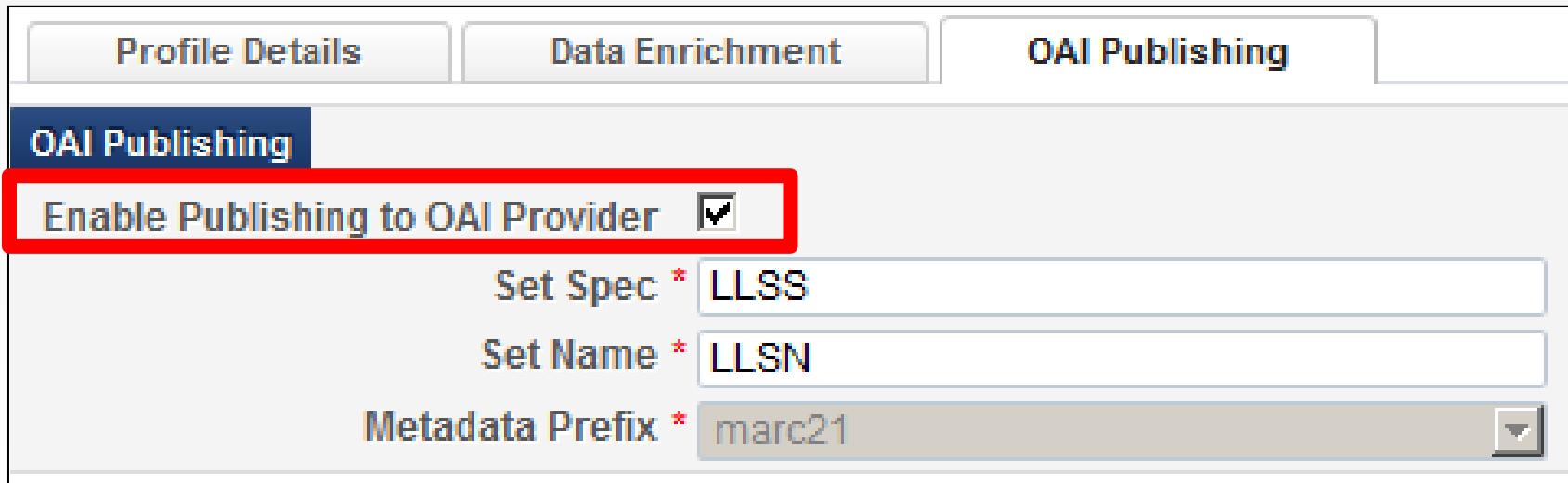
Ongoing Publishing

- The deleted record publishes with a "d" in position 5 of the LDR:


```xml
<?xml version="1.0" encoding="UTF-8"?>
<record xmlns="http://www.loc.gov/MARC21/slim" xmlns:xsi="http://www.w3.org/2001
http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd" >
    <leader>00282dam a2200097 u 4500</leader>
    <controlfield tag="001">992098924140112I</controlfield>
    <controlfield tag="005">20140714165250.0</controlfield>
    <controlfield tag="008">140714s2013    xx         r       000 0 eng d</controlfie
    <datafield tag="100" ind1="1" ind2=" ">
        <subfield code="a">Kortick, Yoel</subfield>
        <subfield code="d">1971-</subfield>
    </datafield>
    <datafield tag="245" ind1="1" ind2="3">
        <subfield code="a">An in depth study of the London library in the modern
    </datafield>
    <datafield tag="650" ind1=" " ind2="0">
        <subfield code="a">Libraries</subfield>
        <subfield code="z">London</subfield>
    </datafield>
</record>
```

OAI Setup
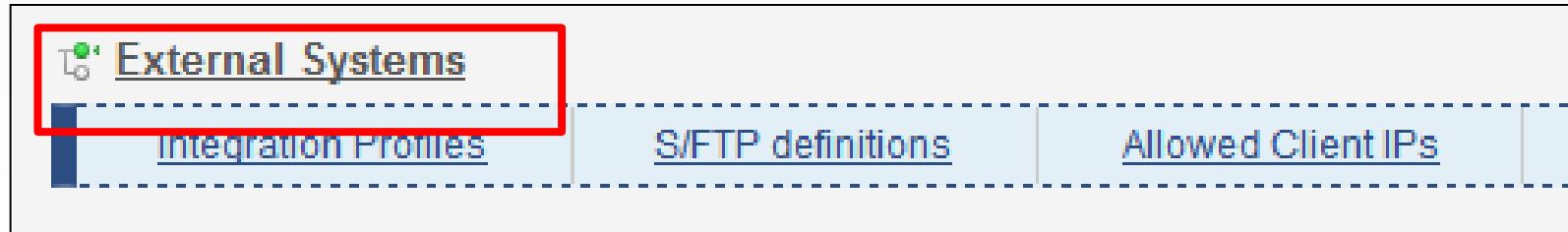
- In the generic publishing profile we defined "yes" (check box checked) for "Enable Publishing to OAI Provider":
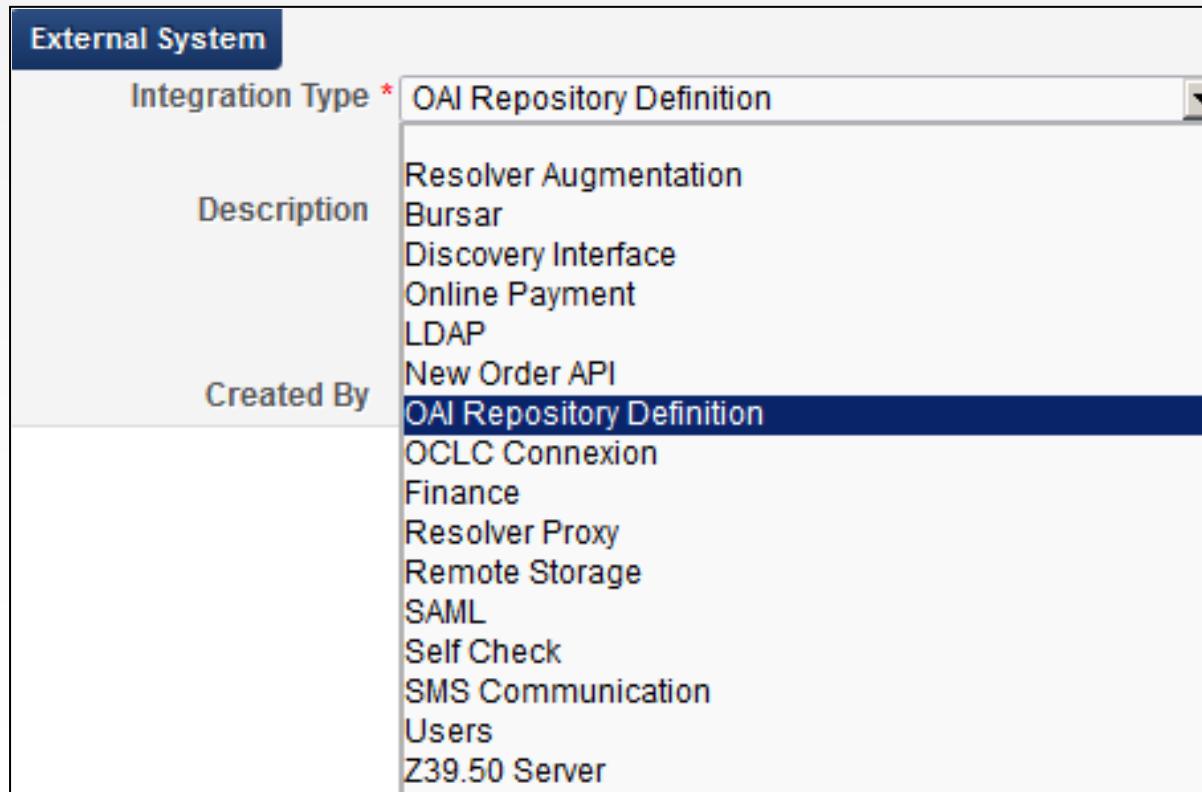
OAI Setup

- In order to be able to view the records in OAI we need to first define an integration profile of type OAI.

- This is done at: Alma Menu > Administration > General Configuration > Configuration Menu > External Systems > Integration Profiles.

OAI Setup

- The Integration Type should be "OAI Repository Definition":

OAI Setup

- The following is a sample working profile of type "OAI Repository Definition":

| Code | OAI_DEFINITION | Name | OAI_DEFINITION | Integration Type | OAI Repository Definition |

General Information | **Actions** | **Contact Info**

Actions

OAI Repository Definitions

Active * ⦿ Active ◯ Non Active

Repository Name * UEL OAI Repository

Repository Base URL   https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request

Protocol Version   2.0

Admin Email * yoel.kortick@exlibrisgroup.com

Earliest Datestamp * 01/01/2014

Date Format is dd/MM/yyyy

Deleted Record   transient

Granularity   YYYY-MM-DDThh:mm:ssZ

Metadata Prefixes

Allowed IPs

OAI Schema   oai   Delimiter   :   Repository Identifier * urm_publish

Max bulk size for ListIdentifiers * 100
request

Up to 900 Identifiers

Max bulk size for ListRecords * 100
request

Up to 900 Records

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OAI Setup

- The following is a sample working profile of type "OAI Repository Definition":

| Code | OAI_DEFINITION | Name | OAI_DEFINITION | | Integration Type | OAI Repository Definition |

General Information | **Actions** | **Contact Info**

Actions

OAI Repository Definitions

Active * ⦿Active ○Non Active

Must be "Active" to use it

Repository Name * UEL OAI Repository

Any name you want

Repository Base URL https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request

Protocol Version 2.0

Admin Email * yoel.kortick@exlibrisgroup.com

Earliest Datestamp * 01/01/2014

Date Format is dd/MM/yyyy

Timestamp Date from which published records will appear

Deleted Record transient

Granularity YYYY-MM-DDThh:mm:ssZ

Metadata Prefixes

Allowed IPs

OAI Schema oai   Delimiter :   Repository Identifier * urm_publish

Max bulk size for ListIdentifiers * 100
request

Up to 900 Identifiers

Explained on next slide

Max bulk size for ListRecords * 100
request

Up to 900 Records

OAI Setup

- "Metadata Prefixes" allows the user to define which Metadata Prefixes are enabled for OAI:

OAI Setup

- "Allowed" IPs allows the user to define which IPs can access the data via OAI.

- IP Match Criteria should be

  1. A Specific IP Address

  2. An IP Range

  - Two valid IP addresses separated with hyphen (-). For Example: 255.255.255.255 or 1.1.1.1-255.255.255.255

OAI Setup

Granularity   YYYY-MM-DDThh:mm:ssZ
Metadata Prefixes
Allowed IPs

Mapping Table

You are configuring: University of East London

Table Information

Sub System	REPOSITORY		Table Name	OAIIps
Updated By	exl_support		Last Updated	16/07/2014

Table Description   Allowed OAI IP values for ExLibris internal API's authentication

— Mapping Table Rows

	Enabled	IP description	IP Version		IP Match Criteria
1	✔	All IPs	IPv4	▼	1.1.1.1-255.255.255.255

Open to all IPs

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OAI Retrieval

- Now that both the publishing profile and the OAI profile have been defined, and the publishing profile has run, we may view the resulting records via OAI.

- All OAI URLs will be with the "Repository Base URL" as appears in the OAI profile.

OAI Retrieval

- Let's look now at the six OAI verb requests:

  - Identify - Retrieves information about the repository.

  - ListSets - Retrieves the list of sets from the repository.

  - ListMetadataFormats - Retrieves available metadata formats from the repository.

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OAI Retrieval

- ListIdentifiers - Retrieves identifiers of records in the repository.

- GetRecord - Retrieves a specified record in a specified format from the repository.

- ListRecords - Retrieves records from the repository.

- For more about these verbs and the related qualifiers see: http://www.openarchives.org/OAI/openarchivesprotocol.htm

OAI Retrieval

- For example (we will view these on the next slides):

- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=Identify
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=ListSets
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=ListMetadataFormats
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=ListIdentifiers&metadataPrefix=marc21&set=LLSS
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=GetRecord&identifier=oai:urm_publish:2120889940001121&metadataPrefix=marc21
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=ListRecords&metadataPrefix=marc21&set=LLSS
- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request?verb=ListRecords&metadataPrefix=marc21&set=LLSS&from=2014-07-185T03:06:13Z&until=2014-07-205T03:06:13Z

OAI Retrieval

- `https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request`
  `?verb=Identify`

```xml
<?xml version="1.0" encoding="UTF-8"?>
<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchives.org
PMH.xsd">
    <responseDate>2014-07-16T02:02:06Z</responseDate>
    <request verb="Identify">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request</request>
    <Identify>
        <repositoryName>UEL OAI Repository</repositoryName>
        <baseURL>https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request</baseURL>
        <protocolVersion>2.0</protocolVersion>
        <adminEmail>yoel.kortick@exlibrisgroup.com</adminEmail>
        <earliestDatestamp>2014-01-01</earliestDatestamp>
        <deletedRecord>transient</deletedRecord>
        <granularity>YYYY-MM-DDThh:mm:ssZ</granularity>
        <description>
            <oai-identifier xmlns="http://www.openarchives.org/OAI/2.0/oai-identifier">
                <scheme>oai</scheme>
                <repositoryIdentifier>urm_publish</repositoryIdentifier>
                <delimiter>:</delimiter>
                <sampleIdentifier>oai:urm_publish:12345678</sampleIdentifier>
            </oai-identifier>
        </description>
    </Identify>
</OAI-PMH>
```

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OAI Retrieval

- `https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request`
  `?verb=ListSets`

```xml
<?xml version="1.0" encoding="UTF-8"?>
- <OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchives.org
  PMH.xsd">
    <responseDate>2014-07-16T02:03:36Z</responseDate>
    <request verb="ListSets">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request</request>
  - <ListSets>
    - <set>
          <setSpec>LLSS</setSpec>
          <setName>LLSN</setName>
      </set>
  </ListSets>
</OAI-PMH>
```

This is what we defined in the publishing profile

Publishing Profile Details

Profile Id   1689708730001121

| Profile Details | Data Enrichment | OAI Publishing |

OAI Publishing

Enable Publishing to OAI Provider ☑

Set Spec * LLSS

Set Name * LLSN

Metadata Prefix * marc21

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OAI Retrieval

- `https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request` `?``verb=ListMetadataFormats`

```xml
<?xml version="1.0" encoding="UTF-8"?>
- <OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchi
  PMH.xsd">
      <responseDate>2014-07-16T02:07:20Z</responseDate>
      <request verb="ListMetadataFormats">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INS
    - <ListMetadataFormats>
      - <metadataFormat>
            <metadataPrefix>marc21</metadataPrefix>
            <schema>http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd</schema>
            <metadataNamespace>http://www.loc.gov/MARC21/slim</metadataNamespace>
        </metadataFormat>
    </ListMetadataFormats>
</OAI-PMH>
```

ExLibris

OAI Retrieval

- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request
  ?verb=ListIdentifiers&metadataPrefix=marc21&set=LLSS

```xml
<?xml version="1.0" encoding="UTF-8"?>
<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://
PMH.xsd">
    <responseDate>2014-07-20T05:20:21Z</responseDate>
    <request set="LLSS" metadataPrefix="marc21" verb="ListIdentifiers">https://eu.a
  - <ListIdentifiers>
    - <header>
        <identifier>oai:urm_publish:2120496860001121</identifier>
        <datestamp>2014-07-195T03:06:13Z</datestamp>
        <setSpec>LLSS</setSpec>
      </header>
    - <header>
        <identifier>oai:urm_publish:2120889940001121</identifier>
        <datestamp>2014-07-195T03:06:13Z</datestamp>
        <setSpec>LLSS</setSpec>
      </header>
    - <header>
        <identifier>oai:urm_publish:2121887600001121</identifier>
        <datestamp>2014-07-195T03:06:13Z</datestamp>
        <setSpec>LLSS</setSpec>
      </header>
    - <header>
        <identifier>oai:urm_publish:2122823410001121</identifier>
        <datestamp>2014-07-195T03:06:13Z</datestamp>
        <setSpec>LLSS</setSpec>
      </header>
    - <header>
        <identifier>oai:urm_publish:2123037110001121</identifier>
        <datestamp>2014-07-195T03:06:13Z</datestamp>
        <setSpec>LLSS</setSpec>
      </header>
    - <header>
```

ExLibris

OAI Retrieval

- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request ?verb=GetRecord&identifier=oai:urm_publish:2120889940001121&m

```xml
<?xml version="1.0" encoding="UTF-8"?>
- <OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchives.org/OAI/
  PMH.xsd">
    <responseDate>2014-07-20T05:24:06Z</responseDate>
    <request metadataPrefix="marc21" verb="GetRecord"
        identifier="oai:urm_publish:2120889940001121">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INS
  - <GetRecord>
    - <record>
        - <header>
            <identifier>oai:urm_publish:2120889940001121</identifier>
            <datestamp>2014-07-195T03:06:13Z</datestamp>
            <setSpec>LLSS</setSpec>
        </header>
        - <metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
          - <record xmlns="http://www.loc.gov/MARC21/slim" xsi:schemaLocation="http://www.loc.gov/MARC.
            http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:xsi="http://www.w3.or
              <leader>00000cam a2200205 a 4500</leader>
              <controlfield tag="003">UK-LoUE</controlfield>
              <controlfield tag="005">20061027154633.0</controlfield>
              <controlfield tag="008">980121s1978 xxk c 000 0 eng||</controlfield>
              <controlfield tag="001">997034080001121</controlfield>
            - <datafield tag="035" ind2=" " ind1=" ">
                <subfield code="a">(UK-LoUE)000029943UEL01</subfield>
            </datafield>
            - <datafield tag="035" ind2=" " ind1=" ">
                <subfield code="9">64147</subfield>
            </datafield>
            - <datafield tag="035" ind2=" " ind1=" ">
                <subfield code="a">(UK-LoUE)x4261163</subfield>
            </datafield>
            - <datafield tag="110" ind2=" " ind1="2">
                <subfield code="a">Geological Society of London.</subfield>
            </datafield>
```

ExLibris

OAI Retrieval

- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request
  ?verb=ListRecords&metadataPrefix=marc21&set=LLSS

```xml
<?xml version="1.0" encoding="UTF-8"?>
<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.c
PMH.xsd">
    <responseDate>2014-07-20T05:11:42Z</responseDate>
    <request set="LLSS" metadataPrefix="marc21" verb="ListRecords">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request</request>
    <ListRecords>
        <record>
            <header>
                <identifier>oai:urm_publish:2120496860001121</identifier>
                <datestamp>2014-07-195T03:06:13Z</datestamp>
                <setSpec>LLSS</setSpec>
            </header>
            <metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <record xmlns="http://www.loc.gov/MARC21/slim" xsi:schemaLocation="http://www.loc.gov/MARC21/slim
                http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                    <leader>00000cam a2200325 a 4500</leader>
                    <controlfield tag="003">UK-LoUE</controlfield>
                    <controlfield tag="005">20061027153907.0</controlfield>
                    <controlfield tag="008">980121r19911990enk 000 0 eng||</controlfield>
                    <controlfield tag="001">996890190001121</controlfield>
                    <datafield tag="035" ind2=" " ind1=" ">
                        <subfield code="a">(UK-LoUE)000029271UEL01</subfield>
                    </datafield>
                    <datafield tag="020" ind2=" " ind1=" ">
                        <subfield code="a">0415062411</subfield>
                    </datafield>
                    <datafield tag="035" ind2=" " ind1=" ">
                        <subfield code="9">62950</subfield>
                    </datafield>
                    <datafield tag="035" ind2=" " ind1=" ">
                        <subfield code="a">(UK-LoUE)0415062411</subfield>
```

OAI Retrieval

- https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request
  ?verb=ListRecords&metadataPrefix=marc21&set=LLSS&from=2014-
  07-185T03:06:13Z&until=2014-07-205T03:06:13Z

```xml
<?xml version="1.0" encoding="UTF-8"?>
<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.
PMH.xsd">
    <responseDate>2014-07-20T05:11:42Z</responseDate>
    <request set="LLSS" metadataPrefix="marc21" verb="ListRecords">https://eu.alma.exlibrisgroup.com/view/oai/44UEL_INST/request</request>
    <ListRecords>
        <record>
            <header>
                <identifier>oai:urm_publish:2120496860001121</identifier>
                <datestamp>2014-07-195T03:06:13Z</datestamp>
                <setSpec>LLSS</setSpec>
            </header>
            <metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <record xmlns="http://www.loc.gov/MARC21/slim" xsi:schemaLocation="http://www.loc.gov/MARC21/slim
                http://www.loc.gov/standards/marcxml/schema/MARC21slim.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                    <leader>00000cam a2200325 a 4500</leader>
                    <controlfield tag="003">UK-LoUE</controlfield>
                    <controlfield tag="005">20061027153907.0</controlfield>
                    <controlfield tag="008">980121r19911990enk 000 0 eng||</controlfield>
                    <controlfield tag="001">996890190001121</controlfield>
                    <datafield tag="035" ind2=" " ind1=" ">
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                    </datafield>
                    <datafield tag="035" ind2=" " ind1=" ">
                        <subfield code="9">62950</subfield>
                    </datafield>
                    <datafield tag="035" ind2=" " ind1=" ">
                        <subfield code="a">(UK-LoUE)0415062411</subfield>
```