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Pipe Dreams: Harvesting Local Collections into Primo Using OAI-PMH

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Pipe Dreams 000

HARVESTING LOCAL COLLECTIONS INTO PRIMO USING OAI-PMH



Characters

Geri Rinna Electronic Resources Librarian Marianne SwierengaEmily GrossCataloging andILS SpecialistMetadata LibrarianILS Specialist



Why Harvest?

From disparate systems

 subject and course guides, local digital collections, scholarly repository, archival finding aids, and the catalog

To integrated discovery

 Unified platform for access and discovery for an improved user experience



Pipes @ WMU

CONTENTdm, May 2015

LUNA Insight, March 2016

ScholarWorks (bepress Digital Commons), August 2017

Springshare LibGuides, December 2017

ArchivesSpace, In Progress

Archive-It, Future Project?



Workflow

- Selection
- Configuring External Systems
- Configuring Primo
- Testing
- Documentation



Workflow: Selection

- Identify
- Feasibility Study
- Testing
- Request
- Approval



- Enable OAI-PMH
 - Example: <u>https://oai.datacite.org/oai</u>
 - Test URL
- Setting permissions
- Mapping metadata



Mapping the metadata in OCLC's CONTENTdm:

Configure the field properties

Edit field, select DC mapping

Index the collection after changes

admin home	server	collections	items
::	profile : fields : websi	te reports expor	t view col

Metadata fields

View and configure collection and administrative fields.

Co	llection field properti	es								
Vie ind	w, add, edit and delet ex the collection to up	e fields. Enable full te date changes.	ext searching and	l controlled	vocabular	y. Afte	r you have a	added, ch	anged, or delet	ed fields,
	Field name	DC map	Data type	Large	Search	Hide	Required	Vocab		add field
1	Title	Title	Text	No	Yes	No	Yes	No	move to 💌	edit delete
2	Interviewee	Creator	Text	No	Yes	No	No	No	move to 💌	edit delete
3	Interviewee 2	Creator	Text	No	Yes	No	No	No	move to 💌	edit delete
4	Interviewer	Creator	Text	No	Yes	No	No	No	move to 💌	edit delete
5	Date(s) of Interview	Date-Created	Text	No	Yes	No	No	No	move to 💌	edit delete
6	Description	Description	Text	Yes	Yes	No	No	No	move to 💌	edit delete
7	Notes	Description	Text	No	No	No	No	No	move to 💌	edit delete
8	Location of Interview	Coverage-Spatial	Text	No	Yes	No	No	No	move to 💌	edit delete
9	Subject 1	Subject	Text	No	Yes	No	No	No	move to 💌	edit delete



Mapping the metadata:

Expressed as XML; oai_dc schema

Use the <u>OAI validator</u> to view the XML and troubleshoot metadata before harvest



<metadata></metadata>	
<pre><oai_dc:dc xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xx<br=""><dc:title>Liturgy 0.C.S.0., 1976, vol. 10, no. 3 (October)</dc:title></oai_dc:dc></pre>	nlns:xsi
<dc:contributor>Waddell, Chrysogonus, 1930-2008</dc:contributor>	
<dc:publisher>Cistercians of the Strict Observance, Abbey of Our Lady of Gethsemani (Trappist, Ky.)</dc:publisher> <dc:date>1976</dc:date>	
<pre><dc:description>Liturgy 0.C.S.0. was published by Gethsemani Abbey, Trappist, KY and edited by Father Chrysogonus V <dc:description>Editor's page / Fr. Chrysogonus Waddell The internal unity of the Eucharist prayer / Bede </dc:description></dc:description></pre>	Naddell Stockill
<dc:contributor>Stockill, Bede, Dom</dc:contributor>	
<dc:contributor>Rondeau, Marie-Nivard, Fr.</dc:contributor>	
<dc:contributor>Crevant-Humières, Anne-Louise de, 1658-1710</dc:contributor>	
<dc:contributor>Waddell, Chrysogonus, 1930-2008</dc:contributor>	
<dc:contributor>Marlingeas, Bernard</dc:contributor>	
<dc:subject>Lord's SupperMeditations</dc:subject>	
<dc:subject>God (Christianity)Name</dc:subject>	
<dc:subject>Catholic ChurchLiturgyTexts</dc:subject>	
<dc:subject>Bible. O.T. PsalmsPrayers and devotions</dc:subject>	
<dc:subject>ForgivenessReligious aspectsCatholic Church</dc:subject>	
<dc:subject>ReconciliationReligious aspectsCatholic Church</dc:subject>	
<pre><dc:rights>Digital version of Liturgy, courtesy of Gethsemani Abbey, Trappist, Kentucky, copyright 2010 Western Mix</dc:rights></pre>	chigan l
<dc:language>eng</dc:language>	1.122
<dc:relation>Liturgy 0.C.S.O. Journal of Gethsemani Abbey</dc:relation>	
<dc:type>text</dc:type>	
<dc:format>application/pdf</dc:format>	
<dc:format>4,047,056 bytes</dc:format>	
<dc:identifier>exws_LitVol10_No3</dc:identifier>	
<dc:identifier>http://cdm16259.contentdm.oclc.org/cdm/ref/collection/p15032coll3/id/21</dc:identifier>	

Library Sear		Details	
	ТОР	Title	Liturgy O.C.S.O., 1976, vol. 10, no. 3 (October)
	SEND TO	Author	Waddell, Chrysogonus, 1930-2008 >
			Stockill, Bede, Dom >
	ONLINE		Rondeau, Marie-Nivard, Fr. >
	DETAILS		Crevant-Humières, Anne-Louise de, 1658-1710 >
	DETAILS		Waddell, Chrysogonus, 1930-2008 >
	LINKS		Marlingeas, Bernard >
		Subjects	Lord's SupperMeditations >
	TAGS		God (Christianity)Name >
Refine my r			Catholic ChurchLiturgyTexts >
nonne my i			Bible. O.T. PsalmsPrayers and devotions >
Expand bey			ForgivenessReligious aspectsCatholic Church >
			ReconciliationReligious aspectsCatholic Church >
Sirt y Rele		Description	Liturgy O.C.S.O. was published by Gethsemani Abbey, Trappist, KY and edited by Father Chrysogonus Waddell from 1966-1999. The journal (at that time a newsletter) began after September 1965 meeting of the Liturgy Commission of the Order of Cistercians of the Strict Observance to report progress in liturgical renewal after Vatican II. The audience and contributors later included secular scholars of the
Show Only			Cistercian liturgy.
Peer-reviewed Journals			Editor's page / Fr. Chrysogonus Waddell The internal unity of the Eucharist prayer / Bede Stockill The name 'Y H W H' and its usage in the Liturgy / Fr. Nivard Rondeau Eucharistic meditations on the Psalms by the Lady Abbess of Monchy, Madame Anne-Louise de Crevant-D'Humieres 1658-1710 Introduction
Full Text Onlin			and presentation / Chrysogonus Waddell Text of the Meditation The process of Reconciliation / Bernard Marlingeas



Workflow: Configuring Primo

Data Source

Scope Value

Normalization Rules

Code Tables

Mapping Tables

Views



Data Source

Why do you need to configure a Data Source?

The Data Source tells Primo some basic information about the data!



Scope Value

What does a Scope Value do?

Defines a set of records



Normalization Rule Set

The set of rules that will apply to the set of records defined by your Scope Value, that came from your Data Source.



Mapping Table

Maps the terms used in original data to terms used in Primo.

Set names in source -> Set names in Primo

Example: "acad_leadership" maps to "Academic Leadership Academy"





Don't forget to deploy your:

- Data Source
- Scope Values
- Normalization Rules
- Code Tables & Mapping Tables

...*before* moving on to the next steps!



Creating the Pipes

You must create three pipes:

- Import Pipe
- Delete Pipe
- Renorm Pipe



Congratulations!

You've created your pipes!

THANK YOU MARIO!

BUT OUR PRINCESS IS IN ANOTHER CASTLE!





Workflow: Testing

Where's my stuff?

- Harvesting and re-indexing may take a long time
- Make sure the pipe actually harvested something
- Check your search scope settings

Harvesting more/less than you expected?

- $^{\circ}$ Check your export settings at the data source
- Check your mapping table in Primo

Facets not showing?

Check the normalization rules and code tables



Workflow: Documentation

Bus theory: If you get run over by a bus tomorrow, who will pick up the work?

- Begin your documenting as you work in the Sandbox
- Take notes as you go along; record the how and why
- Note any information gleaned from tickets with Ex Libris
- Step-by-step instructions



Pipes @ WMU

CONTENTdm

LUNA Insight

ScholarWorks (bepress Digital Commons)

Springshare LibGuides

ArchivesSpace





Pipe: CONTENTdm

Unique issues:

OAI already set up for WorldCat and Summon harvests

Already mapped to Dublin Core

All collections were open and accessible



Pipe: LUNA

Unique issues:

Complex metadata need to be mapped to simple Dublin Core

Not all collections are open with some requiring configurations to block harvesting

Thumbnail link creating two different records in Primo



Pipe: ScholarWorks

Unique issues:

ScholarWorks Librarian needed to curate items and collections

Not a scheduled harvest since ingestion of new materials is sporadic

Primo Back Office is case sensitive:

- ° 01WMU_SCHOLARWORKS_Set_Names
- ° 01WMU_Scholarworks_Set_Names



Pipe: LibGuides

Unique issues:

First time we needed to create new resource type



Pipe: ArchivesSpace

Unique issues:

Needed IT assistance to set up the OAI

Finding aids are multi-part and hierarchical, requiring determination of what level a resource should be harvested

Links were not directing user to the resource



Finding Aids in Primo

Besmilr	Brigham-Will Inman Correspondence Collection	× /	Everyt	hing	•	Q
PAGE 1 64 R	Pesults Personalize FINDING AID Besmilr Brigham-Will Inman Correspondence Collection Brigham, Besmilr; Inman, Will, 1923-2009 Western Michigan University Special Collections;Western Michigan University 1971-1978; bulk 1977	7-197	"		*	•••





CHAPEAU DE PAILLE.

The Atlantic Souvenir; A Christmas and New Year's Offering (1826-1832); Philadelphia (1829): 158. Browse this issue

Full text - PDF Page view - PDF Details



Measurements: 23.2 14.5 cm Material:



Conclusion

Have we achieved the vision of a unified platform of access and discovery?



Useful Links

Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH): <u>https://www.openarchives.org/pmh/</u>

OAI Repository Explorer: <u>http://re.cs.uct.ac.za/</u>

OAI Validator: http://validator.oaipmh.com/

CONTENTdm OAI support:

https://www.oclc.org/support/services/contentdm/help/server-admin-help/oaisupport.en.html

Import Records into Primo from OAI Repositories: https://www.orbiscascade.org/blog/9/?bid=153

Configuring OAI-PMH in ArchivesSpace: <u>https://github.com/archivesspace/archivesspace#configuring-oai-pmh</u>

Ingesting LibGuides into Primo: <u>http://documents.el-una.org/1513/</u>



Contact Us!

Questions? Comments?



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HOW TO SET UP YOUR VERY OWN PIPE

Pipes, Step-by-Step

Definitions

<u>Pipes</u> : set of steps that the source information goes through before being turned into the PNX record

<u>Search Scope</u> : defines a group of records that can be searched together

Normalization Rules : takes the data and maps them to the PNX

PNX : Primo Normalized XML

Data Source : source of records

Digital Assets Management System : software supporting collections



<u>OAI-PMH</u> : Open Archives Initiative Protocol for Metadata Harvesting is the mechanism supporting the data interchange



Workflow: Data Source Configuration

Why do you need to configure a Data Source? The Data Source tells Primo some basic information about the data you will bring in via the pipes!

Two ways to get there:

Primo Home > Ongoing Configuration Wizards > Pipe Configuration Wizard > **Data Sources Configuration**

Primo DC04 PMTD-NA01 Production Back Office
<u>Primo Home > Ongoing Configuration Wizards</u> > Pipe Configuration Wizard

Home Deploy & Utilities General Local Data Publishing FE & D

Pipe Configuration Wizard

- Data Sources Configuration Manage and configure Data Sources
- Scope Values Configuration Manage and configure Scopes
- Normalization Mapping Tables Manage the Normalization mapping table values
- Normalization Rules configuration Manage and configure Normalization Rules
- Enrichment Sets Configuration Manage and configure Enrichment Sets
- Pipes Configuration Manage and configure Pipes




Workflow: Data Source Configuration

Add a New Data Course

You will need the following information, usually configured like this:

Owner: [Your Institution]

Source format: [Format of your data]

Source system: Other

File Splitter: OAI splitter

Source name: [Name your source]

Description: [Source name] data source

Character Set: [usually UTF-8]

Transformation file name: <blank>

Source code: [Same as source name]

Original Source Code: <blank>

Version: <blank>

wner:	Western Michigan Univer	Source name:		Source code:	
ource system:	Select a Source System V	Source format:	Select a Source Format V	version	
File needs tran	sformation	Transformation file name	The second secon	Original Source Code	
REF keys	LCCN A OCLC ISSN ISBN V		,		
ile Splitter:	Select a File Splitter •	Character Set:	UTF-8	Input Record Path	record
escription:					Add

https://knowledge.exlibrisgroup.com/Primo/Product_Documentation/060Back_Office_ Guide/050Pipe_Configuration_Wizard/040Configuring_Data_Sources

Input Record Path: [oai_dc:dc, record, or knowledge_unit]



Workflow: Data Source Configuration

Example

Data Sources

Data Source Attributes for 01WMU_SCHOLARWORKS

Source Description	Owner: Western Michigan University (Alma)	Source name: D1WMU_SCHOLARWORKS	Source code: 01WMU_SCHOLARWORKS
	Source format: DC ▼	Description: 01WMU ScholarWorks data source	Original Source Code
Source Definition	Source system: Other ▼		Version
	File Splitter: OAI splitter	Character Set: UTF-8 T	Input Record Path oai_dc:dc
	File needs transformation	Transformation file name	XREF keys LCCN ← OCLC ISSN ISBN ←

CreatedJun 08, 2017, Last updatedJul 18, 2017Byemily.n.gross@wmich.edu



Workflow: Scope Value Configuration

Two ways to get there:

Primo Home > Ongoing Configuration Wizards > Pipe Configuration Wizard > **Scope Values Configuration**

Primo DC04 PMTD-NA01 Production B Primo Home > Ongoing Configuration Wizards > Pipe Configura

Home Deploy & Utilities General Local Data Pub

Pipe Configuration Wizard

Data Sources Configuration Manage and configure Data Sources

Scope Values Configuration Manage and configure Scopes

Normalization Mapping Tables Manage the Normalization mapping table values

Normalization Rules configuration Manage and configure Normalization Rules

Enrichment Sets Configuration Manage and configure Enrichment Sets

Pipes Configuration Manage and configure Pipes

Local Data > Scope Values





Workflow: Scope Value Configuration

You will need the following information, usually configured like this:

Owner: [Your institution]

Scope Value Name: [Same name as your Data Source]

Scope Value Code: [Same name as your Scope Value Name]

Description: [Scope Value Name] Scope

Scope Type: Collection

Use Scope for: Search

Create a new scope value Owner: Western Michigan University (Alma) Scope Value Code: Scope Value Name: Use Scope for: Search Restricted Search Restricted Delivery



Workflow: Scope Value Configuration

Example

General Attributes for Scope 01WMU_SCHOLARWORKS

Owner: Western Michigan University (Alma)			
Scope Value Name:	01WMU_SCHOLARWORKS		
Scope Value Code:	01WMU_SCHOLAR\		
	Manually defined Search Scope		
	scope:(01WMU_SCHOLARWORKS)		
Description:	D1WMU Scholarworks Scope		
Scope Type:	Collection •		
Use Scope for:	✓ Search	Restricted Search	Restricted Deliv



Workflow: Normalization Rule Set Configuration

Primo Home > Advanced Configuration > Full Normalization Rule Configuration

Primo DC04 PMTD-NA01 Production

Primo Home > Advanced Configuration

Home Deploy & Utilities General Local Data Pu

Advanced Configuration

All Code Tables Manage all Code Tables

All Mapping Tables Manage all Mapping Tables

Full Normalization Rule Configuration Manage and configure Normalization Rules

Tags Management Manage and configure Tags

Resource Recommender Manage Recommended Resources

Search Engine Configurations Manage the search engine configurations



Workflow: Normalization Rule Set Configuration

You will need to fill in the following information:

Owner: [Your institution]

Duplicate from existing Normalization Rules Set: [Whichever Metadata format you need]

Name: [Use the same name as your Data Source]

Create a New Normalization Rules Set	
Owner: Western Michigan University (Alma) Duplicate from existing Normalization Rules Se	t Generic Dublin Core - Template Vame Create OTWMU_LUNA OTWMU_ALMA OTWMU_CONTENTDM WMU_LONTENTDM WMU_SCHOLARWORKS Complex Xml - Template MetaLib KB - Template WARC - Template ALEPH MAB - Template ALEPH MAB - Template ALEPH MARC - Template DigiTool MARC - Template ALEPH MARC - Template DigiTool DC - Template DigiTool DC - Template Generic MARC - Template Generic Dublin Core - Template



General > Mapping Tables

...then select SubSystem: Normalization



Mapping Tables

Update for Owner: Western Michigan University (Alma) Sub System : Normalization

۲



Add the following information:

Table Name: [Same name as your Data Source]_Set_Names

Description: [Same name as your Table Name]





Take the OAI URL for scholarworks and enter it into the OAI validator:

http://validator.oaipmh.com/

Click "List Sets" and view the XML tab. The names and codes listed will be what you enter into the target code and source code of the mapping table.

⊘ Validate URL ✓ Valid	late By Direct Input 🔹 Download XML 🛷 REST API 🚯 About 📕 References	🕥 Mappir	g Tables			
OAI-PMH URL:	http://scholarworks.wmich.edu/do/oai/ Check now >	Update for Ov	vner: Western Michigan Universit Reset Del	y (Alma) Sub System : NORMALIZATION Table	e Name : 01WMU_ScholarWorks_Set	Names Search in Table:
AVAILABLE COMMANDS	ListSets Validation (369) Image: XML Result (7KB)	Mapping Ta	ble Rows	La companya da	1	
Identify	▲ Download XML 🔒 Print XML	Enabled	sourceCode1*	targetCode	Description	Last Updated
ListMetadataFormats	<pre><?xml version="1.0" encoding="UTF-8"?></pre>		acad_leadership	Academic Leadership Academy		06/08/17 By emily.n.gross@wmich.edu Delete
ListSets	<uai-pmh xmlns="http://www.openarchives.org/OAI/2.0/" ymlns.ysia"http://www.openarchives.org/2001/XMUschema-instance"</uai-pmh 	Table Descri	ption: 01WMU_ScholarWorks_Se	at_Names		
ListIdentifiers	<pre>xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI+PNH.xsd"></pre>	Create a Ne	w Mapping Row			
ListRecords SIMPLE- DUBLIN-CORE	<responsedate>2017-06-08T13:41:34Z</responsedate> <request verb="ListSets">http://scholarworks.wmich.edu/do/oai/</request>	sourceCoo	le1	targetCode	Description	
ListRecords OAI_DC	<listsets> <set></set></listsets>					Create
ListRecords OAI-DC	<pre><setspec>publication:acad_leadership</setspec> <setname>Academic Leadership Academy</setname> <td></td><td></td><td></td><td></td><td></td></pre>					
ListRecords DCS	<pre><set> <setspec>publication:accessus</setspec></set></pre>					
ListRecords	<setname>Accessus</setname>					

Alternatively, you can load an excel (must be .xls NOT the newer versions of excel) file with headers:

Enabled

sourceCode1

targetCode

Description

InstallationCode

InstitutionCode

1	Α	В	с	D	E	F
1	Enabled	sourceCode1	targetCode	Descriptio	InstallationCode	InstitutionCode
2	true	acad_leadership	Academic Leadership Academy		CUSTOMER	01WMU
3	true	accessus	Accessus		CUSTOMER	01WMU
1	true	accessus_gallery	Accessus Gallery		CUSTOMER	01WMU
5	true	accountancy	Accountancy		CUSTOMER	01WMU
5	true	accountancy_honors	Accountancy Honors Theses		CUSTOMER	01WMU
7	true	accreditation	Institutional accreditation		CUSTOMER	01WMU
В	true	ace_intl_lab	American Council on Education Internationalization Laboratory		CUSTOMER	01WMU
Э	true	africancenter	Center for African Development Policy Research		CUSTOMER	01WMU
.0	true	africancenter icad	International Conference on African Development		CUSTOMER	01WMU

Enabled column must say "true" all the way down. Installation code must be "Customer" all the way down. Institution code must be "[Your institution code]" all the way down





Don't forget to deploy your:

Data Source

Scope Values

Normalization Rules

Code Tables & Mapping Tables

...before moving on to the next steps!



Primo Home > Monitor Primo Status > Pipe Monitoring

...or go to Publishing > Create New Pipe

You will create three pipes:

Import Pipe

Delete Pipe

Renorm Pipe





IMPORT ("REGULAR") PIPE

ISSUES

Pipe Name: [Use the same name as your Data Source]
Pipe Description: [Pipe Name]
Pipe Type: Regular
Data Source: [Choose the Data Source you created]
Normalization Mapping Set: [Choose the Mapping Set you created]
Harvesting method: OAI
Server: [Server URL]
Enrichment set: No Enrichments – Template
Metadata format: oai_dc [if Dublin Core]
Harvested file format: *.tar.gz
System Last Stage: Persistence

Start Harvesting records from: [Earliest date you can pick]

Sometimes your Normalization Mapping Set won't appear in the list of options. Redeploy Normalization Rules and Code Tables & Mapping Tables and give it some time. Try again later.

Pick the earliest date possible for "Start Harvesting records from". Because this is the first 'major' load, and later loads are incremental, you want to make sure you capture all the relevant data.

Define Pipe		
Owner: Western Michigan University	(Alma) Pipe Name: 01WMU_SCHOLAR	WORKS Pipe Type: Regular
Pipe Description:	/ORKS - ScholarWorks pipe	
Source	Normalization and Enrichme	nt Errors
Data Source: * DIWMU_SCHOLARWORKS • Harvesting method: * OAI • Server: * http://scholarworks.w Metadata format: * oai_dc Set: Encode Resumption Token: false • Start harvesting files/records from: * Oct 03, 2017 Start time: 05 • : 41 • : 19 •	Normalization Mapping Set: * 01WMU_SCHOLARWORKS Enrichment Set: * No Enrichments - Template Harvested File Format: * *.tar.gz System Last Stage: * PERSISTENCE V	Maximum error threshold 5 % (1-100) prce DEDUP (1) prce FRBR (1)

ALWAYS "Test Connection"!

DELETE PIPE

Pipe Name: [Same name as the Data Source]_DELETE

Pipe Description: [Same name as Pipe Name]

Pipe Type: Delete Data Source

Data Source: [Select the Data Source you created earlier]





RENORM PIPE

What is a Renorm pipe? Instead of harvesting or deleting data, the Renorm pipe applies changes in the Normalization rules to existing data already harvested.

Pipe Name: [Same name as Data Source]_RENORM

Pipe Description: [Same as Pipe Name]

Pipe Type: No harvesting - Update Data Source

Data Source: [Select the Data Source you created earlier]

Normalization Mapping Set: [Select the Mapping Set created earlier]

Enrichment set: No Enrichments – Template

System Last Stage: Persistence

Define Pipe

Owner: Western	Michigan University	(Alma) Pipe Name: 01	WMU_SC	HOLARWORKS_RENOR	M Pipe Type: No harvesting - Update Data Source
Pipe Description:	01WMU_SCHOLARW ScholarWorks data in	ORKS_RENORM - apply normaliz Primo	zation rule:	s to existing	
Source		Normalization a	and Enri	chment	Errors
Data Source: * 01WMU_SCH	DLARWORKS V	Normalization Mapping Set: * 01WMU_SCHOLARWORK Enrichment Set: * No Enrichments - Template	(S •	Priority: * Medium V	Maximum error threshold: 5 % (1-100)
		System Last Stage: * PERSISTENCE	•	Force DEDUP	

Congratulations!

You've created your pipes!

Sorry, you're not done...

THANK YOU MARIO!

BUT OUR PRINCESS IS IN ANOTHER CASTLE!







Adjust Code tables at the institutional level:

Primo Home > Advanced Configuration > All Code Tables

...or go to General > Code Tables

Primo DC04 PMTD-NA01 Production Primo Home > Advanced Configuration	General	Local Data	Publishi
Home Deploy & Utilities General Local Data F	Institutions List		
Advanced Configuration	Code Tab	les _الہ	
All Code Tables Manage all Come Tables	Mapping	Tables)
All Mapping Tables Manage all Mapping Tables	Primo Ana	alytics	
Full Normalization Rule Configuration Manage and configure Normalization Rules	Schedule	Primo Analytic	s
Tags Management			

***For all code tables: if a line already exists in Primo, you just need to click "Customize" so that you can edit it, otherwise it is 'grayed out'. If no code line exists, you may need to add it!



Check Code table "FrontEnd Display Fields" to select the next available local display field (lds##) not yet in use and customize it.

Name it whatever you would like things in this collection to display. For example, we have used:

"ScholarWorks at WMU"

"ArchivesSpace"

"LUNA Insight Collection"

...etc.

Code Table Row	IS		
Enabled	Field Code ▲▼	Field Name 🔺 🔻	Language 🔺
			en_US ▼
	lds18	ScholarWorks at WMU	en_US
 Image: A start of the start of	lds04	LUNA Insight Collection	en_US

Don't forget which lds## field you've chosen and make sure it's enabled!



In both Code tables "Advanced Index Fields" and "Basic Index Fields," select the next available local search field (Isr##) not yet in use and customize it.

Make sure you use the same lsr## for both.

We usually choose to name these the same as the Display Code (previous slide).

Enabled	Field Code ▲▼	Field Name ▲▼	Language▲▼
			en_US ▼
	lsr18	ScholarWorks at WMU	en_US
	lerN5	Call Number	en US



In Code table "Advanced Media Type" add an enabled line with:

Code: default.search-advanced.mediaType.[resource type]

Description: [Resource type]

Language: en_US

Code Table Rows

Enabled	Code▲▼	Description A	Language
			en_US ▼
	default.search-simple.mediaType.option.libguides	Research Guides	en_US
-	The second secon	h ••	

In Code table "Basic Media Type," add an enabled line with:

Code: default.search-simple.mediaType.option.[resource type]

Description: [Resource type]

Language: en_US



In Code table "Facets Code Fields" select the next available local facet field (facet_local##) not yet in use and customize.

We usually choose to name these the same as the Display Code and Index Fields (previous two slides).

Enabled	Field Names	Field Codes ▲ ▼	Language 🔺 🎙
			en_US <
	facet_local18	ScholarWorks at WMU	en_US
	facet local3	Course Instructors	en US



In Code table "Facet Labels" create two new code table lines.

Add or customize lines with the following codes:

default.facets.facet_local[same number as previous slide]

default.facets.search-box.facet_local[same number as above]

Description: We usually choose to name these the same as the Display Code, Index Fields, and Local Facet Field (previous three slides).

Language: en_US

Enabled	Code▲▼	Description A	Language 🔺
			en_US 🔻
•	default.facets.facet_local18	ScholarWorks at WMU	en_US
•	default.facets.search-box.facet_local18	ScholarWorks at WMU	en_US



In Code table "Facet Resource Type"

Add an enabled line with:

Code: default.facets.facet.facet_rtype.[resource type]

Description: [resource type]

Language: en_US

Enabled	Code ▲▼	Description A	Language ▲ ▼
			en_US ▼
	default.facets.facet_facet_rtype.libguides	LibGuides	en_US
	default facets facet facet, itune Audio Visual	audio video	on 119



Normalization Rules are easily one of the most daunting and frustrating steps of the process! Take your time.

Tips:

If you get really turned around in the Primo Back Office, log out completely and log back in.

If you've done all the previous steps, take a break and come back to this part another day.



Primo Home > Advanced Configuration > Full Normalization Rule Configuration

...or go to Local Data > Normalization Sets







Edit the Normalization Set you created in an earlier step

Owner	Normalization Rules Set Name	Version	Description	Normalization Rule Format	25
Western Michigan University (Alma)	01WMU_LUNA	8		dublin_core	Edit
Western Michigan University (Alma)	01WMU_ALMA	21		marc	Edit
Western Michigan University (Alma)	01WMU_CONTENTDM	7		dublin_core	Edit
Western Michigan University (Alma)	WMU_LibGuides	9		dublin_core	Edit
Western Michigan University (Alma)	01WMU_SCHOLARWORKS	9		dublin_core	Edit



Check the box to show empty PNX fields!

Remember the lds##, lsr##, and facet_local## you used earlier? You will need to know them now!

Display > lds##

Description: [Data source name] set name

Action: ADD

Comments: Display [Data Source name] set name: Build custom display field as "[Data source name]"

Click Create to create a new rule

Type: PNX

XPath: control/sourcerecordid

Transformations:

"Take until first occurrence" ; Parameter: -

"Use mapping table"; Parameter: [Mapping table name] (ex.: 01WMU_Scholarworks_Set_Names)



Search > **lsr##**

Description: [Data Source name]

Comments: Searchable collection flag

Action: **ADD**

Click Create to create a new rule

Type: Constant

Value: [Data Source name]

Transformation:

"Copy As Is" ; Parameter: <blank>



Facet > **lfc##**

Description: ScholarWorks set name

Comments: ScholarWorks set name: Build custom facet field

Action: **ADD**

Type: **PNX**

```
XPath: control/sourcerecordid
```

Transformations:

```
"Take until first occurrence" ; Parameter: /
```

```
"Use mapping table" ; Parameter: [Mapping table name]
```



Facet > **Topic**

Action: **ADD**

Source: XML dc:subject

Transformation:

"Split Field" ; Parameter: ; (semi-colon)



Search > Searchscope

Verify a rule is present, which uses PNX control/sourceid (you might not need to add anything!)

Action: **ADD**

Transformations:

"Copy As Is"



Delivery and Scoping > Institution

Verify a rule is present, which says:

Action: **ADD**

Type: Constant

Value: [Your Institution code]

Transformations:

"Copy As Is"

This rule should allow "Browse > Institution" rules to pick up PNX delivery/institution to populate correctly.



Display > **Type**

Action: **ADD**

Source: **Constant** ; Value: [whatever resource type you have] (example: digital_object)

Transformation:

"Copy As Is"

FYI Make sure that there is only ONE type. Disable or remove other rules.



Links > Link to Resource	Condition 1 – Logic: True
Source: YMI	Condition 1 – Source: XML
Source. AIVIL	Path: dc:url
Path: dc:url	Success if: match current
Conditions: True	Routine: starts with string
	Parameter: http://
	Transformations
	Copy as is
	Add to beginning of string: \$\$U
	Add to end of string: \$\$Elinktorsrc
	Actions: ADD


Workflow: Normalization Rules

Links > Link to Resource	Condition 1 – Logic: True	
Source: XML	Condition 1 – Source: XML	
	Path: dc:identifier	
Path: dc:identifier	Success if: match current	
Conditions: True	Routine: starts with string	
	Parameter: https://	
	Condition 2 – Logic: True	
	Condition 2 – Source: XML	
	Path: dc:identifier	
	Success if: match current	
	Routine: starts with string	

Parameter: http://

Transformations

Copy as is

Add to beginning of string: \$\$U

Add to end of string: \$\$Elinktorsrc

Actions: ADD





Don't forget to deploy your:

Normalization Rules

Code Tables & Mapping Tables

...before moving on to the next steps!



Workflow: Views

Primo Home > Ongoing Configuration Wizards > Views Wizard > [**Primo Institution Code**]

In the view "Search Scope List" for *all relevant search scopes,* check or select search scope value "[Data Source name]"

In "Full Display > Full Results" - Add field name of your lds## to the Detail display

Add lds## field.

	Code Table Rows			
	Enabled	Field Code ▲▼	Field Name 🔺	Language
Remember this?				en_US ▼
		lds18	ScholarWorks at WMU	en_US
		lds04	LUNA Insight Collection	en_US





Don't forget to deploy your:

Views



Workflow: Run the Pipe

RUN YOUR HARVEST PIPE!

Give Primo time to finish harvesting and re-indexing. It may take a day or even a couple days for your resources to appear!



Workflow: Moving to Production

Recreate all your steps in Production

Tread carefully; sometimes it seems like you've done everything exactly the same as the Sandbox and it still doesn't work

Don't feel guilty about walking away and coming back later to try again

Don't be afraid to ask for help; pipes are notoriously difficult!



Workflow: Production Testing

Everything you tested in Sandbox should be tested in Production!

Sometimes other Sandbox settings are different from Production (when was the last time you had a refresh?) that can interfere!



Workflow: Harvesting Schedule

Publishing > Scheduler

Schedule your harvest pipe to run as desired





Workflow: Harvesting Schedule

Things to consider when deciding your harvest schedule:

Frequency with which the resources are updated

Resource is harvested into other platforms requiring different configurations

Days/times would best suit harvest



