

TRAILBLAZER ADVENTURER
INNOVATOR DEFENDER CHALLENGER
ADVENTURER TRAILBLAZER DEFENDER VISIONARY

**Make Primo VE a One Stop Search
for users**

Wei Xuan



UNIVERSITY
OF MANITOBA

Where am I from?

University of Manitoba

- Established in 1877
- First university in Western Canada
- > 29,000 students
- > 145,000 alumni in 140 countries



ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY INNOVATOR
TRAILBLAZER CHALLENGER DEFENDER VISIONARY INNOVATOR TRAILBLAZER CHALLENGER DEFENDER VISIONARY INNOVATOR TRAILBLAZER CHALLENGER

University of Manitoba (main campus)



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University of Manitoba Libraries

- 11 libraries on two campuses.
- 1 virtual library.
- First Alma library in Canada.
- Migrated from Primo to Primo VE in 2018
- Interested in other Ex Libris' products such as Leganto



Software used at UML

- Primo VE – discovery platform for patrons
<https://search.lib.umanitoba.ca>
- LibGuide – subject guides + database AZ list
<https://libguides.lib.umanitoba.ca/az.php>
- Islandora – UM unique digital content
<https://digitalcollections.lib.umanitoba.ca/>
- Dspace – institutional repository for open access
<https://mspace.lib.umanitoba.ca>



Software used at UML - inconvenience

- Information silos are within the software system. Users may need to make a search on all the four platforms to retrieve complete results. It does not promote serendipitous discovery.



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Solution: Primo VE – One-Stop Search



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Solution - details

- Introduction to OAI-PMH
 - “The Open Archives Initiative (OAI) develops and promotes interoperability standards”.
 - The Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) promotes metadata exchange.
 - Data providers expose structured metadata.
 - Service Providers harvest metadata from data providers.
 - <https://www.openarchives.org>



Solution (cont'd)

- Data providers
 - LibGuide
 - Islandora
 - Dspace
- Service provider
 - Primo VE



Configuration in LibGuide

LibGuides ▾

Home

Content ▾

Tools ▾

Discussions ▾

Statistics

Admin ▾


Help

Libraries / LibGuides / LibGuides Home

LibGuides Home

Welcome to the Dashboard - your one stop shop for all the LibGuides you manage

Hot Off The Presses!



Widgets

API

Data Exports

Link Checker

Search & Replace

Would you look at that? These things want you to pay them some attention...

- Lisa Ohara deleted a guide: [Copy of Elizabeth Dafoe Library Information Pages](#)



Configuration in LibGuide

Data Exports

- XML
- Guide HTML
- OAI-PMH

Harvest and add LibGuides metadata to your third-party application using the OAI-PMH protocol. For more information on OAI-PMH, see <http://www.openarchives.org/OAI/2.0/openarchivesprotocol.html>.

Your base OAI-PMH URL is:

https://libguides.lib.umanitoba.ca/oai.php

LibGuides supports the standard oai_dc metadata format. Use your base URL (shown above) along with the 6 standard OAI-PMH requests to retrieve metadata from your published LibGuides in XML. A few example requests:

URL	Description
https://libguides.lib.umanitoba.ca/oai.php	Base URL for OAI-PMH repository
https://libguides.lib.umanitoba.ca/oai.php?verb=Identify	Display information about this repository
https://libguides.lib.umanitoba.ca/oai.php?verb=ListRecords&metadataPrefix=oai_dc	Display all records in the oai_dc metadata format
https://libguides.lib.umanitoba.ca/oai.php?verb=ListRecords&metadataPrefix=oai_dc&set=guides	Display all guides in the oai_dc metadata format
https://libguides.lib.umanitoba.ca/oai.php?verb=ListRecords&metadataPrefix=oai_dc&set=az	Display all A-Z records in the oai_dc metadata format
https://libguides.lib.umanitoba.ca/oai.php?verb=ListRecords&metadataPrefix=oai_dc&set=er_courses	Display all ER Courses in the oai_dc metadata format (ER module required)



Configuration in Islandora

The screenshot shows the Islandora web interface. The top navigation bar includes links for Dashboard, Content, Structure, Appearance, People, Modules, Configuration, Islandora, Reports, and Help. The 'Configuration' link is highlighted with a red arrow. Below the navigation bar, the breadcrumb trail reads 'Home » Administration » Islandora » Islandora Utility Modules'. The main heading is 'Islandora OAI'. A red box highlights a security update message: 'There is a security update available for your version of Drupal. To ensure...'. The 'CONFIGURATION' section contains three fields: 'Repository Name' (UM DigitalCollections), 'Path to the Repository' (https://digitalcollections.lib.umanitoba.ca/oai2), and 'Repository unique identifier' (digitalcollections.lib.umanitoba.ca). The 'Path to the Repository' field is circled in red. A dropdown menu is open from the 'Islandora' link, showing options like Configuration, Islandora Utility Modules, Islandora Viewers, Manage Deleted Objects, Manidora, Metadata, Solr index, Solution pack configuration, XML Sitemap Integration, Binary Object Collection, Collection Search, FITS Tool, Islandora Batch Settings, Islandora OAI, Islandora Simple Map, Islandora XACML, OCR Tool, and Sparql to Solr Replacements. A red arrow points to the 'Islandora OAI' option in the dropdown.

Home » Administration » Islandora » Islandora Utility Modules

Islandora OAI

There is a security update available for your version of Drupal. To ensure...

CONFIGURATION

Repository Name *
UM DigitalCollections

Path to the Repository *
https://digitalcollections.lib.umanitoba.ca/oai2
The path where the OAI-PMH service will respond, e.g. https://digitalcollections.lib.umanitoba.ca/oai2

Repository unique identifier *
digitalcollections.lib.umanitoba.ca



Configuration in Dspace

```
#-----#
#-----OAI CONFIGURATIONS-----#
#-----#
# These configs are used by the OAI-PMH interface #
#-----#

# Storage: solr | database (solr is recommended)
oai.storage=solr

# The base URL of the OAI webapp (do not include the context e.g. /request, /openaire, etc).
# Note: Comment out if you want to fallback to the request's URL.
oai.url = ${dspace.baseUrl}/oai

# Base solr index
oai.solr.url=${solr.server}/oai
# OAI persistent identifier prefix.
# Format - oai:PREFIX:HANDLE
oai.identifier.prefix = ${dspace.hostname}
# Base url for bitstreams
oai.bitstream.baseUrl = ${dspace.url}

# Base Configuration Directory
oai.config.dir = ${dspace.dir}/config/crosswalks/oai

# Description
oai.description.file = ${dspace.dir}/config/crosswalks/oai/description.xml

# Cache enabled?
oai.cache.enabled = true

# Base Cache Directory
oai.cache.dir = ${dspace.dir}/var/oai
```



Configuration in Dspace

DSpace OAI-PMH Data Provider

Identify

Sets

Records

Identifiers

Metadata

Response Date 2019-07-29 18:39:32

Repository Information

Repository Name	MSpace - DSpace at UofM
E-Mail Contact	mspace@umanitoba.ca
Repository identifier	mspace.lib.umanitoba.ca
Sample identifier	oai:mspace.lib.umanitoba.ca:1993/1234
Protocol Version	2.0
Earliest Registered Date	1977-01-01 16:55:02
Date Granularity	YYYY-MM-DD hh:mm:ss
Deletion Mode	transient

<https://mspace.lib.umanitoba.ca/oai/request?verb=Identify>



A low-angle, upward-looking photograph of a multi-story stone building, likely a university hall. The building features large, arched windows and a prominent corner tower. A Canadian flag flies from a pole on the roof. The sky is blue with light clouds. Green foliage is visible in the top left and bottom right corners. A semi-transparent blue rectangle is overlaid on the center of the image, containing the title text in yellow.

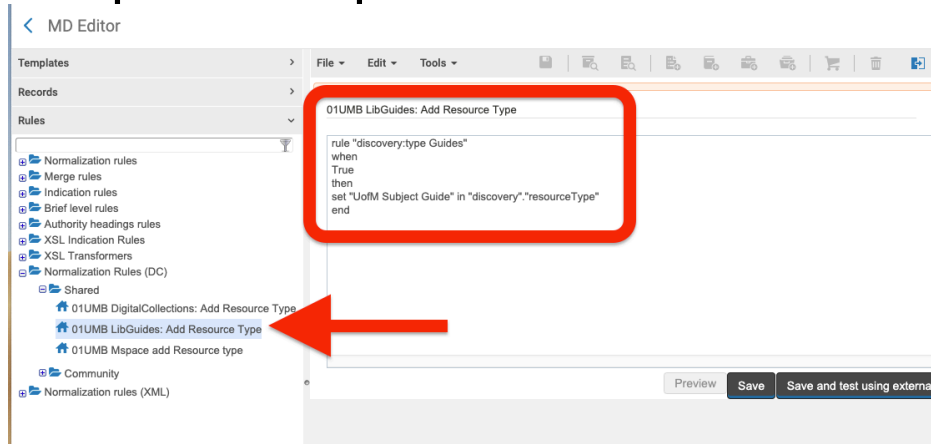
Import external data into Primo VE



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Import data from LibGuide

Step 1: Set up normalization rules.



Since LibGuide is a Dublin Core source, we can only set the normalization rule for resource type. We use “UofM Subject Guide” as the resource type.



Import data from LibGuide

Step 2: Create a normalization process task.

< Process Details - General Information

DISCOVERY_BIB_MMS			
Business Entity ID	Discovery BIB Records	Type	Discovery DC normalization
888777839980001651			

General Information

Task List

Task Parameters

Name *

LibGuide

Description *

Normalization rule for LibGuides

Status

Active

Status Date

-

The setup is straightforward.
The normalization rule created in Step 1 should be used as the Drools file key.



Import data from LibGuide

Step 3: Create an import profile.

< Import Profile Details

Profile Details **Normalization** Delivery

Profile Details

Profile name * LibguidesOAI

Profile description

Data Source Code * LibguidesOAItestWei Data Source Label * University

Originating system * Other File name patterns

Import Protocol OAI

Physical source format XML

Source format Dublin Core Target format Dublin Core

Status Active



Import data from LibGuide

Step 3: Create an import profile (cont'd).

Scheduling

Scheduler status ☒ Active ☐ Inactive

Scheduler *

Email Notifications

OAI Details

OAI Base URL *

Authentication ☐

Connect and Edit

The profile can be scheduled to run daily/weekly/monthly.

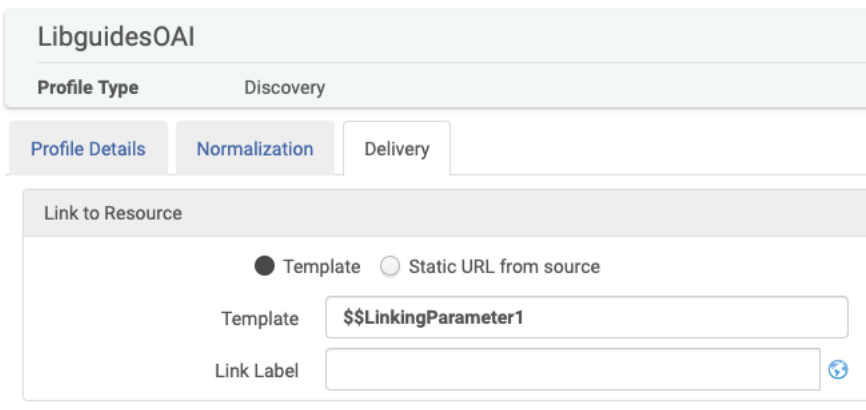
The OAI Base URL is provided by SpringShare.

The profile can be tested via “Open Test Page”



Import data from LibGuide

Step 3: Create an import profile (cont'd).



The screenshot shows the 'LibguidesOAI' import profile configuration page. The 'Profile Type' is set to 'Discovery'. The 'Profile Details' tab is active, showing the 'Link to Resource' section. In this section, the 'Template' radio button is selected, and the 'Template' text field contains '\$\$LinkingParameter1'. The 'Link Label' text field is empty. A small globe icon is visible next to the 'Link Label' field.

Template instead of static URL from source is used as the link for delivery.

There may be several dc:identifier tags in a source record. Using template allows us to pick the http(s) one as the link.




Import data from LibGuide

Step 4: Run the import.

Profile type : **Discovery** ▼

ID	Stat	Profile name	Profile description	Profile Type	Contributed by	
1 888629692150001651	A...	LibguidesOAI	-	Discovery	-	...
2 888774085520001651	A...	UM_DAM	-	Discovery	-	
3 888629702060001651	A...	UM_MSpace	-	Discovery	-	



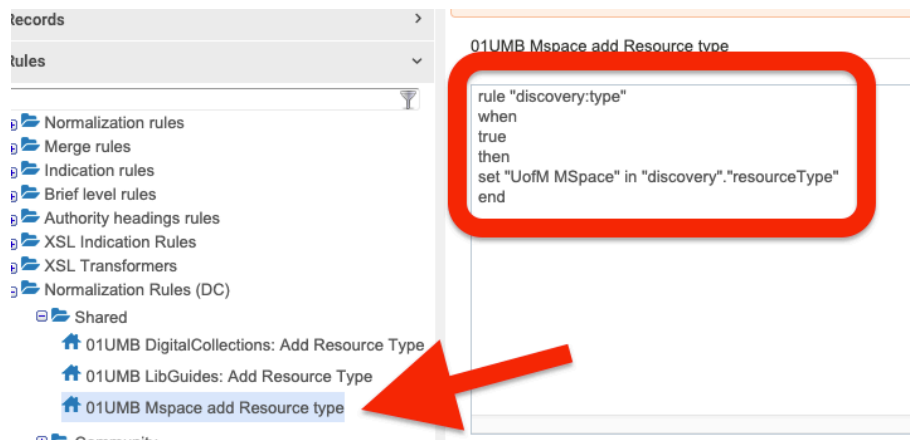
- Edit
- View
- History
- Run
- Copy
- Contribute
- Delete

You can run the import immediately or wait for the scheduled time.



Import data from DSpace

Step 1: Set up normalization rules.



Since MSpace can be a Dublin Core source, we only need to set the normalization rule for resource type. We use “UofM MSpace” as the resource type.



Import data from DSpace

Step 2: Create a normalization process task.

< Process Details - General Information

DISCOVERY_BIB_MMS	
Business Entity ID	Discovery BIB Records 888629719540001651
<div>General Information</div> <div>Task List</div> <div>Task Parameters</div>	
Name *	<input type="text" value="UM_MSpace"/>
Description *	<input type="text" value="UM MSpace"/>
Status	<div>Active</div>
Status Date	-

The setup is straightforward.
The normalization rule created
in Step 1 should be used as the
Drools file key.



Import data from DSpace

Step 3: Create an import profile.

< Import Profile Details

Profile Details Normalization Delivery

Profile Details

Profile name *	UM_MSpace	
Profile description		
Data Source Code *	UMB_MSpace	Data Source Label * University of M
Originating system *	Other	File name patterns
Import Protocol	OAI	
Physical source format	XML	
Source format	Dublin Core	Target format Dublin Core
Status	Active	



Import data from DSpace

Step 3: Create an import profile (cont'd).

Scheduling

Scheduler status

☒ Active ☐ Inactive

Scheduler *

Every Saturday at 03:00

Email Notifications

OAI Details

OAI Base URL *

http://mspace.lib.umanitoba.ca/oai/request

Authentication

☐

Connect and Edit

Repository Name

MSpace - DSpace at UofM

The profile can be scheduled to run daily/weekly/monthly.

The OAI Base URL is provided by SpringShare.

The profile can be tested via “Open Test Page”



Import data from DSpace

Step 3: Create an import profile (cont'd).

UM_MSpace

Profile Type: Discovery


Profile Details | Normalization | Delivery

Link to Resource

☒ Template ☐ Static URL from source

Template:

Link Label:



Template instead of static URL from source is used as the link for delivery.

There may be several dc:identifier tags in a source record. Using template allows us to pick the http(s) one as the link.



Import data from DSpace

Step 4: Run the import.

Profile type : Discovery ▾

ID	Stat	Profile name	Profile description	Profile Type	Contributed by	
1 888629692150001651	A...	LibguidesOAI	-	Discovery	-	...
2 888774085520001651	A...	UM_DAM	-	Discovery	-	...
3 888629702060001651	A...	UM_MSpace	-	Discovery	-	...

You can run the import immediately or wait for the scheduled time.

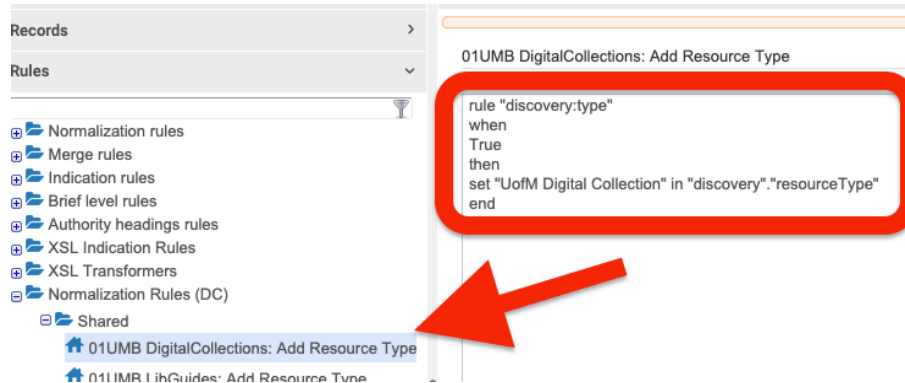


- Edit
- View
- History
- Run
- Copy
- Contribute
- Delete



Import data from Islandora

Step 1: Set up normalization rules.



Since Islandora can be a Dublin Core source, we only need to set the normalization rule for resource type. We use “UofM MSpace” as the resource type.

Import data from Islandora

Step 2: Create a normalization process task.

DISCOVERY_BIB_MMS	
Business Entity ID	Discovery BIB Records 888779267360001651

General Information

Task List

Task Parameters

Name *

UM_DigitalCollections

Description *

UM Digital Collections

Status

Active

Status Date

-

The setup is straightforward.
The normalization rule created in Step 1 should be used as the Drools file key.

Import data from Islandora

Step 3: Create an import profile.

[<](#) Import Profile Details

Profile Details

Normalization

Delivery

Profile Details

Profile name *

UM_DAM

Profile description

Data Source Code *

UM_DAM

Data Source Label *

Universi

Originating system *

Other

File name patterns

Import Protocol

OAI

Physical source format

XML

Source format

Dublin Core

Target format

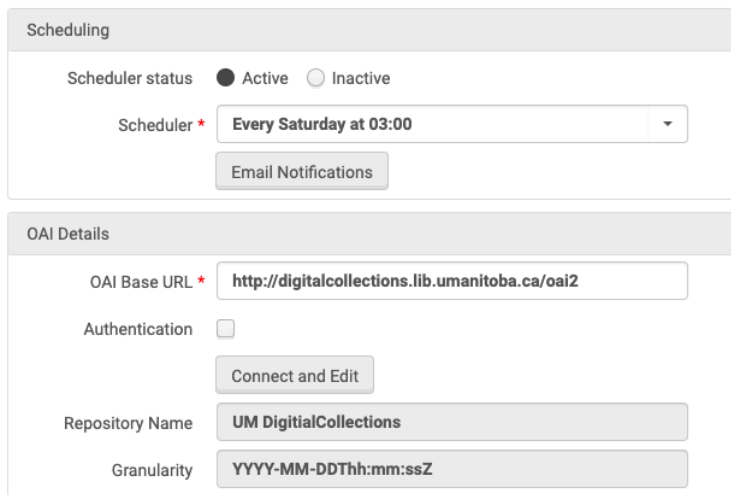
Dublin C

Status

Active

Import data from Islandora

Step 3: Create an import profile (cont'd).



The screenshot shows a web form with two main sections: 'Scheduling' and 'OAI Details'. The 'Scheduling' section includes a 'Scheduler status' with 'Active' selected, a 'Scheduler' dropdown menu set to 'Every Saturday at 03:00', and an 'Email Notifications' button. The 'OAI Details' section includes an 'OAI Base URL' text field with 'http://digitalcollections.lib.umanitoba.ca/oai2', an 'Authentication' checkbox, a 'Connect and Edit' button, a 'Repository Name' text field with 'UM DigitalCollections', and a 'Granularity' text field with 'YYYY-MM-DDThh:mm:ssZ'.

Scheduling

Scheduler status: ☒ Active ☐ Inactive

Scheduler *

OAI Details

OAI Base URL *

Authentication ☐

Repository Name

Granularity

The profile can be scheduled to run daily/weekly/monthly.


The OAI Base URL is provided by Islandora.

The profile can be tested via “Open Test Page”

Import data from Islandora

Step 3: Create an import profile (cont'd).

The screenshot shows the 'UM_DAM' import profile configuration page. The 'Profile Type' is set to 'Discovery'. The 'Delivery' tab is selected, showing the 'Link to Resource' section. In this section, the 'Template' radio button is selected, and the 'Template' field contains the value '\$\$LinkingParameter1'. The 'Link Label' field contains the value 'Link to Record' and includes a globe icon for internationalization.

UM_DAM		
Profile Type	Discovery	
Profile Details	Normalization	Delivery
Link to Resource		
<input checked="" type="radio"/> Template <input type="radio"/> Static URL from source		
Template	<input type="text" value="\$\$LinkingParameter1"/>	
Link Label	<input type="text" value="Link to Record"/> 	

Template instead of static URL from source is used as the link for delivery.

There may be several dc:identifier tags in a source record. Using template allows us to pick the http(s) one as the link.

Import data from Islandora

Step 4: Run the import.

Profile type : **Discovery** ▾

ID	Stat	Profile name	Profile description	Profile Type	Contributed by	
1 888629692150001651	A...	LibguidesOAI	-	Discovery	-	...
2 888774085520001651	A...	UM_DAM	-	Discovery	-	...
3 888629702060001651	A...	UM_MSpace	-	Discovery	-	

You can run the import immediately or wait for the scheduled time.



- Edit
- View
- History
- Run
- Copy
- Contribute
- Delete

Search results in Primo VE

Active filters

- UofM Subject Guide X
- UofM MSpace X
- UofM Digital Collection X

[reset](#)

Tweak your results

☐ [Include Results beyond UofM](#)

Sort by Relevance ▼

Availability ▲

Full Text Online


Publication Date ▲

From 1819 to 2019 [Refine](#)

PAGE 1 74,536 Results

- 

UOFM MSPACE
Protocole d'entente Canada-Manitoba portant sur le lac Winnipeg et le bassin du lac Winnipeg
Government of Canada; Government of [Manitoba](#)
2010-09-13
[Available Online](#) >
[Access for Users with Disabilities](#)
- 

UOFM MSPACE
Canada-Manitoba Memorandum of Understanding Respecting Lake Winnipeg and the Lake Winnipeg Basin
Government of Canada; Government of [Manitoba](#)
2010-09-13
[Available Online](#) >
[Access for Users with Disabilities](#)
- 

UOFM MSPACE
[Manitoba's](#) diamond jubilee, 1870-1930
1930



Further thoughts

- Only metadata is exported via OAI-PMH. It is convenient but cannot replace the original platforms where full text may be indexed.
- Choosing DC format in Alma allows to set up the import profile quickly but it doesn't remove un-necessary data.



Further thoughts

Details	
Title	Protocole d'entente Canada- Manitoba portant sur le lac Winnipeg et le bassin du lac Winnipeg
Author	Government of Canada > Government of Manitoba >
Subject	GOUVERNEMENT DU CANADA > GOUVERNEMENT DU MANITOBA > bassin du lac Winnipeg > lac Winnipeg >
Description	Protocole d'entente Canada- Manitoba portant sur le lac Winnipeg et le bassin du lac Winnipeg entre LE GOUVERNEMENT DU CANADA, represente aux presentes par le ministre de l'Environnement, qui est responsable du ministere de l'Environnement (<< le Canada») ET LE GOUVERNEMENT DU MANITOBA , represente aux presentes par le ministre de la Gestion des ressources hydriques, (<< le Manitoba ») Le Canada et le Manitoba sont collectivement appeles « les parties ».
Publisher	GOUVERNEMENT DU CANADA
Identifiant (ISBN, ISSN, etc.)	http://hdl.handle.net/1993/23441;oai:mspace.lib.umanitoba.ca:1993/23441
Creation Date	2010-09-13
Language	French
Source	University of Manitoba Libraries MSpace
Format	application/pdf



**Thanks !
&
Questions?**



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