

Digital Object Identifiers

Integrating Digital Object Identifiers

Rosetta supports the storing, generating, and publishing of Digital Object Identifiers (DOIs) in IEs. This allows external systems that store and resolve links to digital objects to store information about IEs in Rosetta.

Rosetta needs to be configured in order to integrate with the different systems that store the DOI values.

Configuring DOI Generation (Generic)

The configuration of the DOI generation task includes the following steps:

- Installing an instance of the CMSGenerator plug-in.
 - Adding the PiGeneratorGenericTask to an enrichment task chain.
 - Selecting the enrichment task chain that includes the DOI generation task as part of the SIP processing configuration setup.
 - Configuring the SIP routing rules in order to match the SIP processing configuration with the material flows.
 - Creating a task chain for generating the DOI as a stand-alone task chain, to be run as a process on IEs that are already in the permanent repository. This task chain should use the PiGeneratorGenericTask task, and its parameter should also be the plug-in instance that was created before (e.g. DOIGenerator).
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Creating an Instance of the CMSGenerator Plug-in

Use the Plug-in Manager UI to install an instance of the CMSGenerator plug-in. (The plug-in instance can be saved under a different name, such as DOIGenerator.)

Note

If you are re-installing or updating the plug-in, you must activate it.

To install an instance of the CMSGenerator plug-in:

1. Click **Plug-In Management** on the Home > Advanced Configuration page.
The Plug-In Management page opens.

	Plug-In Name	File Name	Plug-In Type Name	Plug-In Type	
1	AIFF-hul	AIFFHUL-MDextractor.jar	MDExtractorPlugin	java	Install
2	AIFF-hul-1.10	AIFFHULMDExtractor1_10Plugin.jar	MDExtractorPlugin	java	Install
3	AIFF-hul-1.17	AIFFHULMDExtractor1_17Plugin.jar	MDExtractorPlugin	java	Install
4	ASCII-hul	ASCIHUL-MDextractor.jar	MDExtractorPlugin	java	Install
5	ASCII-hul-1.10	ASCIHULMDExtractor1_10Plugin.jar	MDExtractorPlugin	java	Install
6	ASCII-hul-1.17	ASCIHULMDExtractor1_17Plugin.jar	MDExtractorPlugin	java	Install
7	BYTESTREAM-hul	BYTESTREAMHUL-MDextractor.jar	MDExtractorPlugin	java	Install
8	BYTESTREAM-hul-1.10	BYTESTREAMHULMDExtractor1_10Plugin.jar	MDExtractorPlugin	java	Install
9	BYTESTREAM-hul-1.17	BYTESTREAMHULMDExtractor1_17Plugin.jar	MDExtractorPlugin	java	Install
10	ChecksumDigitValidatorPlugin	ChecksumDigitValidator.jar	FieldValidatorPlugin	java	Install
11	CMS-converter	CMS-Converter.jar	ConverterRegistryPlugin	java	Install
12	CMSGenerator	CMSGenerator.jar	PIGenerator	java	Install

Plug-In Management Page

2. Click **Add Plug-In**.
The List of Plug-In page opens.

Plug-In Name	File Name	Plug-In Type Name	Plug-In Type		
1	AIFF-hul	AIFFHUL-MDextractor.jar	MDExtractorPlugin	java	Install
2	ASCII-hul	ASCIHUL-MDextractor.jar	MDExtractorPlugin	java	Install
3	BYTESTREAM-hul	BYTESTREAMHUL-MDextractor.jar	MDExtractorPlugin	java	Install
4	ChecksumDigitValidPlugin	ChecksumDigitValidator.jar	FieldValidatorPlugin	java	Install
5	CMS-converter	CMS-Converter.jar	ConverterRegistryPlugin	java	Install
6	CMSGenerator	CMSGenerator.jar	PIGenerator	java	Install

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List of Plug-In Page

3. Click the **Install** link in the row that contains the CMSGenerator plug-in.
The Plug-In Information page opens.

Plugin Information			
Plug-In Id	-	Plug-In Name	URNFixedLengthGenerator
Plug-In Type Name	PIGenerator	Implementation Type	java
Implementation Name	com.exlibris.dps.repository.pl...	Interface	-
Owner	-	Material Type	DIGITAL
Family Type	TASK	Description	URNFixedLengthGenerator
Resource Type	-	Module	Repository
Status	-	Plug-In Version	4.0
Public API	false		
Contact Information			
Contact Type	admin	Email address	shaib@exlibris.co.il
Last Name	Ltd	First Name	Exlibris
Address 1	Agodat Asport2 Building 9	City	Jerusalem
Telephone 1	-		
Plugin Parameters			
* Prefix	urn:nbn:de:bvb:12-		
* Type	URN		
Back		Cancel	Install

Plug-In Information Page

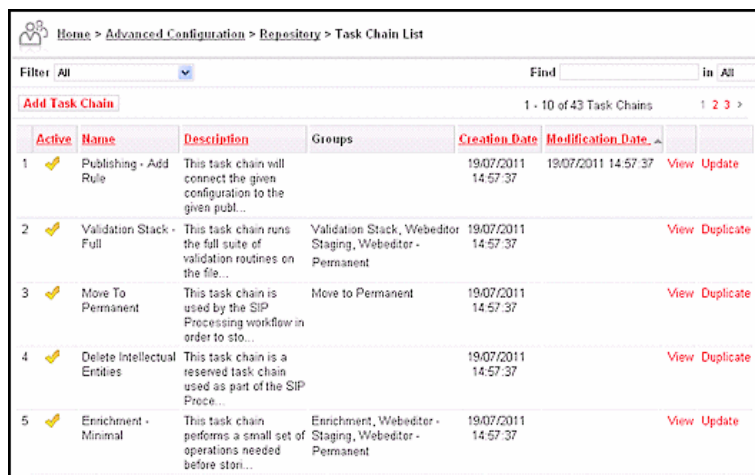
4. In the Plugin Information section, type a unique name and description for the plug-in instance.
5. In the Plugin Parameters section, enter the following fields:
 - **Prefix** – Enter the prefix for the DOI. For example, the IDs that are generated by this plug-in will be named **urn:nbn:de:bvb:12-01234556**, where the digits after the prefix are a generated database sequence.
 - **Type** – Enter the DOI type (such as **URN**).
6. Click **Install** to create the plug-in instance.
The Plug-In Management page opens.
7. In the list of plug-ins, click the check mark in the row that contains the new plug-in to activate the plug-in.

Adding the PiGeneratorGenericTask Task to an Enrichment Task Chain

This step adds a **PiGeneratorGenericTask** task to an enrichment task chain.

To add a task to the Enrichment task chain:

1. Click **List of Task Chains** on the Home > Advanced Configuration > Repository page.
The Task Chain List page opens.



Home > Advanced Configuration > Repository > Task Chain List

Filter: All Find in All

Add Task Chain 1 - 10 of 43 Task Chains 1 2 3 >

Active	Name	Description	Groups	Creation Date	Modification Date	
1	Publishing - Add Rule	This task chain will connect the given configuration to the given publi...		19/07/2011 14:57:37	19/07/2011 14:57:37	View Update
2	Validation Stack - Full	This task chain runs the full suite of validation routines on the file...	Validation Stack, Webeditor - Staging, Webeditor - Permanent	19/07/2011 14:57:37		View Duplicate
3	Move To Permanent	This task chain is used by the SIP Processing workflow in order to sto...	Move to Permanent	19/07/2011 14:57:37		View Duplicate
4	Delete Intellectual Entities	This task chain is a reserved task chain used as part of the SIP Proce...		19/07/2011 14:57:37		View Duplicate
5	Enrichment - Minimal	This task chain performs a small set of operations needed before stori...	Enrichment, Webeditor - Staging, Webeditor - Permanent	19/07/2011 14:57:37		View Update

Task Chain List Page

2. Click the **Update** link in the row containing the Enrichment task chain.
The Task Chain Details page opens.

Home > Advanced Configuration > Repository > List of Task Chains > Task Chain Details

ID: 10 Created By: SYSTEM Created On: 27/08/2011 00:20:15
 Updated By: Updated On:

General Information

* Name: Enrichment - with URN

* Description: This task will perform all of the enrichment processes needed before storing the content in the Permanent Repository. These processes include generation of

* Status: Active Status Date: 27/08/2011

* Log Level: Task * Log Sensitivity: All

Groups:

- Workbench
- Validation Stack
- Webeditor - Staging
- Preservation
- Move To Permanent
- Maintenance
- Webeditor - Permanent
- Metadata Validation
- Enrichment

Task List Task Parameters

Add Task

Set order	Name	Description	Next Step On Failure	
1	Cms Update	Cms Update		Delete
2	OBJECT INDEX TASK	Object Index Task		Delete

Task Chain Details Page

3. Click the **Add Task** button.
The Task List page opens.

Home > Advanced Configuration > Repository > List of Task Chains > Task List

Find: _____ in: All Go

31 - 40 of 55 Tasks << < 3 4 5 >>

	Name	Description	Privilege Group	Creation Date	Modification Date	
31	MoveToRecycleBinTask	Move Entities To Recycle Bin	FULL	27/08/2011 00:20:15	27/08/2011 00:20:15	View
32	DCReplacePlugin_Task	This task runs DCReplacePlugin	FULL	27/08/2011 00:24:24	27/08/2011 00:24:24	View
33	NLB_PiO_Plugin_Task	This task runs NLB_PiO_Plugin	FULL	27/08/2011 00:24:24	27/08/2011 00:24:24	View
34	NLB_PiO_Insert_Plugin	This task runs NLB_PiO_Insert	FULL	27/08/2011 00:24:25	27/08/2011 00:24:25	View
35	DCReplacePlugin2_Task	This task runs DCReplacePlugin	FULL	27/08/2011 05:03:23	27/08/2011 05:03:23	View
36	Pending File Checksum	Checksum Task	FULL	27/08/2011 00:20:15		View
37	Clean VS Data Task	Clean VS Data Task	FULL	27/08/2011 00:20:15		View
38	Format Identification Task	Format Identification Task	FULL	27/08/2011 00:20:15		View
39	TechID extraction Task	TechID extraction Task	FULL	27/08/2011 00:20:15		View
40	PiGeneratorGenericTask	Persistent Identifier Generator	FULL	27/08/2011 00:20:15		View

Add

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Task List Page

4. Select the **PiGeneratorGenericTask** task.
5. Click the **Add** button.
The PiGeneratorGenericTask task displays in the task list on Task Chain Details page.

Set order	Name	Description	Next Step On Failure	Delete
1	PiGeneratorGenericTask	Persistent Identifier Generator Task		Delete

Task List - Task Chain Details Page

6. Select the **Task Parameters** tab.
The information on the Task Parameters tab opens.

PiGeneratorGenericTask - Persistent Identifier Generator Task

* Persistent Identifier Generator Plug-in

Task Parameters - Task Chain Details Page

7. In the drop-down list, select the instance of the plug-in you created previously.
8. Click the **Save** button.

Selecting the Enrichment Task Chain as Part of the SIP Processing Configuration

In order to use the enrichment task chain that includes the new DOI creation task, make sure it is used in the SIP processing configuration that is in use.

To select the Enrichment task chain:

1. Click **SIP Processing Configuration** on the Home > Submissions > Configure Settings page.
The SIP Processing Configuration List page opens.

Home > Submissions > Configure Settings > SIP Processing Configuration List

Filter: All

Add Processing Configuration 1 - 7 of 7 Records

Active	Name	Description	Created Date	Updated Date				
1	✓ All Other	Any SIP that does not conform to one of the specific SIP routing rules is processing according to this configuration.		27/08/2011 04:14:26	View	Update	Duplicate	More...
2	✓ General Digital Material	All SIPs using generic or staff-mediated MF with (material type) unpublished, from producer (group) unpublished		27/08/2011 00:20:15	View	Update	Duplicate	More...
3	✓ General Published Material	All SIPs using a generic MF, producer (group) published	27/08/2011 00:20:15	27/08/2011 04:24:51	View	Update	Duplicate	More...

SIP Processing Configuration List Page

- Click the **Update** link in the row containing the SIP processing configuration. The SIP Processing Configuration page opens.

Submissions: SIP Processing Configuration / Details

General Information

* Name: General Digital Material

Description: All SIPs using generic or staff-mediated MF with (material type)

Priority: Normal

Validation Stages - Pre-approval Automatic Stage

Validation Stack Routine: Validation Stack - Full

Approval Stage - Manual Approval/Assessment Stage

Approval: Approver

Allow Split/Merge: Yes No

Enrichment - Post Approval Automatic Stage

Enrichment Routine: Enrichment - empty

Email Notification

Send Notification: Yes No

SIP Processing Configuration Page

- In the **Enrichment Routine** drop-down list, select the enrichment routine that includes the PiGeneratorGenericTask

task you added previously.

4. Click the **Save** button.

Setting the SIP Routing Rules

Make sure the SIP routing rules are using the right SIP processing configuration.

To set the SIP routing rules:

1. Click **SIP Routing Rules** on the Home > Submissions > Configure Settings page.
The SIP Routing Rule List page opens.

	Name	Description	Creation Date	Modification Date			
1	All other		11/02/2020 19:52:51	23/05/2021 21:29:31	Update	Duplicate	Delete
2	Rosetta METS deposit		14/09/2010 14:30:16		Update	Duplicate	Delete
3	Alma Flow Routing Rule		29/05/2018 16:40:08	26/05/2020 10:04:14	Update	Duplicate	Delete
4	Only for MF of DC XML - No URI		24/05/2020 14:47:00	24/05/2020 14:49:53	Update	Duplicate	Delete
5	General digital material		14/09/2010 14:30:16	08/07/2020 12:05:49	Update	Duplicate	Delete
6	GalS_SIP_ROUTING_RULE	GalS_SIP_ROUTING_RULE	24/02/2020 09:38:40	25/02/2020 09:52:39	Update	Duplicate	Delete
7	CSV Validation with SHA-512 fixity		21/05/2018 17:16:18	21/05/2018 18:48:50	Update	Duplicate	Delete
8	One time publications		14/09/2010 14:30:16		Update	Duplicate	Delete
9	Periodic publications		14/09/2010 14:30:16		Update	Duplicate	Delete
10	General digital material - virus check v2		28/09/2016 14:26:59	28/09/2016 14:27:22	Update	Duplicate	Delete

1 - 10 of 15 Records 1 2 > >>

Name	Description	Creation Date	Modification Date	
Default		14/09/2010 14:30:16	06/04/2020 14:28:07	Update

SIP Routing Rule List Page

2. Click the **Update** link in the row containing the SIP's routing rules.
The SIP Rule Details page opens.

Home / Submissions: SIP Routing Rules / Details

Rule Editor

* Name:

Description:

Created By: System Created on: 14/09/2010 14:30:16
 Updated By: John Smith Last Update on: 08/07/2020 12:05:49

Input General Parameters

Parameter	Operator	Value
Material Flow *	=	General digital material
Material Type *	=	Any
Producer *	=	Any
Producer Group *	=	Any

Output Parameters:

Parameter	Result
Approver Group *	Published Approver
Department *	Demo Department
Process Configuration Id *	General Digital Material

SIP Rule Details Page

3. Make sure the SIP routing rules are using the right SIP processing configuration.
4. Click the **Save** button.

DOI Creation as a Stand-Alone Task Chain

The DOI creation task can be added to a task chain that will be used in a process or a service on IEs that are already in the Permanent Repository.

To add a task to the Enrichment task chain:

1. Click **List of Task Chains** on the Home > Advanced Configuration > Repository page. The Task Chain List page opens.

Home > Advanced Configuration > Repository > Task Chain List

Filter: All Find: in All

[Add Task Chain](#) 1 - 10 of 43 Task Chains 1 2 3 >

Active	Name	Description	Groups	Creation Date	Modification Date	
1	Publishing - Add Rule	This task chain will connect the given configuration to the given publ...		19/07/2011 14:57:37	19/07/2011 14:57:37	View Update
2	Validation Stack - Full	This task chain runs the full suite of validation routines on the file...	Validation Stack, Webeditor - Staging, Webeditor - Permanent	19/07/2011 14:57:37		View Duplicate
3	Move To Permanent	This task chain is used by the SIP Processing workflow in order to sto...	Move to Permanent	19/07/2011 14:57:37		View Duplicate
4	Delete Intellectual Entities	This task chain is a reserved task chain used as part of the SIP Proce...		19/07/2011 14:57:37		View Duplicate
5	Enrichment - Minimal	This task chain performs a small set of operations needed before ston...	Enrichment, Webeditor - Staging, Webeditor - Permanent	19/07/2011 14:57:37		View Update

Task Chain List Page

2. Click the **Add Task Chain** button.
The Task Chain Details page opens.

Home > Advanced Configuration > Repository > List of Task Chains > Task Chain Details

ID: 31339 Created By: Created On: 27/08/2011
Updated By: John Smith Updated On: 27/08/2011 04:50:39

General Information

* Name: urnTaskChain
 * Description: URN generation task
 * Status: Active Status Date: 27/08/2011
 * Log Level: Task * Log Sensitivity: All

Groups:

- Workbench
- Validation Stack
- Webeditor - Staging
- Preservation
- Move To Permanent
- Maintenance
- Webeditor - Permanent
- Metadata Validation
- Enrichment

Task List Task Parameters

[Add Task](#)

Set order	Name	Description	Next Step On Failure	
1	PiGeneratorGeneric	Persistent Identifier Generator Task		Delete

[Cancel](#) [Save](#)

Task Chain Details Page

3. Click the **Add Task** button.
The Task List page opens.

Home > Advanced Configuration > Repository > List of Task Chains > Task List

Find in All

31 - 40 of 55 Tasks << < 3 4 5 >>

	Name	Description	Privilege Group	Creation Date	Modification Date	
31	MoveToRecycleBinTask	Move Entities To Recycle Bin	FULL	27/08/2011 00:20:15	27/08/2011 00:20:15	View
32	DCReplacePlugin_Task	This task runs DCReplacePlugin	FULL	27/08/2011 01:24:24	27/08/2011 00:24:24	View
33	NLB_PiD_Plugin_Task	This task runs NLB_PiD_Plugin	FULL	27/08/2011 01:24:24	27/08/2011 00:24:24	View
34	NLB_PiD_Insert_Plugin	This task runs NLB_PiD_Insert	FULL	27/08/2011 00:24:25	27/08/2011 00:24:25	View
35	DCReplacePlugin2_Task	This task runs DCReplacePlugin	FULL	27/08/2011 05:03:23	27/08/2011 05:03:23	View
36	Pending File Checksum	Checksum Task	FULL	27/08/2011 00:20:15		View
37	Clean VS Data Task	Clean VS Data Task	FULL	27/08/2011 00:20:15		View
38	Ferret Identification Task	Ferret Identification Task	FULL	27/08/2011 00:20:15		View
39	TechID extraction Task	TechID extraction Task	FULL	27/08/2011 00:20:15		View
40	PiGeneratorGenericTask	Persistent Identifier Generator	FULL	27/08/2011 00:20:15		View

Task List Page

4. Select the **PiGeneratorGenericTask** task.
5. Click the **Add** button.
The PiGeneratorGenericTask task displays in the task list on Task Chain Details page.

Task List | Task Parameters

Set order	Name	Description	Next Step On Failure	
1	PiGeneratorGenericTask	Persistent Identifier Generator Task	<input type="text"/>	<input type="button" value="Delete"/>

Task List - Task Chain Details Page

6. Select the **Task Parameters** tab.
The information on the Task Parameters tab opens.

Task List | Task Parameters

PiGeneratorGenericTask - Persistent Identifier Generator Task

* Persistent Identifier Generator Plug-in

Task Parameters - Task Chain Details Page

7. In the drop-down list, select the instance of the plug-in you created previously.
8. Click the **Save** button.

Configuring Handle Creation and Publishing

The Handle DOI (which is used by NLNZ) is implemented in Rosetta with the following tasks:

- **PiGeneratorTask** – creates the Handle.

- **PiPublisherTask** – publishes the Handle.

To use these tasks as part of the Enrichment task chain or as a stand-alone task chain, make sure these tasks are included in the list of tasks for the task chain, either in the Enrichment task chain that is used by the SIP Processing Configuration and the SIP Routing Rule, or in the list of tasks of the stand-alone task chain.

Task Chain ID: 10733542
 Created By: admin1
 Updated By: John Smith
 Updated On: 29/07/2013 14:38:00
 Created On: 29/07/2013 14:31:03

General Information

* Name: Enrichment - Minimal

* Description: This task chain performs a small set of operations needed before storing the content in the Permannet Repository. These processes include generation of thumbnails, CMS record enrichment as well as generation of the Repository's search indexes

* Status: Active
 Status Date: 29/07/2013

* Task Chain Level: IE

* Groups:

- Preservation
- Maintenance
- Validation Stack - Use file level tasks only
- Maintenance - Advanced
- Workbench
- Webeditor - Staging
- Enrichment
- Move To Permanent
- Metadata Validation
- Webeditor - Permanent

Task List | Task Parameters

Add Task

Order	Name	Description	Level	Next Step On Failure	
1	CMS Update	Synchronize between Rosetta and CMS system	INTELLECTUAL_ENTITY		Delete
2	Create Derivative Copy Representation	Create Derivative Copy Representation	INTELLECTUAL_ENTITY		Delete
3	Assign Collection By DC	Assign Collection By DC	INTELLECTUAL_ENTITY		Delete

Task Chain Details Page

Configuring NLB PID Creation and Publishing

The NLB PID is a DOI (used by NLB) that is implemented in Rosetta using the NLB_PID_Plugin_Task task, which creates and publishes the DOI.

In order to use this task as part of the Enrichment task chain or as a stand-alone task chain, make sure that this task is included in the list of tasks for the task chain, either in the Enrichment task chain that is used by the SIP Processing Configuration and the SIP Routing Rule, or in the list of tasks of the stand-alone task chain.

Task Chains / Details

Task Chain ID: 10733542 Created By: admin1 Created On: 29/07/2013 14:31:03
 Updated By: John Smith Updated On: 29/07/2013 14:38:00

General Information

* Name:

* Description:

* Status: Status Date: 29/07/2013

* Task Chain Level:

* Groups:

- Preservation
- Maintenance
- Validation Stack - Use file level tasks only
- Maintenance - Advanced
- Workbench
- Webeditor - Staging
- Enrichment
- Move To Permanent
- Metadata Validation
- Webeditor - Permanent

Task List Task Parameters

Add Task

Order	Name	Description	Level	Next Step On Failure	
1	CMS Update	Synchronize between Rosetta and CMS system	INTELLECTUAL_ENTITY	<input type="text"/>	Delete
2	Create Derivative Copy Representation	Create Derivative Copy Representation	INTELLECTUAL_ENTITY	<input type="text"/>	Delete
3	Assign Collection By DC	Assign Collection By DC	INTELLECTUAL_ENTITY	<input type="text"/>	Delete

Cancel Save

Task Chain Details Page