

How to Edit/Create Ingest Forms

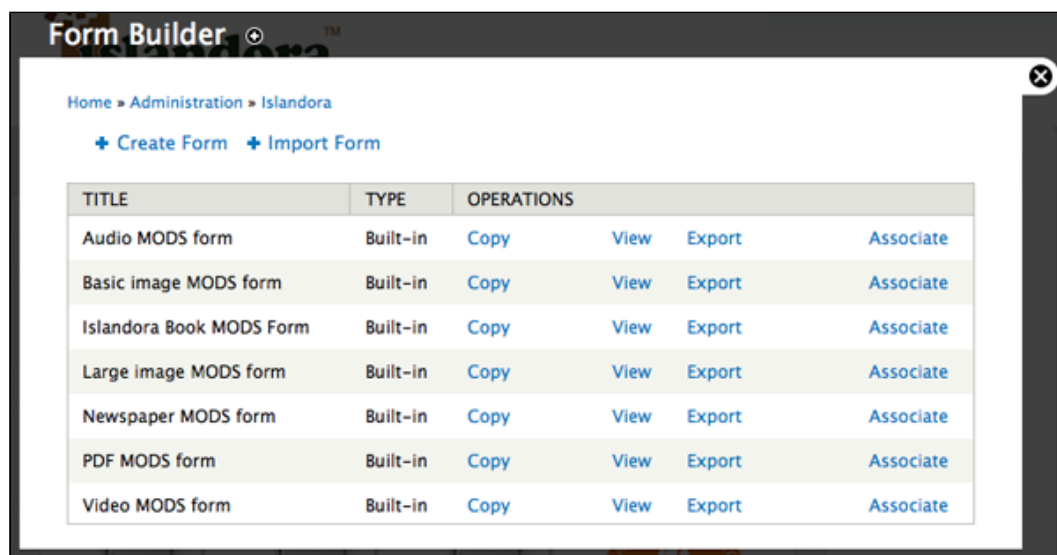
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How to Edit an Existing Form

The following section will show you where to access forms in your Islandora installation, and how to clone and edit a form, and associate it with a content model. This section is for people who do not have knowledge of XPath, and covers only minimal configuration options. If you are more familiar with XPath, and XML, then we suggest that you go straight to the section on creating custom ingest forms, which provides a more technical overview of the interface, as well as information for creating elements.

To access the XML form builder, log into your Islandora site as an administrator, and navigate to **Islandora** > **Form Builder** (admin/islandora/xmlform). You should see the screen below:

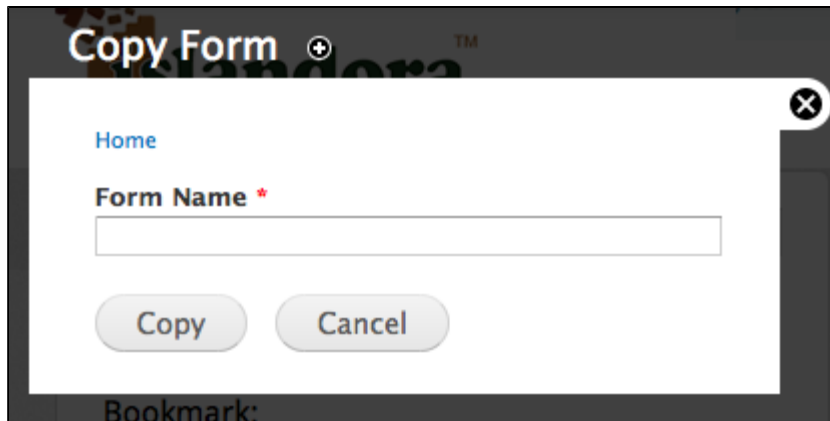


TITLE	TYPE	OPERATIONS
Audio MODS form	Built-in	Copy View Export Associate
Basic image MODS form	Built-in	Copy View Export Associate
Islandora Book MODS Form	Built-in	Copy View Export Associate
Large image MODS form	Built-in	Copy View Export Associate
Newspaper MODS form	Built-in	Copy View Export Associate
PDF MODS form	Built-in	Copy View Export Associate
Video MODS form	Built-in	Copy View Export Associate

Here you will see all of the forms currently available. From this point you can create, copy, edit, view, export, or associate forms. When creating a new form, it is best to start by cloning the existing form associated with the content model your collection is utilizing.

Don't know what form you are trying to clone? Visit the details for your solution pack in this guide to determine the name of the default form. Additional information about creating new forms is available in [Chapter 7 - Customizing Islandora](#)

In the list of available forms, find the form you want to clone and click “**Copy**.” On the next screen you will be prompted to give your new form a name:

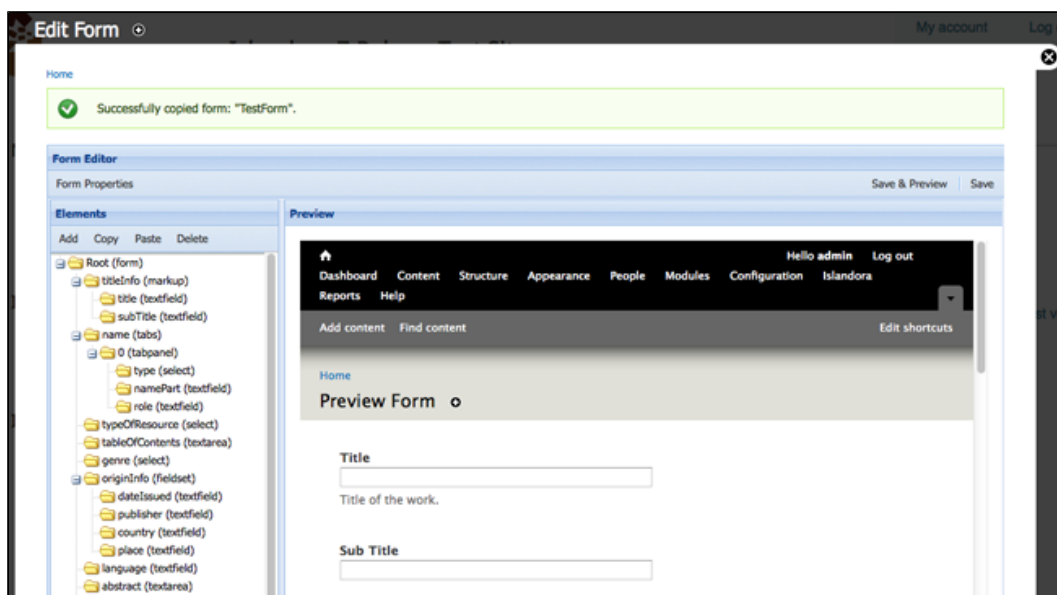
A screenshot of a web application window titled "Copy Form" with a plus icon in the top left and a close icon in the top right. Inside the window, there is a "Home" link in blue. Below it is a label "Form Name *" followed by a text input field. At the bottom of the window are two buttons: "Copy" and "Cancel". The window is overlaid on a dark background that shows a "Bookmark:" label at the bottom.

Make sure your name is something that you will remember.

Form names must start with a letter or underscore and they cannot contain spaces or special characters.

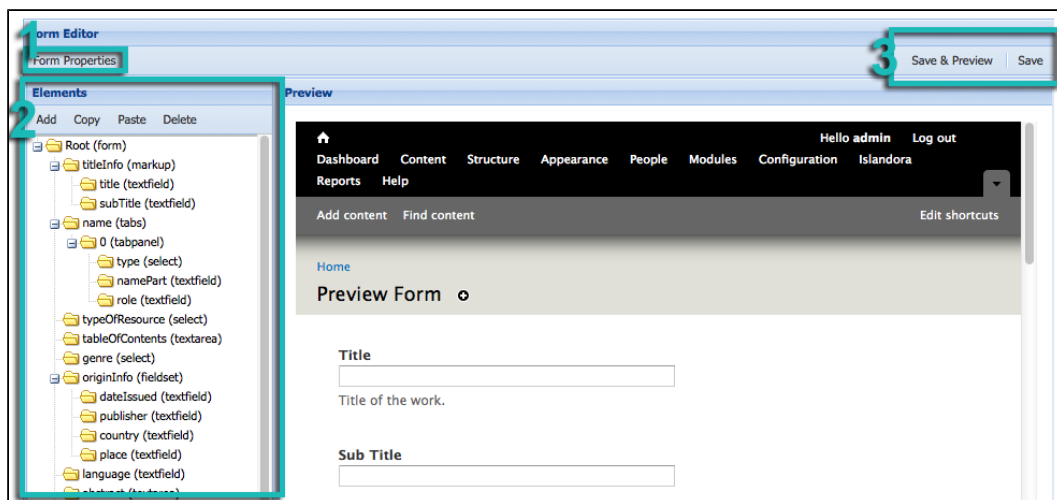
Once you have named your form, click “**Copy**.”

You will be redirected to the Form editing interface, and receive a message at the top that your form has been successfully created:



About the Form Builder Interface

1. Under “**Form Properties**” you can view the properties of your form.
2. Under “**Elements**” you can view the fields you have created for your form, as well as make changes to those fields. Clicking on an element name will allow you to view the way that element will be created, read, updated, and deleted when you interact with the form, and the resulting metadata that the form will write.
3. Click “**Save**” to save changes, and “**Save and Preview**” to save the changes and render the form in the preview screen.



To create a form using a new schema, you will have to create a new form from scratch, or clone a form of the appropriate schema. This requires knowledge of both XPath and the .xsd affiliated with that schema. To create a new element, you will also have to be familiar with XPath.

However, there are several simple “tweaking” functions you can perform that do not require in-depth knowledge of XPath and your schema’s .xsd. For example, you can delete an element (one that is deemed unnecessary for a user to fill out on ingest) by selecting the element with your cursor and clicking “**Delete.**”

Also, you can change the label of a field, or populate the field with a default value (for example, to pre-populate an author field for a author-specific collection) by selecting the element and editing the element's configuration properties.

Edit Form

Form Editor

Form Properties

Save & Preview Save

Elements

Add Copy Paste Delete

- Root (form)
 - dc:title (textfield)
 - dc:creator (textfield)
 - dc:contributor (textfield)
 - dc:description (textarea)
 - dc:coverage (tags)
 - 0 (tag)
 - dc:subject (textfield)
 - dc:type (select)
 - dc:format (textfield)
 - dc:identifier (textfield)
 - dc:language (textfield)
 - dc:publisher (textfield)
 - dc:relation (textfield)

Element Form

Identifier: dc:creator

Common Form Controls Advanced Form Controls More Advanced Controls

Type: textfield

Title: Creator

Description: An entity primarily responsible for making the resource.

Default Value:

Required: ☐

Here, you can change the label users see when interacting with this form field by changing the value for the **“Title”** of the element. You can change the description that appears underneath the entry box by changing the text in the **“Description”** field. If you want the field to be pre-populated with the creator’s name, enter the name in the **“Default Value”** field. In addition, if you want to make this field mandatory for you form, select the **“Require”** checkbox, and this field will appear with an asterisk, and the users will not be able to submit this form without filling in this field. Once you have made these changes, click **“Save and Preview.”** You will be able to view the form as it will appear to its users.

Preview Form

Title:

A name given to the resource.

Author:

Please provide the author's name in last name, first name format.

Contributor:

An entity responsible for making contributions to the resource.

Here the default “Creator” label has been changed to “Author” and customized instructions for users appear below this field. The Author field has been pre-populated with a name to prevent unnecessary repetition for users ingesting items into this collection. However, the user can still edit this field on ingest if there is a case where the author’s name is different.

Once you have tweaked this form, you will have to associate it with the appropriate content model in order for this form to appear as an option for users on ingest. To create an association between your new form and a content model, navigate back to **Islandora > Form Builder** (admin/islandora/xmlform) and select "Associate" on the form you wish to associate with a content model. You will see the following page:

Associate Form "Test Image Form"
My account
Log out

Home

CURRENT ASSOCIATIONS

CONTENT MODEL	TYPE	DATASTREAM ID	TITLE FIELD	TRANSFORM	HAS TEMPLATE	OPERATIONS
islandora:sp_basic_image	Custom	MODS	['titleInfo'] ['title']	mods_to_dc.xsl	No	Delete

ADD ASSOCIATION

Content Model *

The content model to associate with a form. If the content model has no descendants it will not show up in autocomplete.

Metadata Datastream ID *

The datastream ID of where the objects metadata is stored.

Title Field *

- Select -

The form field that you want to use for the objects label.

XSL Transform

No Transform

A xsl transform for setting the Fedora Object's Dublin Core metadata datastream.

Upload Template Document

A sample metadata file used to prepopulate the form on ingest.

In order to fill out this form appropriately, ensure that you are familiar with the details of your solution pack - particularly the name of the content model, and the name of the metadata stream it prescribes. If you are not sure, please review the Solution Pack documentation for your installed solution packs.

At the top of the screen, you can see that all existing form associations are listed.

Under "Content Model" begin typing the PID of the content model you wish to associate a form with, and the name will auto-complete:

Add Association

Content Model: *

islandora:str

islandora:strict_pdf

Under “**Metadata Datastream ID**” put in the DSID of the Datastream where your content model stores its rich metadata (not the DC Datastream). You must use the existing DSID prescribed in your content model (e.g., MODS, MARCXML, etc.), or this metadata will not appear in your collection objects. If you do not know what the correct DSID is for rich metadata in your content model, please review the documentation for the relevant content model. When you have entered the DSID for the Datastream, click "select" in the “**Title Field.**”

When you do this, you will notice that there is a change in the “**Title Field**” drop-down menu. Islandora populates this drop-down field with the elements in your form, so that you can choose which element will serve as the source for the object’s label. Most of the time, you will likely want the object's label to come from the “Title” element. This label can be manually edited after ingest if ever necessary.

Select which field you would like to use for the object’s label.

Title Field: *

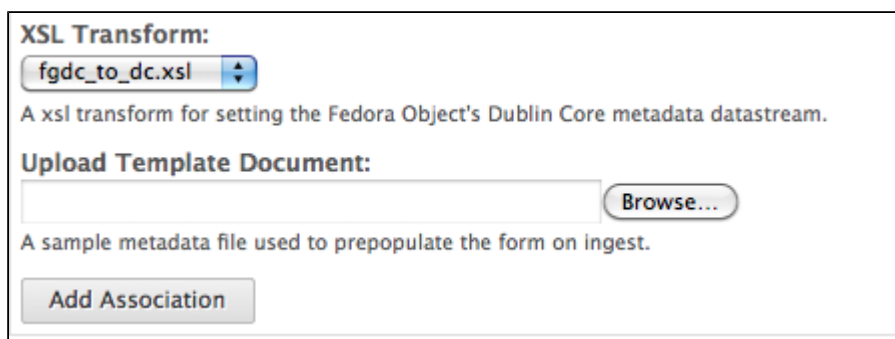
['dc:title']

['dc:title'] ent to use for the objects label.

['dc:creator']

['dc:contributor']

The next two options require a little bit more explanation:



The screenshot shows a web form titled "XSL Transform:". Below the title is a dropdown menu with "fgdc_to_dc.xsl" selected. A descriptive text line reads: "A xsl transform for setting the Fedora Object's Dublin Core metadata datastream." Below this is a section titled "Upload Template Document:" which includes a text input field and a "Browse..." button. Another descriptive text line reads: "A sample metadata file used to prepopulate the form on ingest." At the bottom of the form is a button labeled "Add Association".

The "XSL Transform" file you choose is used by Islandora to crosswalk the schema of your rich metadata XML to Islandora's default DC stream. In this case, where you are cloning a form, you will want to select the default xsl for your content model. This information is provided in the Solution Pack section of your document. (For more information about Islandora's use of .xslts, please review the "Islandora and Metadata" section of the guide. XSLT are called from a folder within islandora_content_model_forms (in the XML Forms modules).

The "**Template Document**" is a feature that allows you to submit a form with fields already completed. Usually, this will be a form that you have created by hand in an XML editor. It is not obligatory.

Click "**Add Association.**" Now, whenever you create an object in a collection that is associated with the content model you have used here, you will see your new form as an option to select in the drop down menu.

How to Create a New Custom Form

The following section presumes that you are using the Virtual Machine Image or are visiting <http://sandbox.islandora.ca> OR that you have installed and configured the XML Forms module, and that you have a basic knowledge of XPath and understand metadata schemas. For an overview of how Islandora handles descriptive metadata, read [Chapter 12 - Metadata in Islandora](#). This section will discuss how to create a new form using the Islandora Form Builder.

Introduction

The XML Forms Builder allows you to create and manipulate **XML form templates** and associate them with **content models**. This allows you to create custom forms to address the needs of your particular collection, or to pre-populate repeating fields. For example, if a collection of PDFs was all written by the same author, you may wish to create a custom form for this collection that has the author's name pre-populated, so that users ingesting into this collection will not need to re-enter this information. Using custom forms you can also specify which metadata elements you wish to use to describe your object, and create validation rules for particular fields, among other features.

- If you are a developer, or somebody looking to install the XML form builder, you will want to review the section on the [XML Form Builder](#) module, which discusses the installation and configuration of the module.
- If you are a user, then the following documentation assumes that you have some understanding of metadata schemas and XML, as well as Islandora specific concepts such as Content Models, and Collection Objects. The greater grounding you have in **XPath**, **XML Form Templates**, and **XML Schemas** (.xlds), the greater use you will be able to make of the form builder.
- Solution Packs are designed to come pre-packaged with suitable forms written in MODS. These forms can be copied, and edited or modified to suit your needs.
- Forms can be created based on any schema.

Before You Begin

Review and install the [XML Form Builder](#) module and its dependencies.

Metadata Schemas

Metadata schemas specify the names and properties of elements that can be used in an XML file that is based on that schema.

When developing an XML form in the XML Form Builder you'll need to reference the schema of the metadata format you are working with. Throughout this document we'll be using the OAI DC metadata schema as an example. The OAI DC XML format is the serialization of Simple Dublin Core metadata descriptions and we'll be using Dublin Core elements in this example. You can view/retrieve the schema from http://www.openarchives.org/OAI/2.0/oai_dc.xsd

Sample XML Record

It is helpful to have an example record on hand while developing the form. Ensure that it matches the version of the XML schema you are working with.

Sample OAI DC Record from a Fedora Repository

```

<oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="
http://purl.org/dc/elements/1.1/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.
openarchives.org/OAI/2.0/oai_dc/
[http://www.openarchives.org/OAI/2.0/oai_dc.xsd]">

<dc:title>Pioneer days & shanty ways</dc:title>
<dc:creator>Eldershaw, Edith V.</dc:creator>
<dc:subject>History</dc:subject>
<dc:subject>Social life and customs</dc:subject>
<dc:description>Edith V. Eldershaw.</dc:description>
<dc:description>Printed by Williams & Crue Ltd.; Summerside, P.E.I.</dc:description>
<dc:description>Contains "stories", poems, and photographs,</dc:description>
<dc:publisher>Eldershaw</dc:publisher>
\\

<dc:type>collection</dc:type>
<dc:type>ingested</dc:type>
<dc:format>electronic</dc:format>
<dc:identifier>ilives:257167</dc:identifier>
<dc:language>eng</dc:language>
<dc:coverage>Prince County (P.E.I.)</dc:coverage>
\\

<dc:coverage>Tignish (P.E.I.)</dc:coverage>
<dc:coverage>Prince Edward Island</dc:coverage>

</oai_dc:dc>

```

XML Editors

When developing a metadata form it can be useful to have an XML editor to test code in. Typically these editors can help you determine the XPath of an element, whether the output you are producing is valid, etc. XML editors would include [oXygen](#) (commercial), [XPontus](#) (opensource), and there are many others.

XML Form Builder

XML Form Builder is a Drupal module that integrates the creation of XML based forms into Islandora. Once a form has been built, it is associated with a content model. This tutorial will take you through the process of creating a form, associating it with a content model, and implementing it with a collection. Once it has been created you will be able to create and edit your metadata.

To use the XML Form Builder navigate to the module in your Islandora site: **Islandora > Form Builder** (admin/islandora/xmlform)

Form Builder Interface

When you start the module you are presented with a list of forms (those are the forms that come bundled with your Islandora install) and a series of options to perform.

Form Builder 							
Home » Administration » Islandora							
+ Create Form + Import Form							
TITLE	TYPE	OPERATIONS					
Audio MODS form	Built-in	Copy	View	Export	Associate		
Basic image MODS form	Built-in	Copy	View	Export	Associate		
Islandora Book MODS Form	Built-in	Copy	View	Export	Associate		
Large image MODS form	Built-in	Copy	View	Export	Associate		
Newspaper MODS form	Built-in	Copy	View	Export	Associate		
PDF MODS form	Built-in	Copy	View	Export	Associate		
Video MODS form	Built-in	Copy	View	Export	Associate		
Test Image Form	Custom	Copy	Edit	View	Export	Delete	Associate
test MODS	Custom	Copy	Edit	View	Export	Delete	Associate
TestForm	Custom	Copy	Edit	View	Export	Delete	Associate

Create Form: Select to begin the process of creating a metadata form from scratch or from an existing form definition file (an XML Form Builder form).

Copy: Copies an existing form, that you can then modify. This is probably be one of the most common methods you will use to create new forms.

Edit: Edits an existing form.

View: View an existing form. This option is useful when testing input. You can submit a form and see its XML output.

Export: Exports an existing form and allows you to save the form XML to your local computer.

Delete: Removes a custom form.

Associate: Links a form with a content model.

Creating a Form

The examples and screenshots below refer to an Islandora 6.x installation. The basic functions of the form builder are the same, although elements may look slightly different.

To start creating a form click "**Create Form.**"

In the Create Form dialogue enter a form name - for example we are creating a basic OAI DC form so a name like oai_dc_basic would be appropriate. If you have an existing XML Form Builder form you could upload the form definition. We'll be creating this OAI DC XML form from scratch, so we can click on "**Create**" without uploading a form definition.

Home > Administer > Content management > XML Form Builder > Create Form

Create Form

Form Name: *

Form Definition:

An optional XML form definition template.

The module should report that it successfully created a new form called oai_dc_basic.

Home > Administer > Content management > XML Form Builder > Edit Form

Edit Form

Successfully created form: oai_dc_basic.

Form Editor

Form Properties Save & Preview Save

Elements

Add Copy Paste Delete

- Form (form)

Preview

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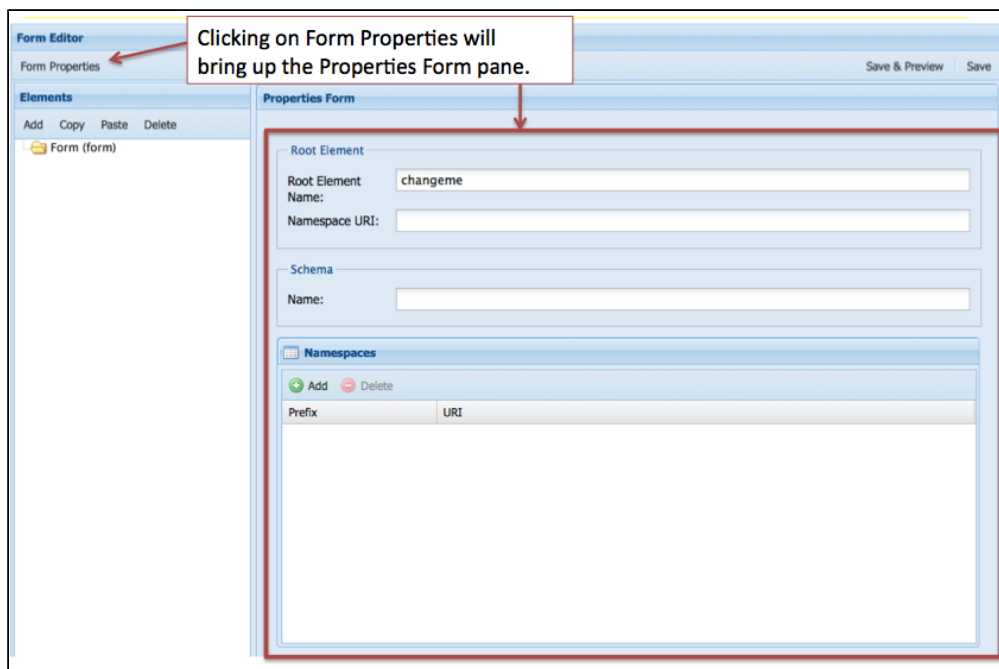
Digital Repository Create content Administer

Home > Administer > Content management > XML Form Builder > Preview Form

Preview Form

This is the main form building/editing interface for creating XML forms and it provides methods for adding form properties, form fields and a preview pane.

Setting Form Properties



When creating an XML form the first thing you need to set in the Form Editor is the Form Properties. This is where having an example of an OAI DC record would come in handy and would provide the information you need to fill in the Form Properties. Here is the part of the record that you'll use:

```
<oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
```

It provides information about the Root Element Name, the Namespace URI, the location of the Schema, as well as the various namespaces needed.

Save & Preview Save

Properties Form

Root Element

Root Element Name:

Namespace URI:

Schema

Name:

Namespaces

Add
Delete

Prefix	URI
oai_dc	http://www.openarchives.org/OAI/2.0/oai_dc/
xsi	http://www.w3.org/2001/XMLSchema-instance
dc	http://purl.org/dc/elements/1.1/

Click **"Save"** once you have the properties entered. Once the form properties have been saved you are ready to add fields to your form.

Adding form fields

Some schema specify that elements appear in a certain order (an order-based schema), that certain elements are required, that only certain elements are repeatable, or whether and how elements can be nested. Refer to your schema documentation and to any guidance it offers in the creation of records based on the schema. In the schema we are using in this tutorial, Simple Dublin Core, each of the fifteen elements is optional and may be repeated, but no nesting is allowed. We will create a simple form for this exercise that utilizes several Dublin Core elements. Let's create a table listing the element names, the form field labels, the types of form fields, the content of the elements, and whether they are repeatable. We'll use this information when adding fields to our form.

Element	Label	Type	Content	Repeatable
---------	-------	------	---------	------------

title	Title	textfield	The title of the work.	no
creator	Creator (s)	tags/tag	The creator(s) of the work.	yes
description	Description	textarea	A description of the work.	no
type	Type	select	A controlled list of terms	no
date	Date	datepicker	The date the work was issued or published.	no
subject	Subject (s)	tags/tag	The topic of the work.	yes
rights	Rights	textarea	Information about rights held in and over the resource.	no

Adding a textfield type form field - the dc:title element

We can use the information in our table to fill out the "**Element Form**" pane. We can start with the **title** element.

In this part of the form you can enter values for **Identifier**, **Type**, **Title**, **Description**, **Default Value**, and **Required**. These can be defined as follows:

Identifier: An ID for this form field. It is the Drupal form array key for this element. Typically you would just enter the name of the element you are describing.

Type: The form field type for this field (textfield, textarea, select, etc.)

Title: The label of the form field as it appears on your form. Typically you would just enter the name of the element you are describing.

Description: The description of the element that this Element Form is about.

Default Value: The value to be display or selected initially for this element if the form has not been submitted yet.

Required: Indicates whether or not the element is required. This automatically validates for empty fields, and flags inputs as required. Fields with a **Type** of "file" are not allowed to be required.

Form Properties

Save & Preview Save

Elements

Add Copy Paste Delete

- Root (form)
- title (textfield)

Element Form

Identifier: title

The name of the element.

Type: textfield

The type of element.

Title: Title

The label for the element that will appear on the form.

Description: This is the title.

The description of the element that appears below the entry box for the element on the form.

Default Value:

Required: ☒

Make the field required if desired. In this case we want every metadata record created to have a title.

You can specify a default value if desired.

The rest of the form deals with where each element is created, read, updated, and deleted in the XML tree. This is where it would be useful to understand how XML works and to have a basic understanding of XPath.

Reviewing our OAI DC XML sample record we can determine the location/context of the title element.

```
<oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/"
xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/
[http://www.openarchives.org/OAI/2.0/oai_dc.xsd]">
<dc:title>Pioneer days & shanty ways</dc:title>
```

The full XPath in this XML document for the dc:title element would be:

```
/oai_dc:dc/dc:title
```

where /oai_dc:dc is the parent element and dc:title is the child element. The **Create** dialogue is where we enter the information needed for creating an element in our form. We'll be entering information into the **Path Context**, **Path**, **Type**, and **Value** properties in our example. If you had an order-based schema, you would also fill in the **Schema** field. Here are some definitions for each of those properties:

Path Context: the context at which the XPath action will be executed.

- *document* - the XPath query is run from the root element of the document
- *parent* - the XPath query is run from the node created/read by its parent's form field
- *self* - only applies to Delete and Update actions and applies to the node selected by the Read action.

Path: An XPath to this element's parent object. This is used to determine where this element is inserted.

Schema: An XPath to the definition of this element's parent. The XPath is executed in the schema defined in this form's properties. This is used to determine the insert order for this element.

Type: The type of node that will be created. If XML is specified, an XML snippet is expected in the **Value** field.

Value: If the **Type** is either "element" or "attribute," the name of the element or attribute is expected here. If the **Type** is "XML," an XML snippet is expected in which %value% indicates where the value of the form field will be inserted.

Review the image below and think about how your other OAI DC elements will be created based on this pattern.

- **Create** action is about selecting the parent node where the new node will be created.

The image shows a 'Create' dialog box with the following fields and annotations:

- Create** (checked checkbox): An annotation states, "Checking the Create box opens up the Create dialog."
- Path Context:** A dropdown menu set to 'document'. An annotation states, "The path context is either **parent** or **document**. For the OAI DC form we will be using **document** as the path context."
- Path:** A text field containing '/oai_dc:dc'. An annotation states, "This is the path where the element will be create ... the parent of the element you are creating."
- Schema:** An empty text field.
- Type:** A dropdown menu set to 'element'. An annotation states, "This can be **element**, **attribute**, or **XML**. In this case we are creating an element. Alternately we could also create the element using XML, but a type of element makes sense here."
- Value:** A text field containing 'dc:title'. An annotation states, "Since we are creating an element, we enter the value of the element – dc:title. If we were creating the value using XML we could enter

<dc:title>%value%</dc:title>"

The rest of the form deals with where the element will be read, updated, and/or deleted from.

- **Read** action is about selecting the node that will be used to populate the form field.
- **Update** action is about updating the node that was used to populated the form field.
- **Delete** action is about deleting the node that the Read action selected.

Note: You can Update or Delete nodes other than the node which is Read - For example with `mods:name` ... where sub-elements are created with a form field and additional nodes are automatically created with XML code. We may want to delete/update the entire `mods:name` and its sub-elements.

The screenshot displays the XML Form Builder interface with three sections: Read, Update, and Delete. Each section has a checkbox and a dropdown for Path Context, and a text field for Path. Annotations with red arrows point to specific fields:

- Read Section:**
 - Path Context: `document` (Annotation: "The path context is either **parent** or **document**. For the OAI DC form we will be using **document** as the Read path context.")
 - Path: `/oai_dc:dc/dc:title` (Annotation: "This is the full path where the element will be read from.")
- Update Section:**
 - Path Context: `self` (Annotation: "For Update the path context options are **parent**, **document**, or **self**. In this case the path context for updating the element will be **self**.")
 - Path: `self::node()` (Annotation: "self::node() is the nodeset containing only the context node.")
- Delete Section:**
 - Path Context: `self` (Annotation: "We will use the same values for Delete as we did for Update.")
 - Path: `self::node()`

Adding the creator element - an element that may have multiple values

multiple selects

Just a note that the current version of the XML Form Builder does not currently allow multiple selects. Based on the information in this [pull request](#), users "can still use unallowed elements such as 'checkbox', 'checkboxes', 'date', 'file', 'managed_file', 'password_confirm', 'radio', 'radios', 'tableselect', 'vertical_tabs', 'weight', 'button', 'image_button', 'submit'. But the builder will no longer allow you to give XML CRUD actions to these elements, also the 'select' element doesn't allow XML CRUD combined with multiple."

Users still have the option to [create their own forms](#).

In some cases you will have multiple occurrences of an element, for example a digital object may have more than one creator (multiple authors) or may have many subjects that describe it. The Form Builder has several methods dealing with this use case. In our example OAI DC form we have decided that there could be multiple creators and the schema allows that. It is a two step process:

1. create an element with a type of **tags**,
2. nest another element in the tags type element that has a type of **tag**.

This image displays the first step of the creation of the creator element.

The screenshot shows the 'Form Properties' window with the 'Elements' panel on the left and the 'Element Form' panel on the right. The 'Elements' panel shows a tree structure: 'Root (form)' containing 'title (textfield)', 'creator (tags)', '0 (tag)', and 'Submit (submit)'. The 'creator (tags)' element is selected. The 'Element Form' panel shows the configuration for the 'creator' element. The 'Identifier' is 'creator'. The 'Type' is 'tags'. The 'Title' is 'Creator(s)'. The 'Description' is 'The creator(s) of the work.' The 'Default Value' is an empty text box. The 'Required' checkbox is unchecked. Below the 'Required' checkbox are four checkboxes: 'Create', 'Read', 'Update', and 'Delete', all of which are unchecked. Red arrows point from text boxes to the corresponding fields in the 'Element Form' panel. The text boxes contain the following descriptions: 'The name of the element.' (pointing to 'Identifier'), 'Select a type of tags. This element will hold a sub-element with a type of tag.' (pointing to 'Type'), 'The label for the element that will appear on the form.' (pointing to 'Title'), 'The description of the element that appears below the entry box for the element on the form.' (pointing to 'Description'), and 'None of these are required as we will set them in the tag 'child' element.' (pointing to the 'Create', 'Read', 'Update', and 'Delete' checkboxes).

The second step is to create a nested **tag** type element. The image below displays the values for the properties used for this element.

The screenshot shows the 'Element Form' interface with the following fields and annotations:

- Identifier:** 0. Annotation: "For these type of elements, the practice is to use 0 as the identifier."
- Type:** tag. Annotation: "Select the **tag** type of element."
- Title:** (empty field)
- Description:** (empty text area)
- Default Value:** (empty field)
- Required:** ☐
- Create:** ☒
 - Path Context:** document. Annotation: "The same pattern is used for Create as was used in the dc:title example."
 - Path:** /oai_dc:dc
 - Schema:** (empty field)
 - Type:** element
 - Value:** dc:creator
- Read:** ☒
 - Path Context:** document. Annotation: "Read, Update, and Delete are set up in the same manner as the previous dc:title example."
 - Path:** /oai_dc:dc/dc:creator

Adding a textarea type form field - the **dc:description** element

The "textarea type" of form field should be used for elements that require a description or that contain a large amount of text.

Element Form

Identifier: Enter an identifier.

Common Form Controls Advanced Form Controls M

Type: Select the **textarea** type of element.

Title:

Description:

Default Value:

Required: ☐

☒ Create

Path Context:

Path:

Schema:

Type:

Value:

☒ Read

Path Context:

Path:

The same pattern is used for Create as was used in the dc:title example.

Read, Update, and Delete are set up in the same manner as the previous dc:title example.

Adding a select type form field - the **dc:type** element

In many cases you will want to provide the user with a list of controlled terms and the select form field type is used. For the type element our controlled list of terms is based on the DCMI Type Vocabulary. The Vocabulary *provides a general, cross-domain list of approved terms that may be used as values for the Resource Type element to identify the genre of a resource.*

DCMI Type Vocabulary

Term	Description
Collection	An aggregation of resources.
Dataset	Data encoded in a defined structure. Examples include lists, tables, and databases. A dataset may be useful for direct machine processing.
Event	A non-persistent, time-based occurrence. Examples include an exhibition, webcast, conference, workshop, open day, performance, battle, trial, wedding, tea party, conflagration.
Image	A visual representation other than text. Examples include images and photographs of physical objects, paintings, prints, drawings, other images and graphics, animations and moving pictures, film, diagrams, maps, musical notation.
Interactive Resource	A resource requiring interaction from the user to be understood, executed, or experienced. Examples include forms on Web pages, applets, multimedia learning objects, chat services, or virtual reality environments.
Moving Image	A series of visual representations imparting an impression of motion when shown in succession. Examples include animations, movies, television programs, videos, zoetopes, or visual output from a simulation.

Physical Object	An inanimate, three-dimensional object or substance. Note that digital representations of, or surrogates for, these objects should use Image, Text or one of the other types.
Service	A system that provides one or more functions. Examples include a photocopying service, a banking service, an authentication service, interlibrary loans, a Z39.50 or Web server.
Software	A computer program in source or compiled form.
Sound	A resource primarily intended to be heard. Examples include a music playback file format, an audio compact disc, and recorded speech or sounds.
Still Image	A static visual representation. Examples include paintings, drawings, graphic designs, plans and maps. Recommended best practice is to assign the type Text to images of textual materials.
Text	A resource consisting primarily of words for reading. Examples include books, letters, dissertations, poems, newspapers, articles, archives of mailing lists. Note that facsimiles or images of texts are still of the genre Text.

Source

When adding a select form field in the Form Builder there are two steps:

1. Add the information about the element you are creating
2. Add the terms that will display in the select list for users

1. When adding information about the element we will use the same method that we have used previously.

Element Form

Identifier: Enter an identifier.

Common Form Controls **Advanced Form Controls** **More Advanced Controls**

Type: Select the **select** type of form element.

Title:

Description:

Default Value:

Required: ☐

☒ Create

Path Context:

Path:

Schema:

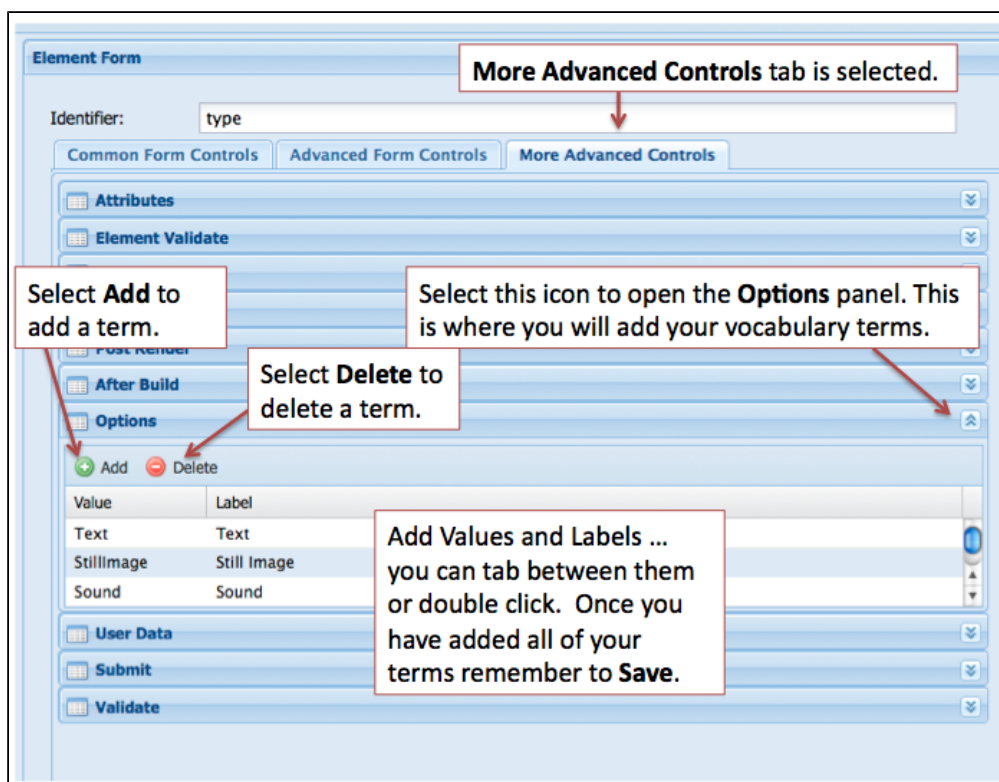
Type:

Value:

The same pattern is used for Create as was used in the dc:title example.

Once all the necessary properties have been filled out, **Save** your changes and then select the **More Advanced Controls** to add the terms that will appear in your select dropdown menu.

2. To add terms to your select form field, click on the "More Advanced Controls" tab in the "Element Form" pane. Review the image below and enter your terms in the Options panel.



Adding a datepicker type form field - the `dc:date` element

For this example we are using the datepicker type of form field. You will want to review your existing metadata as another type of form field may be more appropriate.

Element Form

Identifier: Enter an identifier.

Common Form Controls Advanced Form Controls More Advanced (

Type: Select the **datepicker** type of element.

Title:

Description:

Default Value:

Required: ☐

☒ Create

Path Context:

Path:

Schema:

Type:

Value:

The same pattern is used for Create as was used in the dc:title example.

☒ Read

Path Context:

Path:

Read, Update, and Delete are set up in the same manner as the previous dc:title example.

The remaining two elements for our sample OAI DC XML form, `dc:subject` (tags, tag) and `dc:rights` (textarea), can be built in the same manner as fields of a similar type that we have already created.

Adding a file upload type form field - pdf file uploader

One additional element that can be added for convenience is a file upload type form field. This will allow you to browse for a PDF document on your local machine as part of the Islandora ingest process. The image below illustrates what properties need to be filled in.

Note: the Identifier for this form field type **must** be **ingest-file-location**.

Element Form

Identifier:

Common Form Controls **Advanced Form Controls** **More Advanced Controls**

Type:

Title:

Description:

Default Value:

Required: ☐

☐ Create

☐ Read

☐ Update

☐ Delete

When creating a file upload form field, the identifier must be ingest-file-location.

Select the **file** type of element.

This isn't a element that will appear in our XML, so we don't need any of these actions.

Edit Form

Form Editor

Form Properties

Save & Preview Save

Elements

Add Copy Paste Delete

- Root (form)
 - ingest-file-location (file)
 - title (textfield)
 - creator (tags)
 - 0 (tag)
 - description (textarea)
 - type (select)
 - date (datepicker)
 - subject (tags)
 - 0 (tag)
 - rights (textarea)
 - Submit (submit)

Preview

Preview Form

Browse for your PDF.

Title: *

This is the title.

Creator(s)

The creator(s) of the work.

Description:

We've created all of the form fields that were included in this example.

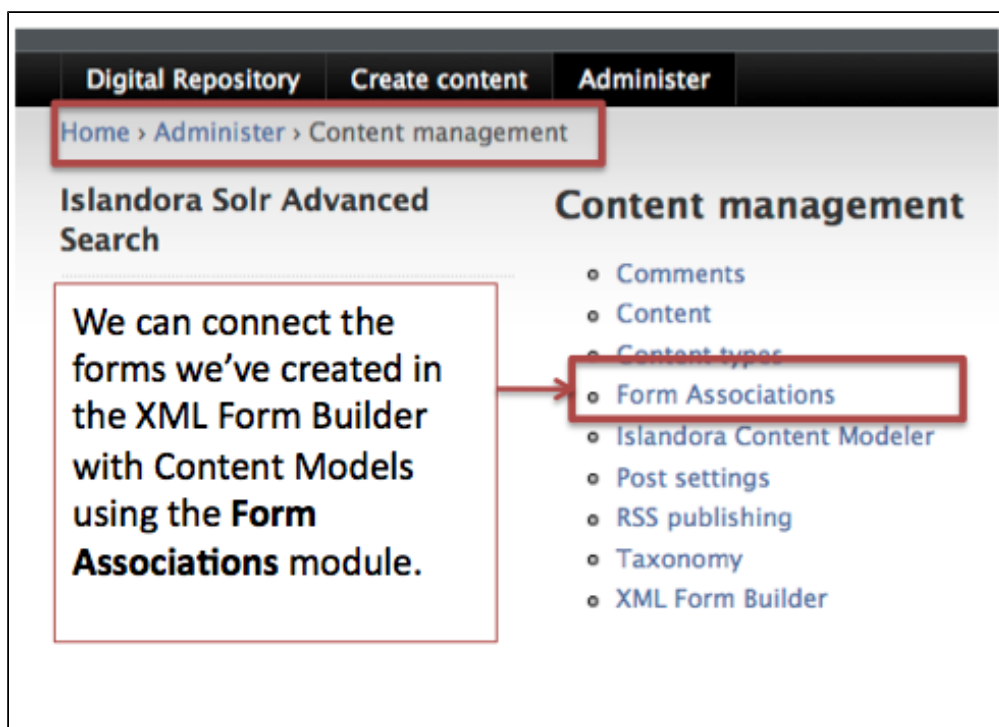
Here's the preview version of the form with our fields displayed.

Form Associations Module

Connecting the Form to a Content Model

Once you've completed and tested the form you've created in the XML Form Builder module, you can connect that form to an existing content model using the Form Associations module. You can navigate to the module using this path:

Administer > Content management > Form Associations



In this example we will associate the form we created - **oai_dc_basic** - with the **islandora:sp_strict_pdf** content model. Review the image below to fill out the Form Associations dialog.

Form Associations Dialog

Form Associations

Content Model Datastream ID Title Field Form Transform Has Template Remove

Add Association

Content Model: *

islandora:sp_strict_pdf

Enter the PID of the Content Model you are associating your form with.

The content model to associate with a form.

If the content model has no descendants it will not show up in a

Metadata Datastream ID: *

DESCMD

Select the Datastream ID that the form will create on ingest. In our example we are creating a DC metadata datastream.

The datastream ID of where the objects metadata is stored.

Form Name:

oai_dc_basic

Select the form you created with the XML Form Builder.

The name of the form to associate with the content model.

Title Field: *

['title']

Select the form field that holds the title information.

The form field that you want to use for the objects label.

XSL Transform:

dc_no_transform.xsl

Select the file that transforms your metadata schema to DC. Since our form creates DC, we can select the dc_no_transform.xsl file.

A xsl transform for setting the Fedora Object's Dublin Core me

Upload Template Document:

Browse...

A sample metadata file used to prepopulate the form on ingest.

Add Association

Click on Add Association.

Navigating to a Collection

Once the association has been successfully created, you can try ingesting new objects into a collection that has the [islandora:sp_strict_pdf](#) content model associated with it. Alternatively, access the Islandora demo VM which has a PDF collection associated with the [islandora:sp_strict_pdf](#) content model. Navigate to the PDF collection using the image as a guide and try creating new PDF objects there.

The screenshot shows the Islandora Solr Advanced Search interface. At the top, there is a navigation bar with three tabs: "Digital Repository" (highlighted with a red box), "Create content", and "Administer". Below the navigation bar, the breadcrumb trail reads "Home > Digital repository > Digital Repository". The main heading is "Islandora Solr Advanced Search". On the left side, there are three search input fields, each with a "Title" label and a dropdown arrow, followed by "and" connectors and a "search" button at the bottom. On the right side, there are three buttons: "View", "Add", and "Object Details". A red box highlights the "Add" button, and a red arrow points from a text box to it. The text box contains the instruction: "Select **Digital Repository**, then the **Basic PDFs** collection." Below the buttons, there are four collection thumbnails: "Basic PDFs" (highlighted with a red box), "Basic Images", "Newspapers Collection", and "Specimens".

Digital Repository Create content Administer

Home > Digital repository > Digital Repository

Islandora Solr Advanced Search

Title [dropdown] [input]
and [dropdown]
Title [dropdown] [input]
and [dropdown]
Title [dropdown] [input]
search

View Add Object Details

Select **Digital Repository**, then the **Basic PDFs** collection.

Installing, Configuring and Using
islandora
The Robust Open-Source Digital Asset Management System
Basic PDFs

Basic Images

THE DAILY GUARDIAN
Newspapers Collection

Specimens

Once in the collection (you can tell where you are by the breadcrumb), select the Add tab to add a new PDF to the collection.

Adding a PDF to the Collection

Digital RepositoryCreate contentAdminister

Home > Digital repository > Basic PDFs > Digital Repository

Digital Repository

ViewAddObject

Select Add to ingest a new item into the collection.

Evergreen 1.8 Documentation
Full Version

Evergreen 1.8 Documentation
Full Version

Documentation Index Page

Installing, Configuring
and Using

islandora™

The Robust
Open-Source
Digital Asset
Management System

Evergreen Documentation

Islandora Manual

Objects already in the Basic PDFs collection.

You will be presented with a dialog requesting two pieces of information: the content model

and the form to use for ingest.

Selecting the Associated Form

Home > Digital repository > Islandora PDF Demo Collection > Digital Repository

Digital Repository

View Add Object Details

Ingest digital object into *islandora:pdf_collection* Step #1

Content models available:

ADD PDF

Content models define datastream composition, relationships between this and other conte
Additional information may be found [here](#).

Select form:

oai_dc_basic: (DESCMD)

Select the form to populate the metadata of the new object.

Next

We'll be adding a PDF.

Select the oai_dc_basic form.

Select Next to move on to the form.

Entering Metadata

You will be presented with the form that we created during this tutorial. You'll need to fill it in. Once you've completed your data entry, submit the form.

Home > Digital repository > Connecting Research Data and Indigenous Communities > Digital Repository

Digital Repository

Description Read Online Object Details

View Edit

Select Edit to edit your metadata.



View Document

MetaData

title	Connecting Research Data and Indigenous Communities
creator	Kirsten Thorpe
creator	Elizabeth Mulhollann
subject	Systems and Information Theory
subject	Information Systems
description	In this poster, we propose to demonstrate the workflow and program of consultation developed by the Australian Research Data Archive (ATSIDA) to support the digital return of research data to Indigenous Australian communities for preservation and reuse in both the research community and by the general public.
date	06/13/2011
type	Text
identifier	islandora:21
rights	Rights held by the authors. Contact elizabeth.mulhollann@uts.edu.au for permission to reuse.

Digital Repository

Description

Read Online

Object Details

View | Edit |

Browse for your PDF.

Title: *

This is the title.

Creator(s)

The creator(s) of the work.

Description:

The description of the work.

The same form used to create, can also be used to edit the metadata.