

Module: Metadata Input Customisation

Module overview:

This module initially looks at the submission process in further detail, specifically input-forms.xml. It details what the input-forms.xml file is and how it can be used to customize the DSpace submission process. The module will conclude with a practical on a simple modification to the DSpace submission process.

This module builds on topics covered in modules 'Repository Structure' and 'Introduction to Items'. It is advised that you have completed these modules before continuing with this module.

Module objectives:

By the end of this module you will:

1. Understand which part of the submission process can be customised
2. Understand about input-forms.xml specifically:
 - a. Field Definitions
 - b. Field Types
3. Have modified the DSpace submission process

Note

For the practical exercise, please refer to your sheet 'Local instructions' for details of the following:

- How to launch a terminal window and a web browser
- What the path to [dspace] is
- How to restart Tomcat
- What the URL of your DSpace installation is

The Submission Process



The Submission Process

- In module 'Introduction to Items' an item was submitted using the default submission process
- This submission process can be customised allowing:
 - Adding additional metadata to be collected about an item
 - Individual collections to have unique metadata for their items

A screenshot of the DSpace submission form titled 'Submit: Describe this Item'. The form contains several input fields for metadata: 'Authors' (with a sub-field for 'Last name' and 'First name(s)'), 'Title', 'Series/Report No.' (with sub-fields for 'Series Name' and 'Report or Paper No.'), 'Identifiers', and 'Language'. Each field has an 'Add More' button next to it. At the bottom, there are 'Previous', 'Next', and 'Cancel/Save' buttons.

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Input-forms.xml



Input-forms.xml

- The forms used during a submission of an item via the UI are created based on
[dspace]/config/input-forms.xml
- Detailed information can be found in
[dspace]/docs/submission.html
- The input-forms.xml consists of the top level element **<input-forms>** which contains 3 elements:
 - **<form-map>** Mapping defined forms to collections
 - **<form-definitions>** Definition of single forms
 - **<form-value-pairs>** Definition of selection lists



Sub heading

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Form Map



Form Map

- The form-map maps collection handles to forms
- Each <form-map></form-map> has 2 attributes:
 - collection-handle="collectionHandle" ("default" if not selected)
 - form-name="formName" (e.g. <form name="myForm">)

```
<input-forms>
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
  <name-map collection-handle="110" form-name="one" />
</form-map>
</input-forms>
```

- Collection 123456789/110 has a form called **'one'** defined

[Edit Collection 123456789/110](#)

[Delete this Collection](#)

Name: Modern Languages

Short Description: Modern Languages



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Collection 123456789/110 has a form called **'one'** defined



Form Defenitions



Form Definitions

- The form-definitions map lays out the detailed definition of all the submission forms which contain the metadata field entries
- Each separate form set has a unique name as an attribute. This name matches one of the names in the form-map
- A form called “**traditional**” has been defined in this form definition

```
<input-forms>
  <-- Form Set Definitions-->
  <form-definitions>
    <form name="traditional">
      ...
    </form>
  </form-definitions>
</input forms>
```



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- A form called “**traditional**” has been defined in this form definition



Form Definitions



Form Definitions

- A form is created with `<form></form>`
- Each form has the attribute name e.g. `<form name="myForm">`
- This name is used to map a form to a collection.
- A form may consist of up to 3 elements:
 - `<page></page>`
 - `<field></field>`
 - `<page number="1">`



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Form Definitions - Fields



Form Definitions - Fields

- A <field> consists of:

<field> Name	Mandatory?	Description
<dc-schema></dc-schema>	True	metadata schema name
<dc-element></dc-element>	True	metadata element
<dc-qualifier></dc-qualifier>		metadata qualifier
<repeatable></repeatable>		Values: true or false Marks a field as repeatable.
<label ></label>	True	Label used in UI
<input-type ></input-type>	True	Type of input field
<hint></hint>	True	Hint used in UI
<required></required>		If completed, the field is marked as mandatory.

```
<field>
  <dc-schema>dc</dc-schema>
  <dc-element>contributor</dc-element>
  <dc-qualifier>author</dc-qualifier>
  <repeatable>true</repeatable>
  <label>One: Authors</label>
    <input-type>name</input-type>
  <hint>Enter the names of the authors of this item below.</hint>
  <required></required>
</field>
```



Form Definitions - Fields



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Form Definitions - Fields

- The input-type:

	Input-type	Description
1	onebox	Single boxes for short text
2	twobox	A pair of single boxes
3	textarea	A text area
4	name	A pair of text boxes for personal names
5	date	At least a year must be given
6	dropdown	A selection list
7	qualdrop-value	A selection list combined with a single text box

1. Title Enter the main title of the item.

2. Series/Report No. Series Name Report or Paper No.

3. Abstract Enter the abstract of the item below.

4. Authors Last name
e.g. Smith First name(s) + "Jr"
e.g. Donald Jr

5. Date Issued Month: (No Month) Day: Year:

6. Language N/A
 N/A
 English (United States)
 English
 Spanish



Form Defenitions - Fields



Form Value Pairs



Form Value Pairs

- Form-value-pairs populate dropdown and qualdrop-value lists.
- The form-value-pairs element holds child elements named 'value-pairs'
- A form value pair has two attributes:
 - value-pairs-name
 - dc-term

```
</input-forms>
<-- Name/Value Pairs used within Multiple Choice Widgets -->
<form-value-pairs>
  <value-pairs value-pairs-name="common_identifiers" dc-term="identifier">
    <pair>
      <displayed-value>ISSN</displayed-value>
      <stored-value>issn</stored-value>
    </pair>
    .....
  </form-value-pairs>
</input-forms>
```



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Practical: Metadata Customisation

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1. Create a new collection called 'Metadata' as specified in the module 'Repository Structure'

Edit Collection 123456789/422

[Delete this Collection...](#)

Name:

Short Description

Introductory text (HTML):

2. Once created, navigate into the collection, click edit on the 'admin tools' menu and note its handle id i.e. 123456789/422
3. Open a terminal window
4. Navigate to [dspace]/config
5. Open the input-forms.xml using gedit: type 'gedit input-forms.xml'
6. Locate the lines:

```
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
</form-map>
```

7. Add an additional line setting:
 - collection-handle="<Your collection ID>"
 - form-name="one"

```
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
  <name-map collection-handle="123456789/422" form-name="one" />
</form-map>
```

8. This forces any submission into this collection to use a different input form
9. Restart Tomcat
10. Submit an item to your newly created collection as specified in the module 'Introduction to Items'
11. The submission form input should now modified

Enter the names of the authors of this item below.

Last name e.g. <i>Smith</i>	First name(s) + "Jr" e.g. <i>Donald Jr</i>
One: Authors <input type="text"/>	<input type="text"/>
Add More	

[< Previous](#)
[Next >](#)
[Cancel/Save](#)

Credits

- These notes have been produced by:
 - Stuart Lewis & Chris Yates
 - Repository Support Project
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