

Controlled Vocabularies and Authority Control in DSpace 7

This page is outdated / obsolete

This page represented a temporary discussion area around issues found in how these features were implemented in an early version of DSpace 7 (pre-7.0).

A refactoring of these features has been designed/moved forward into this REST Contract PR: <https://github.com/DSpace/Rest7Contract/pull/128>. This is planned to be implemented by DSpace 7.0 beta 3

Therefore, this page is now OBSOLETE and the REST CONTRACT should be considered the latest version.

 Draft notes (not complete or finalized). Based loosely on conversation in <https://github.com/DSpace/DSpace/pull/2743>

How this worked in DSpace 6

Three concepts:

- **Authority control values** *tend to be external*. It was originally designed to search external sources like Library of Congress or SHERPA Romeo
- **Controlled vocabularies** *tend to be internal*. They exist in a configuration subfolder with a specific XML schema: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/controlled-vocabularies/
 - Samples include SRSC: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/controlled-vocabularies/srsc.xml
- **Value-Pairs** are a "controlled vocabulary" like concept that exist only in the submission configuration (input-forms.xml): https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/input-forms.xml#L236
 - Samples include "common_identifiers" (URI, ISSN, ISBN, etc), "common_types" (Article, Book, Image, Video), "common_iso_languages" (en, es, de, fr, etc)

Default settings:

1. Value-pairs were *always enabled* and act like a simply form of controlled vocabulary. They were only used to populate dropdowns in submission.
2. Additional controlled vocabularies were *disabled by default*. Though they could be enabled for JSPUI only: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/dspace.cfg#L1809
3. Authority control was also *disabled by default*, though a variety of plugins were available out-of-the box for Library of Congress, SHERPA Romeo and ORCID: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/dspace.cfg#L1432-L1437
 - a. It was also possible to optionally configure Authority Control to **use value-pairs and/or controlled vocabularies**. See https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace/config/dspace.cfg#L1462-L1466
 - i. This is disabled by default. When enabled, both value-pairs and controlled vocabularies could be used as authority control on a specific field(s).

How this is working in DSpace 7.0 beta2

1. (*Same/Similar behavior*) Value-pairs are still always enabled in the new submission-forms.xml: <https://github.com/DSpace/DSpace/blob/master/dspace/config/submission-forms.xml#L1130>
2. (*Different behavior*) Additional controlled vocabularies are **enabled by default**, as they are configured to be used in Authority Control: <https://github.com/DSpace/DSpace/blob/master/dspace/config/dspace.cfg#L1483>
3. (*Different behavior*) Authority control is **enabled by default**, and defaults it using **both value-pairs and controlled vocabularies**: <https://github.com/DSpace/DSpace/blob/master/dspace/config/dspace.cfg#L1481-L1483>
4. (*Different behavior*) The Submission configuration/UI now **only uses Authority Control for dropdowns**, as both value-pairs and controlled vocabularies are authority control enabled. See early notes at [Configuration changes in the submission process](#)
 - a. (*Same/Similar behavior*) Controlled Vocabularies can be associated with a field via the <vocabulary> tag in submission-forms.xml: <https://github.com/DSpace/DSpace/blob/master/dspace/config/submission-forms.xml#L202>
 - b. (*Same/Similar behavior*) Value-pairs can be associated with a field via the <input-type value-pairs-name="name">dropdown</input-type> tag. For example: <https://github.com/DSpace/DSpace/blob/master/dspace/config/submission-forms.xml#L180>

These behaviors primarily changed in <https://github.com/DSpace/DSpace/pull/1852/>

Side effects of new behavior in 7.0 beta2

1. Because all value-pairs and controlled vocabulary are authority controlled by default, all metadata fields generated from either now have "authority IDs". This makes them look/act different from DSpace 6 metadata.
 - a. For value-pairs, the authority ID is the stored value. So, e.g. "Book" has an authority ID of "Book". See examples in REST Contract: <https://github.com/DSpace/Rest7Contract/blob/master/authorities.md#authority-entry-values>
 - b. Other values in the same field don't have an authority ID, e.g. values from an upgraded DSpace 6 or values from another collection which uses the same field as plain text, or values submitted through SWORD, ...
 - c. *This will have a side effect for some other tools.*
 - i. For example, [Batch Metadata Editing](#) separates authorities from values via a "::.". So, a dc.type value of "Book" will now appear as "Book::Book" in a CSV exported spreadsheet (whereas it used to appear just as "Book")
 - ii. Discovery has always treated authority values separate in both search and browse. Values with an authority ID are displayed separate from values without an authority ID

- iii. OAI-PMH uses XML following the XOAI schema. This XML is run through XSLT to generate the XML to provide for different metadata formats in OAI-PMH. Values coming from authority control are provided different in XOAI than "normal" metadata values. Either a lot of institutions have to change their XSLTs or we do change how XOAI XML deals with authority control.
- 2. The Authority ID doesn't add any additional information to the field. In fact, it's **not a unique identifier**. As a basic example, both the value-pairs for "common_identifiers" and "common_types" include an "Other" option. So a value linking to Authority ID "Other" cannot be mapped back to its source without finding the "submission-form.xml" which was used to create it (and that configuration may have been modified since then).
 - a. This behavior was identical in DSpace 6, if you used value-pairs as Authority Control. But, as noted above, this feature was disabled by default.