

Islandora Solr

Overview

The Islandora Solr module provides a way to configure the Islandora search functions, the search results display, and the display of metadata on object pages.

Islandora Solr and the Islandora search results search the metadata, full text, and OCR of objects in the Fedora Commons repository. In a default Islandora installation, the Islandora search does not search Drupal nodes or other Drupal-only content.

Tutorials

In order to use the **Islandora Solr** module, **Solr** and **GSearch** must already be installed and working. See the tutorials below for instructions.

- [Search & Discovery in Islandora](#)
- [milestone 6 - Installing Solr and GSearch](#)
- [Customizing GSearch and Solr](#)
- [Upgrading From Older Versions of Solr and GSearch](#)

Dependencies

- [Islandora](#)
- [Tuque](#)
- [Apache Solr](#) (4.2 or higher)

Installation

Install the Islandora Solr module as usual, see [this](#) for further information.


Configuration

Configuration settings for the Islandora Solr Module are in Administration > Islandora > Solr index (admin/islandora/search/islandora_solr).

1. Set the Solr URL to `http://path.to.your.site:8080/solr` (use "localhost:8080" unless Solr is installed on a separate server).
2. Leave the Request handler as "Let Solr decide" unless you have defined a different request handler in the solrconfig.xml file.
3. Click "Save Solr configuration."

Solr URL *

The URL of the Solr installation. Defaults to localhost:8080/solr. Port number (e.g. ":8080") is required.

 Successfully connected to Solr server at localhost:8080/solr. (0.02 ms)

Request handler

Request handlers, as defined by [solrconfig.xml](#).

☐ Force update of Solr index after an object is deleted
If checked, deleting objects will also force their removal from the Solr index.
Note: When active, UI consistency will be increased on any pages using Solr queries for display. This setting is not appropriate for every installation (e.g., on sites with a large volume of Solr commits that hit execution limits, or where the Solr index is not directly writable from Drupal).

Save Solr configuration

Reset to defaults

After you have successfully set up the Solr URL on the **Solr Index** tab, you can configure search results and metadata display on these tabs:

1. **Facet pages** - Configure alphabetical browsing pages based on indexed fields in Solr (for example, an alphabetical browse names name or topics). Requires the **Islandora Solr Facet Pages** module.
For more on this see [Islandora Solr Facet Pages](#).

2. **RSS settings** - Configure the fields to be displayed in the RSS feed of search results.
For more on this see [Islandora Solr RSS Settings](#)
3. **Solr Breadcrumbs** - Configure how breadcrumbs are generated.
For more on breadcrumbs see the section below.
4. **Solr settings** - Configure the Islandora search results display profile(s), including which fields to be displayed in the search results, which fields to sort on and serve as facets, query settings, required fields, and the Advanced Search block.
For more on this see [Islandora Solr Settings](#).
5. **Table profile settings** - Configure the "Table Display Profile" (if selected in "Solr settings").
6. **Metadata display** - Configure which metadata fields should be displayed on Islandora object pages for each solution pack when the "Details" option is expanded. Requires the Islandora Solr Metadata module.
For more on this see [Islandora Solr Metadata](#).

Solr Breadcrumbs

To enable breadcrumbs, browse to Administration » Islandora » Configuration and select

- "Render Drupal breadcrumbs"
- "Islandora Solr" under "Breadcrumb generation," and
- "Use iTQL for particular queries."

The last option only works when Islandora is installed with Mulgara as triple store.

☒ Render Drupal breadcrumbs

Larger sites may experience a notable performance improvement when disabled due to how breadcrumbs are constructed.

Breadcrumb generation

☐ Resource Index - Default

☒ Islandora Solr

How breadcrumbs for Islandora objects are generated for display.

☒ Use iTQL for particular queries

Sparql is the preferred language for querying the resource index; however, some features in the implementation of Sparql in Mulgara may not work properly. If you are using the default triple store with Fedora this should be left on to maintain legacy behaviour.

FAQ

Q. Why are some dates not rendered correctly?

A. On 32 bit systems, the PHP function `strtotime()` has a limited range. Typically from Fri, 13 Dec 1901 20:45:54 UTC to Tue, 19 Jan 2038 03:14:07 UTC. For more information see [this PHP documentation](#).

Q. Why can't I connect to Solr via https?

A. The Apache Solr PHP Client that we use does not support https connections to Solr. [ISLANDORA-646](#) seeks to remedy this but it is still an unresolved issue.

Q. Why do I get no results for a search for a PID in **Advanced Search**?

A. With earlier versions of Solr you had to escape the colon in searches for PIDs, but Islandora now supports Solr 4.10 and recommends config files that enable searching full PIDs.