Add Repository Test

Before you add a repository to your account it is necessary to run some preliminary tests to ensure that repository and the Gateway are compatible. In many cases, the repository will pass all of the tests, and you will be allowed to Add the repository to your Gateway account. In some cases, the repository will fail some non-essential tests, and you will be allowed to Add the repository to your Gateway account. Some repositories will fail tests that are critical to Gateway compatibility, so you will need to troubleshoot the issue and try the test again after the issue is resolved.

For each test performed, a status will be displayed:

SUCCESS – The test succeeded.

FAILED – The test failed.

SKIPPED – The test was skipped, due to a previous test failing, which the current test depends on.

UNSUPPORTED – The repository does not support the current OAI feature being tested (e.g. ListSets).

TIMEOUT – The test took too long, which typically means that the repository is running very slowly and will likely not function well with the GATEWAY. It is possibly only a temporary issue, in which case the repository can be registered at a later time.

NO_DATA – The repository response for the current test was empty. Currently, this status only applies to the situation when ListSets returns an empty list.

Trouble-shooting Tips

Testing URL Uniqueness
- The OAI-PMH Base URL you entered has already been registered with the Gateway, possibly in another account. The Gateway only allows a repository to be registered and associated with one account.

Testing URL Validity
- The OAI-PMH Base URL you entered is not a valid URL.
- A valid URL typically starts with http:// or https:// and includes a domain and possibly a port. (e.g. http://www.ohiolink.edu/etd/oai.php)

Testing Availability
- The OAI-PMH Base URL is currently inaccessible. It is possible that the repository is currently down or that it is simply not reachable by the Gateway.
- Double-check the spelling of the URL and make sure it has not been mistyped or pasted incorrectly.

Testing OAI Support
- The Gateway uses the OAI-PMH **Identify** verb to test basic functionality. Identify is a required verb in the OAI-PMH protocol, so when it fails, it typically means the Gateway will not be able to support the repository.
- It is possible that the OAI-PMH repository is responding with an unexpected result, which may mean that the **Identify** response does not conform to the OAI-PMH protocol, or that the response contains invalid XML.

Testing DC Format Support

- All repositories are required to support at least one metadata format, OAI DC. The repository must respond with an entry containing the prefix "oai_dc" when the OAI-PMH **ListMetadataFormats** verb is used; otherwise, this test will fail.
- It is possible that the OAI server is responding with an unexpected result, which may mean that its response does not conform to the OAI-PMH protocol, or the response contains invalid XML.

Testing OCLC DC Format Support
- The Gateway includes some advanced features for repositories that support the OCLC DC metadata format. It is **not** necessary for a repository to pass this test to proceed with registration.
- A status of **UNSUPPORTED** will result if the repository does not support OCLC DC, which is not considered a failure.
- It is possible that the OAI server is responding with an unexpected result, which may mean that its response does not conform to the OAI-PMH protocol, or the response contains invalid XML.

Testing List Sets
- The Gateway makes use of **ListSets** to display a list of collections to the user. A repository that does not support sets is still compatible with the Gateway. When **ListSets** is not supported by a repository the Gateway treats the entire repository as a single set.
- If the repository reports that it does not support sets, then the Gateway will record this as **UNSUPPORTED** in the test results. The user will be allowed to add the repository with **UNSUPPORTED** displayed.
- If the repository does not return any set names in its response, then the Gateway will record **NO_DATA** in the test results. The user will be allowed to add the repository with **NO DATA** displayed.
- If the repository responds with a mal-formed OAI-PMH **ListSets** response, or a response that contains invalid XML, then the Gateway will display **FAILED** in the test results. The user will be allowed to add the repository with **FAILED** displayed.
- You will be allowed to **Add** your repository even if the test result shows **UNSUPPORTED**, **NO DATA**, or **FAILED**. In this case your repository will be treated as a single set named **Entire Repository**.

Testing Set Uniqueness
- If this test fails, it means that the repository returned a proper OAI ListSets response containing set information, but one or more of the **setSpec** identifiers are duplicated. The Gateway cannot work properly with duplicate **setSpec** identifiers because those are used to differentiate the collections in the repository. The user will not be allowed to add the repository with duplicate **setSpec** identifiers.

Testing List Records
- The Gateway's primary mechanism for getting metadata from the repository is by using **ListRecords**. The repository must support ListRecords in order to proceed with registration. If ListRecords is not support or the response from the repository is not readable, then the test will fail.
- It is possible that the OAI server is responding with an unexpected result, which may mean that its response does not conform to the OAI-PMH protocol, or the response contains invalid XML.

Testing Actionable URL Identifier
- The Gateway is expecting a URL in at least one instance of DC Identifier in each record it harvests. Without an **Actionable URL Identifier** end-users of WorldCat cannot use the digital resource described in the record being harvested.
- Passing this test is not required to proceed with adding the repository since some repositories share the actionable URL identifier in other metadata fields.

- The Gateway has tools for mapping other metadata fields into the Actionable URL Identifier field. When you edit the metadata map for this collection select **More → Show Unmapped Fields**, then select the blue box labeled View Online to map the correct source metadata field.