

# SparqlIndexer

The SparqlIndexer listens to the repository generated JMS events and index records to the triplestore like [Fuseki](#), [Sesame](#) etc. It implements the [org.fcrepo.indexer.Indexer](#) interface for the indexing functionalities, which consists of the methods to handle new/updated records and deleted records.

Once the SparqlIndexer configured to index the records, we can use the triplestore to perform external SPARQL searchings with the [SPARQL Recipes](#).

The triplestore needs to be started before running the message consumer web app. Please follow the instructions to [setup](#) a triplestore.

## Configuration

The indexer is configured using Spring, which can be done through the Java bean setter methods. Here is a sample configuration fragment showing how to configure and use the SparqlIndexer:

```
<!-- sparql-update indexer -->
<bean id="sparqlUpdate" class="org.fcrepo.indexer.sparql.SparqlIndexer">
  <!-- fuseki -->
  <property name="queryBase" value="http://${fuseki.host:localhost}:${fuseki.port:3030}/test/query"/>
  <property name="updateBase" value="http://${fuseki.host:localhost}:${fuseki.port:3030}/test/update"/>
  <property name="formUpdates">
    <value type="java.lang.Boolean">false</value>
  </property>
  <!-- sesame -->
  <!--
  <property name="queryBase" value="http://${sesame.host:localhost}:${sesame.port:8081}/openrdf-sesame
/repositories/test"/>
  <property name="updateBase" value="http://${sesame.host:localhost}:${sesame.port:8081}/openrdf-sesame
/repositories/test/statements"/>
  <property name="formUpdates">
    <value type="java.lang.Boolean">true</value>
  </property>
  -->
</bean>

<!-- Message Driven POJO (MDP) that manages individual indexers -->
<bean id="indexerGroup" class="org.fcrepo.indexer.IndexerGroup">
  <constructor-arg name="indexers">
    <set>
      ...
      <ref bean="sparqlUpdate"/>
      ...
    </set>
  </constructor-arg>
  ...
</bean>
```