

Solr Standalone Server – v5.7

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Mindtree

Digital Practice

Table of Contents

[Purpose of this document 1](#_Toc468701422)

[1. Config Folder changes 1](#_Toc468701423)

[2. Code/Impex Changes 3](#_Toc468701424)

[3. Solr fodler configuration changes 4](#_Toc468701424)

[4. Data DIR & Instance DIR 7](#_Toc468701424)

[5. References 7](#_Toc468701424)

# Purpose of this document

The purpose of this document is to help in configuring and setting up the Solr Standalone Server in Hybris V5.7

# 1. Config Folder changes

* 1. **localExtensions Changes:**

1. Add the below extensions in localextensions.xml file under config folder:

<extension name="solrserver" />

<extension name="solrfacetsearch" />

<extension name="solrfacetsearchhmc" />

* 1. **Local.properties changes:**

1. Add few configuartions to start the standalone solr server automatically when we start Hybris.

#----------------------------------------------

#--- Solr Server standalone configurations

#----------------------------------------------

legacyMode = false

solrserver.forceRestart=true

solrserver.instances.default.autostart=true

solrserver.instances.default.port=8983

solrserver.instances.default.memory=512m

solrserver.failOnError=true

solrserver.maxStatusRetries=10

solrserver.statusInterval=5000

solrfacetsearch.synonyms.filter.ignoreCase=true

solrfacetsearch.stopwords.filter.ignoreCase=true

#----------- Solr Configuration ends ------------------

# 2. Code/Impex Changes

**2.1** **Solr.impex changes:**

The solr.impex under “energizercore\resources\energizercore\import\stores\personalCare” path need to be changed as below:

Note: Please uncomment the highlighted the code for the 1st time to remove the already existing $serverConfigName since the mode(code) cannot be updated from “embedded” to “standalone”.

#

# Setup the Solr server, indexer, and search configs

#

#REMOVE SolrServerConfig;name[unique=true]

#;$serverConfigName

# Create the solr server configuration

INSERT\_UPDATE SolrServerConfig;name[unique=true];mode(code);embeddedMaster;useMasterNodeExclusivelyForIndexing

;$serverConfigName;standalone;false;true

INSERT\_UPDATE SolrEndpointUrl;solrServerConfig(name)[unique=true];url[unique=true];master[unique=true,default=false]

;$serverConfigName;http://localhost:8983/solr;true

# Create the solr indexer configuration

INSERT\_UPDATE SolrIndexConfig;name[unique=true];batchSize;numberOfThreads;indexMode(code);

;$indexConfigName;100;1;DIRECT;

3. Solr fodler configuration changes

**Schema.xml & solrconfig.xml changes:**

Modify the changes in schema.xml and solrconfig.xml which are under “D:\Hybris\_Versions\hybris-commerce-suite-5.7.0.0\hybris\config\solr\instances\default\configsets\default\conf” path.

**3.1 Schema.xml:**

**1st change:**

<fieldType name="text\_spell\_es" class="solr.TextField" positionIncrementGap="100">

<analyzer>

<tokenizer class="solr.StandardTokenizerFactory" />

<filter class="solr.SpanishStemFilterFactory" />

<filter class="solr.StopFilterFactory" words="lang/stopwords\_es.txt" ignoreCase="true" />

<filter class="solr.ManagedStopFilterFactory" managed="es" />

<filter class="solr.SynonymFilterFactory" ignoreCase="true" synonyms="synonyms.txt"/>

<filter class="solr.ManagedSynonymFilterFactory" managed="es" />

<filter class="solr.LowerCaseFilterFactory" />

<filter class="solr.TrimFilterFactory" />

<filter class="solr.RemoveDuplicatesTokenFilterFactory" />

</analyzer>

</fieldType>

**2nd change:**

<fieldType name="text\_es" class="solr.TextField" positionIncrementGap="100">

<analyzer>

<tokenizer class="solr.StandardTokenizerFactory" />

<filter class="solr.StopFilterFactory" words="lang/stopwords\_de.txt" ignoreCase="true" />

<filter class="solr.ManagedStopFilterFactory" managed="de" />

<filter class="solr.SynonymFilterFactory" ignoreCase="true" synonyms="synonyms.txt"/>

<filter class="solr.ManagedSynonymFilterFactory" managed="de" />

<filter class="solr.WordDelimiterFilterFactory" preserveOriginal="1"

generateWordParts="1" generateNumberParts="1" catenateWords="1"

catenateNumbers="1" catenateAll="0" splitOnCaseChange="1" />

<filter class="solr.LowerCaseFilterFactory" />

<filter class="solr.ASCIIFoldingFilterFactory" />

<filter class="solr.SnowballPorterFilterFactory" language="German2" />

</analyzer>

</fieldType>

**3rd change:**

<field name="autosuggest\_es" type="text\_spell\_es" indexed="true" stored="true" multiValued="true" />

**4th change:**

<copyField source="autosuggest" dest="autosuggest\_es" />

**5th change:**

<field name="spellcheck\_es" type="text\_spell\_es" indexed="true" stored="true" multiValued="true" />

**6th change:**

<copyField source="spellcheck" dest="spellcheck\_es" />

**7th change:**

<field name="fulltext\_es" type="text\_es" indexed="true" stored="false" multiValued="true" />

**8th change:**

<copyField source="\*\_text\_es" dest="fulltext\_es" />

**9th change:**

<dynamicField name="\*\_text\_es" type="text\_es" indexed="true" stored="true" />

<dynamicField name="\*\_text\_es\_mv" type="text\_es" indexed="true" stored="true" multiValued="true"/>

**3.2 Solrconfig.xml changes:**

**1st change:**

<lst name="spellchecker">

<str name="name">es</str>

<str name="classname">solr.DirectSolrSpellChecker</str>

<str name="field">spellcheck\_es</str>

</lst>

**2nd change:**

<lst name="spellchecker">

<str name="name">es</str>

<str name="classname">org.apache.solr.spelling.suggest.Suggester</str>

<str name="lookupImpl">org.apache.solr.spelling.suggest.tst.TSTLookup</str>

<str name="field">autosuggest\_es</str>

<str name="buildOnCommit">true</str>

<str name="buildOnOptimize">true</str>

<str name="accuracy">0.35</str>

</lst>

4. Data DIR & Instance DIR

The data DIR will get created automatically when we start the solr under “D:\Hybris\_Versions\hybris-commerce-suite-5.7.0.0\hybris\data\solr\instances\default\cores” path. There is no necessary to specify the InstanceDIR & DataDIR explicitly as in the previous versions.

5. References

<https://wiki.hybris.com/display/sawt/Separating+Solr+onto+its+own+instance>

<https://wiki.hybris.com/pages/viewpage.action?spaceKey=release5&title=SolrFacetSearch++-+Changes+from+5.6+to+5.7>

<https://wiki.hybris.com/display/release5/solrserver+Extension>

<https://wiki.hybris.com/display/hybrisALF/Solr+Tuning>

<https://wiki.hybris.com/pages/viewpage.action?spaceKey=release5&title=SolrFacetSearch++-+Changes+from+5.6+to+5.7#SolrFacetSearch-Changesfrom5.6to5.7-IndexerConfig>