

Using Metadata

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Table of Contents

.....	1
Create Metadata database	1
Insert data	1
Setting up 'Together Search Server Admin' application	1
Setting up a Site and Metadata database	3
Configuring Metadata list on a different database server	3

List of Tables

1. Insert data example 1

In order to use the Metadata feature of 'Together Search Server' the following steps are to be performed.

Create Metadata database

The first step is to create a metadata database. In the database a table should be created with following columns in the same order as written here. The column names are *arbitrary* and are given here only as an example:

OID - int, object ID

FILENAME - Varchar(254), file path

KEY - Varchar(254), metadata key name

VALUE - Varchar(254), metadata value for the given key

Insert data

After the successful database/table creation, the metadata table should be filled out with file paths to the files to be indexed along with their key and value pairs.

An example:

Table 1. Insert data example

OID	FILENAME	KEY	VALUE
1	'C:\myfile.xls'	'myKey'	'myValue'

Setting up 'Together Search Server Admin' application

The next step is to configure the 'Together Search Server Admin' application to have access to Metadata database.

The datasource for the database should be declared in the **tssAdmin.xml**. Here is an example of a data-source declaration:

```
<Resource name="metaDB" type="javax.sql.DataSource"
  maxWait="5000" maxActive="40" password="" maxIdle="10" username="sa"
  driverClassName="org.hsqldb.jdbcDriver"
  url="jdbc:hsqldb:${catalina.base}/hsqldb/metaDB / metaDB" />
```

Parameters:

Resource name is the datasource name for the database that will be used throughout the application.

driverClassName is the name of the driver class used

url is the url to the database

In addition to this configuration file, the **web.xml** configuration file should as well be edited to reflect the changes made in the tssAdmin.xml.

In the DatabaseManager/Databases[] entry, the include database name should be declared as in this example:

```
<env-entry>
  <env-entry-name>DatabaseManager/Databases[ ]</env-entry-name>
  <env-entry-value>metaDB</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>
```

In the following listing are the additional declarations needed for the Metadata database to be operational. The examples are given :

```
<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /ClassType</env-entry-name>
  <env-entry-value>HypersonicSQL</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /ObjectId/NextWithPrefix</env-entry-name>
  <env-entry-value>true</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /Connection/ShutDownString</env-entry-name>
  <env-entry-value>CHECKPOINT</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /Connection/DataSourceName</env-entry-name>
  <env-entry-value>jndi: metaDB </env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /Connection/ConnectionAllocator</env-entry-name>
  <env-entry-value>
    com.lutris.appserver.server.sql.datasource.DataSourceConnectionAllocator
  </env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /Connection/ConnectionFactory</env-entry-name>
  <env-entry-value>
    com.lutris.appserver.server.sql.DataSourceDBConnectionFactory
  </env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /ObjectId/MinValue</env-entry-name>
  <env-entry-value>1000000</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<env-entry>
  <env-entry-name>DatabaseManager/DB/ metaDB /Connection/MaxPoolSize</env-entry-name>
  <env-entry-value>10</env-entry-value>
  <env-entry-type>java.lang.String</env-entry-type>
</env-entry>
```

Setting up a Site and Metadata database

A Metadata database for a Site is defined in configuration file ('siteConf.xml'). The information about the MetaData list should be entered:

Metadata Database: is the resource name defined in tssAdmin.xml

Metadata Table: table where the metadata are stored

Metadata File Column: column in the table where the file paths are stored

Metadata Key Column: column in the table where property key are stored

Metadata Value Column: column in the table where property values are stored

Configuring Metadata list on a different database server

In order to run the metadata list on a database server other than HSQL, the following modification should be performed:

In the **tssAdmin.xml** the proper driver and url should be entered Supported values: HypersonicSQL, PostgreSQL, DB2, QED, MySQL, Sybase, Oracle, MSQl.

Example for MSQl:

```
<Resource name="metaDB" type="javax.sql.DataSource"
  maxWait="5000" maxActive="40" password="" maxIdle="10" username="sa"
  driverClassName="com.microsoft.jdbc.sqlserver.SQLServerDriver"
  url="jdbc:microsoft:sqlserver://localhost:1433;DatabaseName= metaDB;SelectMethod=cursor"/>
```

In the **web.xml** the `<env-entry-name>DatabaseManager/DB/ metaDB /`
`ClassType</env-entry-name>` value should be changed to the proper database. i.e. MSQl.