

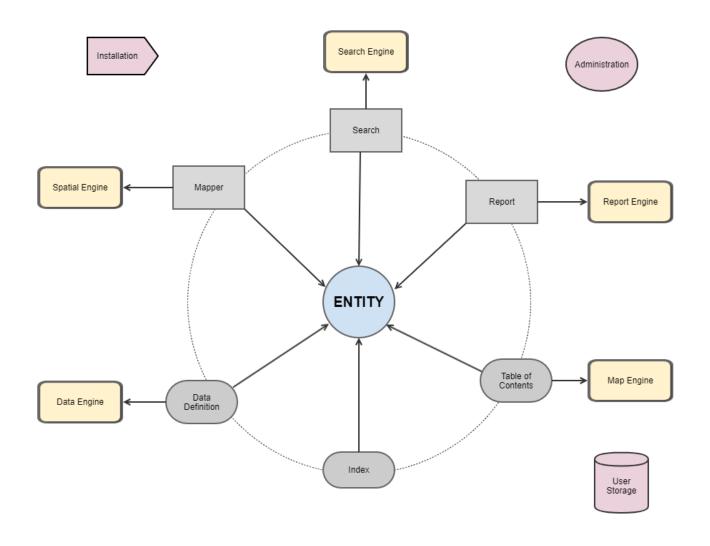
Weave System Administrator Guide Excerpt Feb 2022

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How-to Pages

Find a How-to Page by its Component

The diagram below links common tasks in Weave administration to their related components.



find a How-to Page by Keyword

A-C	D-G	H-K	L-O	P-R	S
activelayer administration api arcgis birt bookmark cdata certificate configuration	database datadefinition datagrid debug dropdownlist edit editing encrypt entity error grid	help hotfix http image index installation java jetty jvm	layer limit list listbox logfile logging mapengine maplayers maptip non-spatial	password patch query quicksearch redline report	search select selectable shapefile slider snippet spatial spatialengine ssl storage support syntax system

T-Z

tableofcontents testing toc upgrade user userstorage web

4 How-to Pages Listing

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- How to Add a Column to a Data Grid
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- How to Serve Additional Web Content
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- How to View the Developer Console

How to Add a Column to a Data Grid

When you have attributes being displayed in a Data Grid you can add or remove any field/column of the data at any time. This requires you to change the relevant Data Definition.

Step-by-step guide

- 1. Make note of the Active Layer and the field from that layer you want to add to the existing Data Grid. If you have more than one report used in the Data Grid for that Active Layer, then also note the name of the report.
- 2. Open your entity.xml file. Search for the name of the *Active Layer* you identified above (it will appear as the label). Note the value of the id XML Attribute.
- 3. Open your data.xml file for editing. Search for the value of the id identified in the step above. Find the section that defines the Data Definition you want to modify.
- 4. Add a new line to the datasourcedataconnection section so you have a new parameter line. The easiest way to do this is to copy and paste an existing line and then modify it. Ensure that you update the type, name, label and column parameters to match those of the field you are adding to the Data Definition.

In the example below the field being added is called amd_num and is specified as:

```
<parameter type='string' name='zoneamendmt_num' label='Amendment
Number' column='amd_num'/>
```

Once incorporated into the existing Data Definition it it will look like:

```
<data:datadefinition id='dd zone'>
        <datasourcedataconnection key='ogc_fid' table='mann.</pre>
zones' datasource='gis'>
                 <parameter type='interger' name='ogc_fid'</pre>
label='FID' column='ogc_fid'/>
                 <parameter type='string' name='zone_code'</pre>
label='Zone Code' column='zone_code'/>
                 <parameter type='interger' name='zone_num'</pre>
label='Zone Number' column='zone_num'/>
                 <parameter type='string' name='zoneamendmt_num'</pre>
label='Amendment Number' column='amd_num'/>
                 <parameter type='url' name='details' label='Link</pre>
to more details' column='details'/>
                 <parameter type='url' name='schedule'</pre>
label='Link to schedule' column='schedule'/>
        </datasourcedataconnection>
</data:datadefinition>
```

5. Once this change has been made, you may need to refresh your browser to see this attribute appear in your Data Grid window.



- Also refer to the following sections of the Weave System Administrator Guides:
 - Data Definition

Related articles

- How to Add a Column to a Data Grid
- · How to Add a New Data Grid
- How to Include an Image in a Data Grid or Map Tip

How to Add a Layer to the Table of Contents

When you have a new Map Layer available you can add it to your Table of Contents.

Step-by-step guide

- 1. If you know the details of the layer you want to add to your *Table of Contents* then open the toc.xml and edit this file. If you are familiar with the layer you want to display, you can use the other layers defined in this file as a guide and add in as many entry XM L Tag lines that you need.
- 2. If you're not sure what layers are available in the Map Engine you can use the Weave Administration Tool Console or Weave's OSGi console to assist you (using the Console will save you some typing and reduces the likelihood of a typing mistake). In the console, run the memd command with the details of the Map Engine you want to report on. If you're not sure of the Map Engine name, either refer to the mapengine.xml file or use the Map Engine Tool from the Administration Tool.

```
memd toc <mapengine_name>
e.g.:
    memd toc mapengine.main
```

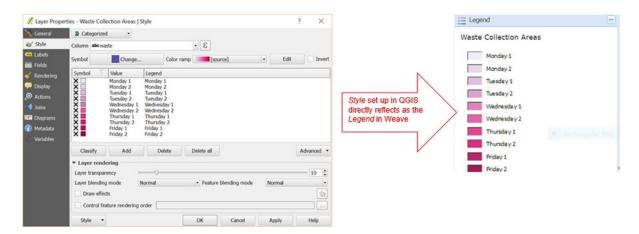
- 3. The memd command will generate XML that will be used in the toc.xml file. Depending on your logging properties, the results from this command will either be reported in the Console (where you can simply copy and paste the text) or in the c: \weave\logs\weave.log file (go to the bottom of the file and copy the section after the line "MapEngine ToC Configuration Generator").
- 4. Add the XML generated from the step above to the toc.xml file. The layers are assigned their XML Attribute id with the prefix of "I_" followed by the Map Engine name, followed by the name of the layer in the Map Engine. Use this same naming convention for any further layers added. Change the checked XML Attribute to true if you want the layer to be displayed by default when Weave starts.

Note: As you add more layers, ensure that you every ToC entry has an id (whether the entry is a group, folder or layer). The id should be unique across the whole ToC model. This also applies if you're using the same layer multiple times in a ToC model, i.e. maybe you have layers in groups and for ease of use you've put the same layer in multiple groups.

- 5. If the layer that you want to add to Weave is not reported as being part of the Map Engine then:
 - a. If you are the author of the mapping data then add the layer to one of your existing Map Engines.
 - b. Or contact the author of the mapping data and get them to add the spatial layer.

Changes to a Map Engine used by Weave will be automatically picked up by Weave.

6. The legend as displayed in the *Legend* panel in Weave is controlled by the Map Engine. If you want to change the ordering of items in the legend or naming of the legend items, etc., this needs to done in the system that is producing the map (e.g. ArcMap, QGIS, GeoServer). There is no Weave configuration that will change the appearance of the legend.



- Also refer to the following sections of the Weave System Administrator Guides:
 - Table Of Contents

Related articles

- How to Add a Layer to the Table of Contents
- · How to Create an Image Slider
- How to Maintain Bookmarks When a Map Engine Changes
- · How to Add a New Data Grid
- How to Add a New Active Layer

How to Add a New Active Layer

When you have a layer that you want to graphically select from, and report on its attributes, it needs to be set up as an Active Layer. This article assumes that you already have some Active Layers configured in Weave.

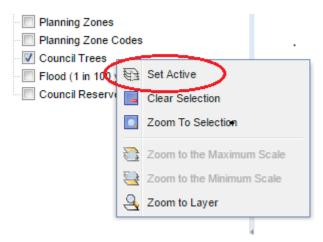
Step-by-step guide

- 1. If the layer you want to add as a new Active Layer is in the Table of Contents (TOC), make a note of the name shown in the Weave TOC (on the Layers panel).
 - · Generally, an Active Layer is related to a Map Layer from the TOC but this does not need to be the case. In the extreme, you can have just one raster base map in your TOC but you will still be able to do a graphical selection and have the selection appear over the raster map. In this case it will appear as though features on the raster map have been selected, but in fact it is the vector layer, that covers the same geographic area as the raster map, that is used in the graphical selection (through the Spatial Engine).
- 2. Open your too.xml file for editing. Search for the name of the Map Layer you identified above (it will appear as the label XML Attribute). Note the value of the layer XML Attribute.
- 3. While you have the toc.xml open, add an XML Attribute called entity to the end of that entry line.

In the example below the XML Attribute entity is added to the counciltrees layer and is set to counciltrees:

```
<entry id='l_mapengine.main_counciltrees' layer='counciltrees'</pre>
label='Council Trees' checked='false' entity='counciltrees'/>
```

Adding this entity attribute sets the relationship between the Active Layer and the Map Layer that is drawn from the TOC and means the Map Layer in the TOC will be highlighted when the corresponding layer is selected from the Active Layer drop-down list. To have the Set Active option available on the TOC Context Menu (right mouse click), ensure you have the weave.toc. selectLayer item enabled in the client_main.xml file. This will most likely have been done by Cohga during your Weave installation.



4. Open your entity.xml file for editing. Add an XML Element for this entity. The value of the (XML Attribute) id for the entity (shown in the example code below) should match the (XML Attribute) entity from the toc.xml file (shown in Step 3). In our example the value of the id is "counciltrees".

```
<entity:entity id='counciltrees'>
     <label>Council Trees</label>
</entity:entity>
```

The label in the entity.xml doesn't have to match the label in the toc.xml file but unless there's a good reason why these should be different, it's recommended to keep them the same to avoid confusion for the user.

5. If you refresh your browser you'll now see the *Active Layer* has been added to the Active Layer drop-down list (i.e. Council Trees). However it will have a different icon to the other Active Layers in the list as it hasn't been linked to a spatial database.



6. Stay in the entity.xml file. You now need to specify where the spatial data for the selection will be coming from by adding another mapping XML Entity that links the *Active Layer* to its relevant Spatial Engine. Add this to the mapper XML Element that is reading from the required Spatial Engine, and include the table name, key field, etc. as shown below.

You can also set a filter XML Tag so that only features that meet certain criteria will be considered for selection (see Spatial Mapper).

If there are no Active Layers from the Spatial Engine you need to access already defined in the <code>entity.xml</code> file, then you'll need to add a new tag for that Spatial Engine. For simplicity, give this mapper an id of <code>mapper.<spatialengine_id></code> as shown below.

If you refresh your browser you'll now see that the icon for that Active Layer (i.e. Council Trees) has changed to a layer-like icon. This icon indicates that the Active Layer is now a spatial layer.



- 7. If you now run a spatial selection, the selected features will be highlighted in the *Map Window*. The number of features selected will be reported as the "Selection Size" in the *Status Bar* at the bottom right corner of the Weave window.
- Also refer to the following sections of the Weave System Administrator Guides:
 - Entity
 - Spatial Mapper

Related articles

- How to Add a Layer to the Table of Contents
- How to Add a New Active Layer
- · How to Add a New Data Grid
- How to Add a New Search
- How to Create a Quick Search

How to Add a New Data Grid

When you have made a layer selectable (by defining it as an Active Layer) you will normally want to create a Data Grid to display the attributes of the layer or to display data from related tables.

Step-by-step guide

- 1. From the Weave client, make note of the Active Layer for which you want to create a Data Grid. Note also the datasource value (from the datasource.xml file), database schema name and table name.
- 2. Open your data.xml file for editing. This file will contain other Data Grids that have been configured for your site.
- 3. A new Data Definition needs to be created as this is what dictates which fields will be shown in the Data Grid. If you are familiar with the fields you want in the Data Grid, you can use the other Data Definitions as a guide and add in as many parameter XML Entity lines that you need. However an easier way is to use the Administration Tool Console window or Weave's OSGi console (this will save you some typing and reduces the likelihood of a typing mistake). In the console, run the dbmd command with the details of the table you want to report on.

4. Copy the XML generated at Step 3 into the data.xml file. Notice there are some FIX_ME values that need to be updated, i.e. you will need to give the Data Definition an identifier (with the id XML Attribute) and supply the key field (with the key XML Attribute). This is shown in the example below.

Raw XML as output from the dbmd command:

```
<data:datadefinition id='FIX ME'>
        <datasourcedataconnection key='FIX_ME' table='mann.</pre>
counciltrees' datasource='gis'>
                 <parameter name='fid' label='FID' column='fid'</pre>
type='int'/>
        <parameter name='tree_no' label='Tree No.'</pre>
column='tree_no' type='float'/>
                 <parameter name='species' label='Species'</pre>
column='species'/>
                 <parameter name='height' label='Height'</pre>
column='height'/>
        <parameter name='dbh' label='DBH' column='dbh'/>
        <parameter name='hazard' label='Hazard' column='hazard'/>
        <parameter name='condition' label='Condition'</pre>
column='condition'/>
        </datasourcedataconnection>
</data:datadefinition>
```

Updated XML ready for use:

```
<data:datadefinition id='counciltrees'>
        <datasourcedataconnection key='fid' table='mann.</pre>
counciltrees' datasource='gis'>
                    <parameter name='fid' label='FID'</pre>
column='fid' type='int' />
                 <parameter name='tree_no' label='Tree No.'</pre>
column='tree_no' type='float'/>
        <parameter name='species' label='Species'</pre>
column='species'/>
        <parameter name='height' label='Height' column='height'/>
        <parameter name='dbh' label='DBH' column='dbh'/>
        <parameter name='hazard' label='Hazard' column='hazard'/>
        <parameter name='condition' label='Condition'</pre>
column='condition'/>
        </datasourcedataconnection>
</data:datadefinition>
```

5. The output from the dbmd command reports on all the fields from the table so delete or comment out any lines that you do not want to include in the Data Grid. If you want all the fields to appear in the Data Grid, then you can delete all the parameter lines. By default, all fields from the table will be displayed in the Data Grid when no fields are given as shown below.

6. Some Weave practitioners use the "dd_" prefix as their naming convention for Data Definitions. This is not necessary as long as there are no other Data Definitions with the same id value. However if your Weave configuration is using the "dd_" prefix, or

another naming convention, then for consistency it is best to continue using this convention.

7. Add a data:data XML Element to link the Data Definition (defined above) to the Entity (from the entity.xml file) as shown below.

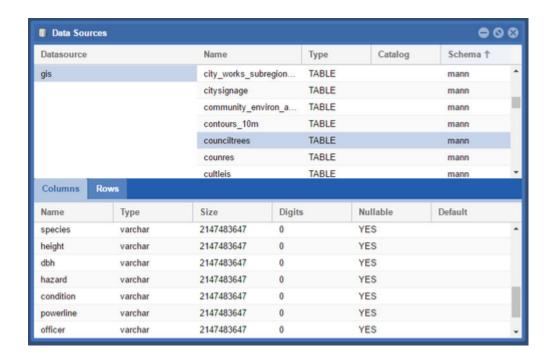
```
<data:data id="counciltrees" label="Council Trees" entity="
counciltrees" datadefinition="counciltrees" />
```

- 8. This has now set up a Data Definition that will be used in the Data Grid when a Search is run or the Identify tool is used.
- 9. Often, you'll want to display fields from more than one table or database in your Data Grid, particularly if you want to link spatial features to data stored in an aspatial database. This can be done by adding a from and where clause in the data:

 datadefinition XML Tag before listing the fields to retrieve. It's best to fully qualify the field in the column XML Attribute when reading from more than one table, i.e. <schema>..<field>. In the example below additional fields are being read from the same database but a different schema and table (i.e. datasource = gis, schema = cid, table = treedetails). (Note, you can only use a table from a second database if that table is known to the first database.)

```
<data:datadefinition id='counciltrees'>
         <datasourcedataconnection key='fid' table='mann.</pre>
counciltrees' datasource='gis'>
                 <from table="cid.treedetails"/>
                 <where clause="cid.treedetails.fid=mann.</pre>
counciltrees.fid"/>
                             <parameter name='fid' label='FID'</pre>
column='fid' type='int' />
                          <parameter name='tree no' label='Tree</pre>
No.' column='tree_no' type='float'/>
             <parameter name='condition' label='Condition'</pre>
column='condition'/>
                          <parameter name='priority'</pre>
label='Priority' column='priority'/>
       </datasourcedataconnection>
</data:datadefinition>
```

10. The Data Sources Tool in the Administration Tool reports on the tables that you can use in Data Definitions (and thus Data Grids). It is useful to explore data and check field names, etc. for data you wish to include in a Data Grid.



- Also refer to the following sections of the Weave System Administrator Guides:
 - Datasource Data Connection

Related articles

- How to Add a Column to a Data Grid
- · How to Add a New Data Grid
- How to Include an Image in a Data Grid or Map Tip

How to Add a New Search

When you have made a layer selectable (by defining it as an Active Layer) you can now define a Search that will run on that layer.

Step-by-step guide

- 1. Make note of the Active Layer from the Weave client for which you want to define a Search.
- 2. Open your entity.xml and search for the Active Layer name. It will appear as the label in an entity XML Tag. Make note of the value of the id XML Attribute and search for it within the same file. It will appear in a mapping XML Tag. Make a note of the values of the spatialengine, table and key XML Tags.
- 3. Ensure the Search panel is visible somewhere in the Weave application by adding the <view id='com.cohga.html.client.main.searchView'> item to the client_main.xml file. This will most likely have been done during your Weave installation.
- 4. During your Weave installation, some searches may have been configured in the search.xml. In order to get the correct structure of the search XML, the easiest thing to do is to copy an existing search:attribute XML Element, and then edit it.
- Modify the XML Attribute values so that they reflect your database and the fields you want to search. Keep in mind that databases have different rules regarding the case of field names (PostgreSQL uses lower case, Oracle uses upper case, SQL Server uses mixed case, etc.).
- 6. Start with a simple search where the input is typed in by the Weave user as shown in the example below.

```
number' column='tree_no' />
</search:attribute>
```

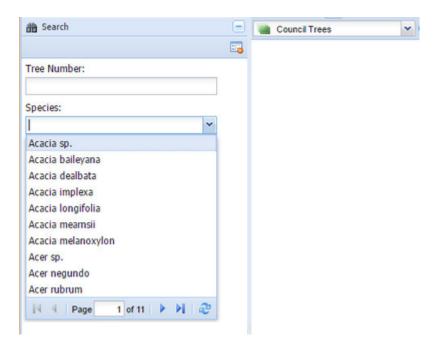
The resulting search in Weave will appear as shown below:



7. If you want to have a drop-down list as part of your Search, the controlType XML Attribute of "listbox" needs to be included as shown below. The content of the list is specified by the dataset XML Attribute (which will be created in the next step).

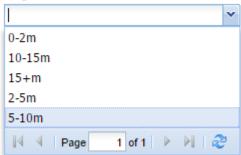
8. The above step adds a drop-down list to the Search panel but the list won't have any values in it. To populate the list, a Data Definition needs to be created in the data.xml file. The Data Definition specifies which values will be in the list.

9. You will need to refresh your Weave browser to see the new list in the Search panel.



- 10. The Config Tool in the Administration Tool reports on all the valid Data Definitions created so you can use it to find and view the definitions of all the Data Definitions. The Data Definition you created for your drop-down list should be shown, together with others used in Data Grids. Press the Open button to view the XML for it.
- 11. In some cases, the values in a list may appear in the incorrect order, e.g. they are stored as a string but they are quantitative rather than qualitative, as shown in the example below.

Height:

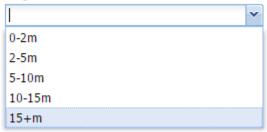


In order to get the list items displayed in a different order, you can set up this search parameter as a value list. This requires some configuration of the XML file but it will produce a better result for the Weave user and is a good alternative to an automatic list if the number of possible values is small.

12. Add the following code to your search.xml file.

The resulting list in Weave will appear as shown below:

Height:



13. You could also use radio buttons to get the listing in the correct order. This works for a short list and five items is probably the maximum number of items you'd want to use for this type of list.

The resulting list in Weave will appear as shown below:

Height:

- 0-2m
- 2-5m
- 5-10m
- 10-15m
- 15+m
- Also refer to the following sections of the Weave System Administrator Guides:
 - Attribute Search
 - Spatial Search

Related articles

- How to Add a Layer to the Table of Contents
- How to Add a New Active Layer
- How to Add a New Data Grid
- How to Add a New Search
- How to Create a Quick Search

How to Clear Your Browser Cache

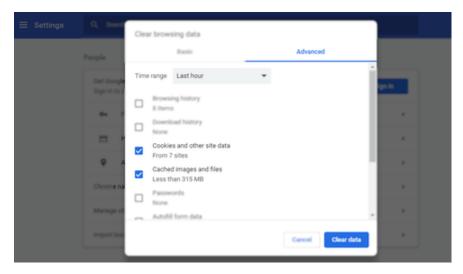
When you are getting unexpected results from Weave, it can be useful to clear your browser's cache. The browser may be holding on to (caching) information that you don't want it to. This can be the case when you receive "invalid session" errors or "502 - Bad Gateway" errors.

An alternative to clearing your browser cache is to use Incognito/Private windows when browsing. However, please note that if you have multiple Incognito/Private windows/tabs, browser cache storage will be shared across those incognito windows/tabs (i.e. closing one incognito window while others are open does not wipe out the cache storage).

This page explains how to clear the cache for the most popular web browsers.

Step-by-step guide

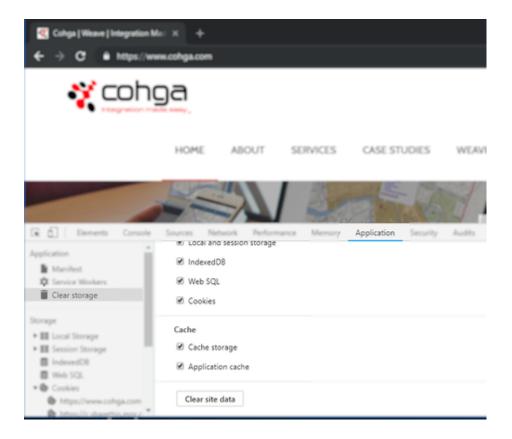
- 1. For IE 11:
 - a. Open the Tools menu (Alt-x).
 - b. Go to Internet options.
 - c. In the General tab, in the Browsing history section, press the Delete button.
- 2. For Edge:
 - a. Open Settings and more menu (Alt-x).
 - b. Go to Settings.
 - c. In the Clear browsing data, press the Choose what to clear button.
 - d. Select all the options and press the ${\tt Clear}$ button.
- 3. For Mozilla Firefox:
 - a. Open menu > Options > Privacy & Security.
 - b. In the Cached Web Content section, press the Clear Now button.
- 4. For Google Chrome:
 - a. Click on the Chrome menu button ().
 - b. Select 'More tools' 'Clear browsing data' (keyboard shortcut: Ctrl+Shift+Del) .
 - c. Select the 'Advanced' tab.
 - d. Select an appropriate time range from the drop down list.
 - e. Check:
 - i. Cookies and other site data
 - ii. Cached images and files
 - f. Press the 'Clear data' button.



Note: If your problem persists after clearing history for the 'Last hour', select 'All time' from the 'Time range' drop down as an older cookie may be interfering with the workflow.

Chrome Advanced: Only clear cache and cookie data associated with the current website:

- a. Press F12 key to open Developer Tools window
- b. Navigate to 'Application' tab
- c. Select 'Clear storage' node on the left hand side
- d. Make sure all items on the right hand side pane are selected
- e. Click 'Clear site data' button.



Related articles

- · How to Get the Most From Weave Logging
- How to Clear Your Browser Cache
- How to Debug a BIRT Report

How to Create a Quick Search

When you want to create a flexible search option you can create a Quick Search. A Quick Search looks across a range of layers for a match against entered criteria. The Quick Search function is independent of the Active Layer. However before it will work, a Quick Search requires an Index to be created.

Step-by-step guide

1. Open the client_main.xml file for editing. Ensure the *Quick Search* text box is visible somewhere in the Weave application by searching for "indexcombo". If it's not there, add the following XML to your file:

```
<item component="weave.indexcombo" minScale="2500" all="true"/>
```

- $2. \ \, \text{An Index is linked to an Entity so the Entity should exist in the $\tt entity.xml file. If it doesn't exist, add it to the $\tt entity.xml file. } \\$
- 3. The details of the Quick Search itself need to be added to the index.xml file. This specifies what results you want returned. The process of setting up an Index (and thus a Quick Search) is well documented in the Weave Configuration Reference (Indexing). Please refer to it as there are many parameters that can be set on your Index, and to achieve the desired result it is necessary to understand the way the Index is created and the parameters that can be defined.
- 4. Though an Index is defined in the index.xml file the Index itself is not automatically created, and is created manually or at a set time. Once you've defined an Index, it can be created manually using the Weave Administration Tool Console or Weave's OSGi console.
- 5. Open the console window and type the command is to return a list of all indexes.

```
osgi> is
Weave Index Service

Index Id Entity Count Locked Modified
∅ prop.layer prop_layer 46575 false Thu Apr 21 16:37:36 EST 2016
```

6. Note the Index number that is of interest (the number under the Index heading). Then use the command ib <space separated list of index ids> to rebuild the index of interest. The index will be built in the background so check the Weave log file for the results of the index build.



- 1 Also refer to the following sections of the Weave System Administrator Guides:
 - Indexing

Related articles

- How to Add a New Active Layer
- How to Add a New Search
- How to Create a Quick Search
- How to Use a List in an Attribute Search

How to Create an Image Slider

There are many things to consider when adding an Image Slider in order to get the result you desire. Also affecting the workings of your slider is what is serving the images and whether they have the ability to set image transparency. These considerations are covered in other sections of the Weave Configuration Reference.

The instructions below cover how to add a simple image slider when you have a number of vector layers in your Table of Contents and are looking to provide the user the ability to turn on one of three images via an Image Slider. This is by no means the limit of what can be done, it's merely an example of what can be done.

Step-by-step guide

1. Add the imageTransSlider component to your client XML file. This is added to the Map View and will use existing Map Engines.

```
<item component="weave.</pre>
compassImageTransSlider">
                                           <width>120</width>
                                           <value>0</value>
                                           <increment>10</increment>
                                           <disabled>false<
/disabled>
                                           <mapEngine>mapengine.
google.satellite</mapEngine>
                                  </item>
                                  <item>Google Satellite</item>
                          </statusbar>
                          <mapEngine id="mapengine.google.</pre>
satellite" />
                          <mapEngine id="mapengine.main">
                                  <options>
                                  </options>
                          </mapEngine>
                 </view>
```

- 2. Primary image slider will transition between the layers in your ToC and the Map Engine given in the imageTransSlider. More information about the Image Slider can be found here.
- 3. To add a secondary imagery slider more configuration is required.

```
<view id="com.cohga.html.client.map.mapView">
                         <label>Map</label>
                         <location>center</location>
<statusbar>
                                  <item>Image Slider</item>
                                  <item></item>
                                  <item component="weave.</pre>
compassImageTransSlider">
                                          <width>120</width>
                                          <value>0</value>
                                          <increment>10</increment>
                                          <disabled>false<
/disabled>
                                          <mapEngine>mapengine.
google.satellite</mapEngine>
                                  </item>
                                  <item>Google Satellite</item>
                                  <item><
/item>
                                  <item component="weave.</pre>
compassSecImageTransSlider">
                                          <width>120</width>
                                          <value>0</value>
```

```
<increment>10</increment>
                                           <mapEngine>mapengine.
google.alt</mapEngine>
                                  </item>
                                  <item component="weave.</pre>
compassSecImageChooser">
                                           <layer id="0" text="</pre>
Google Maps Alt" mapengine="mapengine.google.alt" isDefault="
true"/>
                                           <layer id="0" text="</pre>
Google Maps Alt Terrain mapengine="mapengine.google.alt.
terrain" />
                                           <layer id="0" text="OSM"</pre>
mapengine="mapengine.osm" />
                                  </item>
                          </statusbar>
                          <mapEngine id="mapengine.google.</pre>
satellite" />
                          <mapEngine id="mapengine.google.alt" />
                          <mapEngine id="mapengine.google.alt.</pre>
terrain" />
                          <mapEngine id="mapengine.osm" />
                          <mapEngine id="mapengine.main">
                                  <options>
                                  </options>
                          </mapEngine>
                 </view>
```

This will result in two sliders as shown below.



- Also refer to the following sections of the Weave System Administrator Guides:
 - Client Views Map

Related articles

• How to Create an Image Slider

How to Debug a BIRT Report

When you have a BIRT Report that is not giving the output you were expecting, it can be useful to obtain debugging information from BIRT.

Step-by-step guide

Create a file called birt.properties file in the ..\weave\platform\workspace directory (e.g. C:\weave_dev\platform\workspace) and add the line below:

File to enable BIRT logging

logLevel=FINE

- 2. Restart Weave.
- 3. This will enable BIRT logging which will be written to the ..\weave\platform\workspace\.birt\logs folder (e.g. C: \weave_dev\platform\workspace\.birt\logs).
- 4. Run the problematic BIRT report and check the newly created log file for errors.
- 5. To turn off this logging, either comment out the line as shown below (that way you have the file for the next time you need to use it) and restart Weave,

File to disable BIRT logging

#logLevel=FINE

or delete the birt.properties file and restart Weave.

- Also refer to the following sections of the Weave System Administrator Guides:
 - BIRT

Related articles

- How to Debug a BIRT Report
- How to Edit an A3 Portrait BIRT Report

How to Edit an A3 Portrait BIRT Report

There is currently a bug with the version of BIRT Weave 2.5 which means it's not possible to edit some reports through the *BIRT Report Designer*. So if you are using Weave 2.5 or greater, and have an A3 Portrait report, follow the steps below in order to fix your report so that it can be edited with the *BIRT Report Designer*.

This BIRT bug is not related to any mapping component so will apply to all A3 Portrait BIRT reports, including those that don't have map elements.

Step-by-step guide

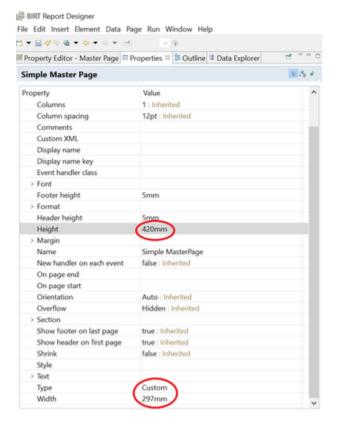
For an existing report:

- 1. When you attempt to open a report that has an A3 portrait size set, BIRT will give an error ("Failed to create the part's controls"). So you can create a new A3 portrait report however once closed, it cannot be opened in BIRT.
- 2. To be able to modify this report through BIRT you need to change the size of the page using a text editor.
- 3. Navigate to your BIRT reports folder (e.g. C:\weave\platform\workspace\reports).
- 4. Open the relevant $\verb|.rptdesgn|$ file in a text editor.
- 5. Search for "a3" in the file.
- 6. This will generally appear in the "Simple MasterPage" section.
- 7. Replace that with the lines below, or something similar depending on what else you have defined in your Simple MasterPage section.

8. The report should now be able to be opened with the BIRT Report Designer and edited as per other reports.

For a new report:

- 1. Start the BIRT Report Designing by double clicking the birt.cmd file in your Weave folder.
- 2. Choose File > New > New Report and give the report a name and press Finish.
- 3. Open the Properties window (Windows > Show View > Property Editor).
- 4. Click on the Advanced tab.
- 5. In the Simple Master Page section, scroll to the Type option. Even though you want an A3 size report, don't chose A3 from the list of options, choose "Custom".
- 6. Or in the General tab under the Type option, choose "Custom".
- 7. Then set the Width parameter to "297mm" and the Height parameter to "420mm" as per the image below.



- 8. Save the report file and close the BIRT Report Designer.
- 9. The report should now be able to be opened with the BIRT Report Designer and edited as per other reports.
- Also refer to the following sections of the Weave System Administrator Guides:
 - BIRT
 - Report

Related articles

- How to Debug a BIRT Report
- How to Edit an A3 Portrait BIRT Report

How to Encrypt Passwords in Configuration Files

When you need to include sensitive passwords in your config files and want to ensure that they're encrypted so they can't be easily seen be users looking at the configuration files.

Step-by-step guide

- 1. Use the osgi console encrypt command to encrypt a clear text password
 - a. Go to to the osgi console and type encrypt <password> and press return e.g.

Encrypting a password

osgi> encrypt My\$upaSekrutP@sswurd ENCKPXBCTMGGMKBGKPK

2. Copy the encrypted password from the console and paste it back into the configuration file replacing the original password

Before encrypting password

<username>bob</username> <password>My\$upaSekrutP@sswurd<password>

After encrypting password

<username>bob</username> <password>ENCKPXBCTMGGMKBGKPK<password>

1 The encryption key used to encrypt the passwords is stored in the file called private.key located in the Weave folder (e.g. C: \weave\platform\workspace).

This file is generated the first time Weave starts and will be unique for each Weave instance, which means that encrypting the same password with different instances of Weave would result in different encrypted text.

This means that if you want to re-use the same configuration files on multiple Weave instances, for example development and production, then you need to either:

- Copy the private.key file from the server where the passwords were encrypted to the other server, so the encryption /decryption key is the same on both instances.
- Extract the passwords from being directly included in the XML and set them in a separate XML file that you include into
 your config and encrypt the passwords on both Weave instances and have the different passwords set in the password
 XML file.

Additionally, for extra security the permissions on that file should be set to only allow the users running the Weave instance to read the private.key file.

- Also refer to the following sections of the Weave System Administrator Guides:
 - Client Actions
 - Table Of Contents

Related articles

- How to Encrypt Passwords in Configuration Files
- · Encrypting content in the security.xml file

How to fix a PKIX Path Building Failed Error

If you're seeing errors in the weave.log file like:

PKIX exception output

com.esri.arcgisws.runtime.exception.ArcGISWebServiceException: sun. security.validator.ValidatorException: PKIX path building failed: sun. security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target

it's likely cause by Weave trying to communicate with an external service that uses a certificate that Weave doesn't know about, for example if the service uses a self-signed certificate.

This could happen if you're connecting to an ArcGIS server that you're hosting within your own organisation where it's been installed and setup using its own certificate (which is the default when ArcGIS Server is installed).

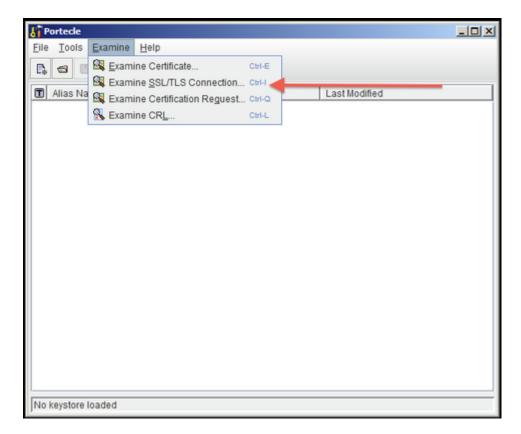
To resolve this problem the Weave certificate store needs to be updated to include information about the certificate that the server is presenting. This can be done manually using the <code>openssl</code> tool but it can also be done using a graphical tool Portecle.

Step-by-step guide

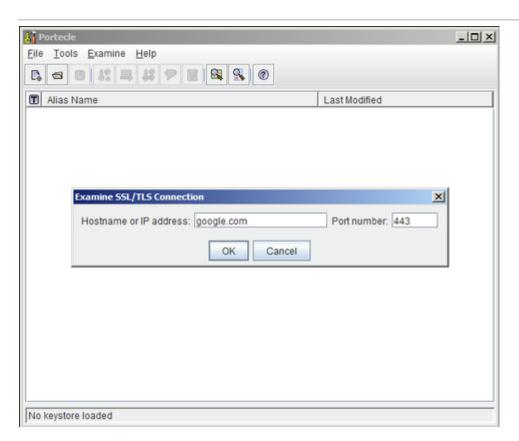
- 1. Download and install the Portecle application onto the server that runs Weave. For this example we'll download the portecle.zip file and assume it's been unzipped into the c:\temp directory (the current version of Portecle at the time of writing is 1.11, which is included in the paths within the .zip file).
- 2. Start the Portecle application in the same way you'd start a Weave updater. You may be able to double click on the portecle.jar file but if that doesn't work you'll need open a command prompt and start it manually, e.g. assuming Weave is installed at c: \weave\ and Portecle has been extracted to c:\temp\portecle-1.11\ you can open cmd.exe and run java.exe with the jar option and the path to the portecle.jar file

```
C:\Users\sforbes> c:\weave\jre\bin\java.exe -jar c:
\temp\portecle-1.11\portecle.jar
```

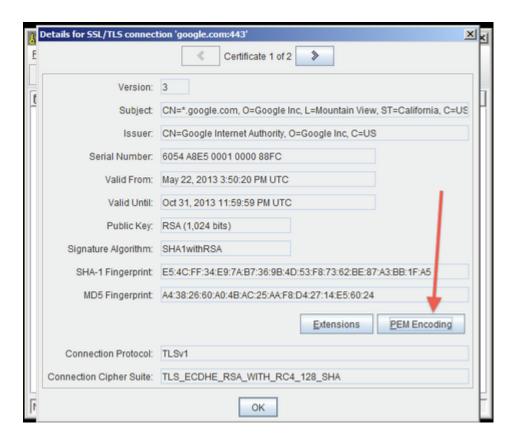
3. Select the Examine menu and then click Examine SSL/TLS Connection:



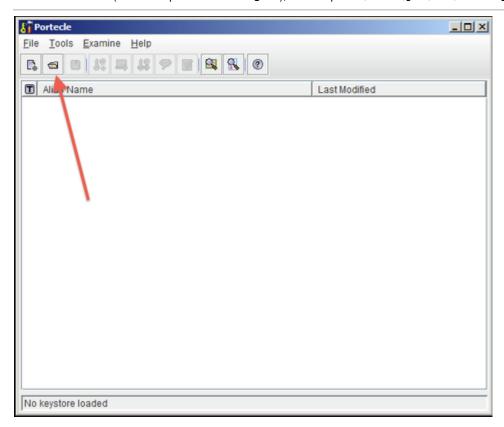
4. Enter the SSL Host and Port of the target system. In this example we're looking at google.com but it'll likely be the name of your ArcGIS Server host, the weave.log file should provide the information just before the PKIX exception (note that if the information in the log does not report a port number then it's is probably 443):



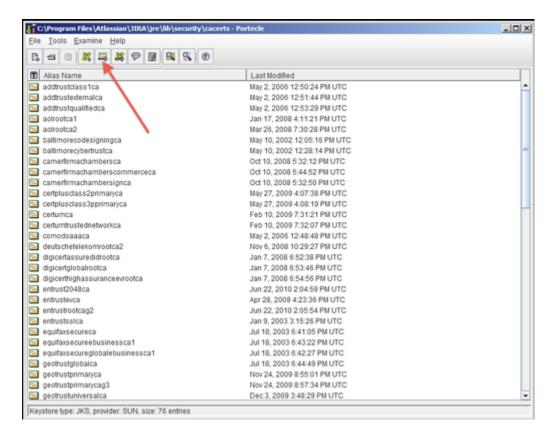
5. Wait for it to load, then select the public certificate and click on PEM (you will likely only have a single certificate to choose from, but this screen shot shows two available):



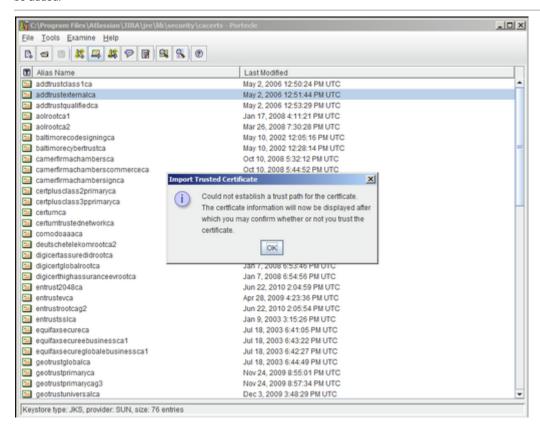
- 6. Export the certificate and save it to a file.
- 7. Go back to the main screen and select the **Open an existing keystore from disk** option, and select the **cacerts** file from the Weave Java runtime (the default password is **changeit**), for example **C:\weave\jre\lib\security\cacerts**:



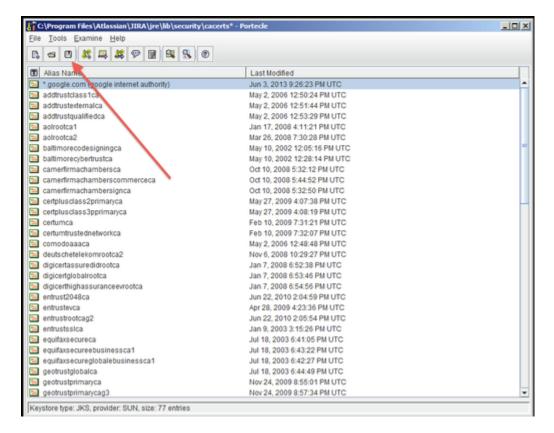
8. Select the **Import a trusted certificate into the loaded keystore** button:



9. Select the certificate that was saved in Step 6 and confirm that you trust it, giving it an appropriate alias and verifying that it should be added:



10. Save the Key Store to disk:



11. Restart Weave and verify that the external service can now be connected to.

1 If your Weave server is running on a server where you cannot run a graphical application then you can copy the cacerts file to another PC, follow these instructions, then copy the file back to the Weave server.

Related articles

Connecting to SSL services

Unable to Connect to SSL Services due to PKIX Path Building Failed

- How to Get the Most From Weave Logging
- How to fix a PKIX Path Building Failed Error
- How to Clear Your Browser Cache

How to Get the Most From Weave Logging

Weave logs can give you a lot of information to help you deal with problems if they arise in your Weave installation. Here are a few pointers that can help you get the most out of your Weave logging.

As of Weave 2.6.7, the logging system for Weave has changed from log4j to Logback. So while this page may refer to log4j (instead of Logback) and logging.properties (instead of logging.xml), the information is still relevant and has been extended to reflect the change in logging library, Refer to the Administration Guide Logging page for more information.

Step-by-step guide

- 1. In most cases the first step in resolving issues with Weave involves looking at the weave.log file (in the...\weave\logs\ folder) and searching for any ERROR or WARN messages that may be related to the problem being experienced. This file keeps a running log of what Weave is doing at any moment, and by triggering the action that's causing the problem and then looking at the last few lines that were written to the log file, it may be possible to determine the cause of the problem.
 - a. This is assuming that logging to weave.log is enabled, which it was by default prior to Weave 2.6.7. As of Weave 2.6.7, by default weave.log output is only generated when Weave is run from a service/daemon, if it is not then the output will be sent to the console window. But this can be changed by editing the default logging.xml file.
 - b. As of Weave 2.6.7, detailed log information is always available via the Log Tool in the Admin Tool and also via the "dump logs" OSGi console command, independent of the weave.log file.
- 2. If you have administration access to the Weave server then you can change the logging level yourself. This is done by changing a parameter in the logging properties files (in the ..\weave\platform\workspace folder) to one of the settings as shown

below. Enabling the DEBUG log level is important when trying to identify the cause of a problem, and can be done on a running system without having to restart Weave (though you have wait for up to 30 seconds for the change to be registered).

Logging for problem debugging and installation

```
log4j.rootCategory=DEBUG, stdout, file, admin
```

Logging for normal operation

```
log4j.rootCategory=INFO, stdout, file, admin
```

For Weave running as a service output to log file and Admin Tool only

```
log4j.rootCategory=INFO, file, admin
```

- a. For Weave 2.6.7 and later, this is done in logging.xml and the root log level is always set to debug so you must set the log level within each appended to change the level. The root category tag lists the logging appenders that are used to generate the different types of log output and by default use configuration options to try and determine the best type of log output depending upon where Weave is running, e.g. from the console, as a service, within an IDE. But this can be changed to remove the conditions and allow you to directly choose which types of log output your require.
- 3. If your initial investigation of the weave.log file doesn't reveal anything then the following method should be followed:
 - 1. Ensure that the logging level in the ...\weave\platform\workspace\logging.properties file is set to DEBUG (this includes both the log4j.rootCategory and log4j.appender.file.Threshold settings).
 - 2. Stop Weave.
 - 3. Delete ...\weave\logs\weave.log.
 - 4. Start Weave.
 - 5. Perform the action that causes the problem.
 - 6. Log a Support Ticket and include the weave . log file to us (after compressing it if it's large).

This method asks for Weave to be stopped and the log file cleaned out so that we can ensure that the log file covers as little as possible *other* than what is related to the problem since log files can grow quite large. If the problem is being experienced on a production system then it's not essential that the log file be cleaned out since Weave cannot be stopped. But, enabling the DEBUG log level is important, and can be done without having to restart Weave.

- a. This still applies for Weave 2.6.7 and later, it's just the changes are made to logging.xml, not logging.properties
- 4. Use the Log Tool in the Weave Administration Tool to view the debug, information, warning and error statements from your Weave while it's in operation.
- 5. By default the Weave log file will not contain the date of the entry written in the log file, just the time, as there is a new log file created every day. However if you need the date of the log entry recorded in your log file then you can make this change in the logg ing.properties files (in the ..\weave\platform\workspace folder) as shown below.

Default log file parameters

```
# Define a logger that sends it's output to a rolling log file
log4j.appender.file=org.apache.log4j.DailyRollingFileAppender
log4j.appender.file.Threshold=DEBUG
log4j.appender.file.File=../logs/weave.log
log4j.appender.file.Encoding=UTF-8
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d{ABSOLUTE} %-5p [%
t] %x %c "%m"%n
```

Change the ${\tt ConversionPattern}$ setting (in the last line) as shown below.

Log file with date for each entry

```
# Define a logger that sends it's output to a rolling log file
log4j.appender.file=org.apache.log4j.DailyRollingFileAppender
log4j.appender.file.Threshold=DEBUG
log4j.appender.file.File=../logs/weave.log
log4j.appender.file.Encoding=UTF-8
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d %-5p [%t] %x %c
"%m"%n
```

The same change can be applied to other logging methods you have defined in your logging.properties file (e.g. log4j. appender.stdout, log4j.appender.email).

- a. This is no longer the default in Weave 2.6.7 and later, the full date and time of the log event is recorded in the log file.
- 6. If you are running a search and it's not giving you the results you are expecting then it's good to see the actual SQL command that is being sent to the database. Search for "NativeSQL" in your log file, copy the SQL statement, and run it in your database query software or in the Data Source SQL tool in the Weave Administration Tool.
- 7. If you are having problems on the Weave client side (browser) you can get more information returned from the browser. To do this add ";debug" to the startup URL (e.g. http://server1:8080/weave/main.html;debug). Pressing the F12 key, in Internet Explorer, once Weave is open, will open up the browser console and display any client side errors. Restarting Weave with the normal URL will return it to the standard way of operating.
- Learn to love your log files!

Related articles

- How to Get the Most From Weave Logging
- · How to fix a PKIX Path Building Failed Error
- How to Clear Your Browser Cache

How to Include an Image in a Data Grid or Map Tip

When you have images associated with records in a table it is possible to include the image in a Data Grid or Map Tip. In order for the image to be included in either of these, it must be part of the Data Definition used.

Step-by-step guide

- 1. Identify which table and field contains the image name and location, or just the image name. This will be needed so that every feature has its corresponding file link.
- 2. In your Data Definition, add a parameter for the image file link. It's best to enclose the file path with a CDATA section to ensure all characters are interpreted correctly. Weave will need to serve the image using a web server so put in the correct reference to your images through the web server, e.g. http://servername/path/image_name
- 3. If you do not have a web server you can use Weave's web server. However for this to work you need to store your images in a folder recognised by the Weave web server. For example you could create an "images" folder in your webapps folder (C: \weave\webapps\images) and put all your linking images in there.
- 4. As mentioned in Step 3, if you have put your images in a Weave web server folder, and the name of the image is stored in a field called tree_photo, then to include those images in a Data Definition you could use the code below.

If the image file extension is not stored in the field of the image name, you can append it to the file name as shown below.

5. Alternatively you could add a link to the image to your Data Definition, rather than displaying the image itself. In this case you set the parameter of type as "url" as shown below.

```
<parameter type="url" name="imagelink" label="Image Link"
column="'http://localhost:8080/images/'||tree_photo"/>
```

6. If you do not want to use a web server you could also use the file: reference to add a link to your images in a Data Definition, but this only works if the user is using Internet Explorer as their browser. If you do want to try the file: reference, two alternatives for this are shown below, where mycomp is the name of the computer where the images are stored in the folder C:/images/flora.

There are security implications with allowing web sites to access your local file system via the file: reference so in some environments this may not work and you may have to use the http: reference as described in Step 5.

For further information on Data Definitions: Datasource Data Connection

Related articles

- How to Serve Additional Web Content
- How to Include an Image in a Data Grid or Map Tip

How to Include Special Characters in Weave Configuration Files

When you need to use special characters in your Weave configuration files it's necessary to use the CDATA XML construct so that all the characters are correctly interpreted.

All text in an XML file will be interpreted by an XML parser. Some characters (<, >, &, !) have a special meaning in XML so if they are used in an XML file their markup language meaning will be used rather than their literal character meaning. In order to use the literal character meaning of special characters the text is put in a CDATA section. CDATA sections can be used anywhere character data would be used, and anything within the CDATA section will be ignored by the XML parser (that is, the XML markup meaning will be ignored).

Step-by-step guide

1. CDATA sections are used a lot when specifying file paths and locations to ensure all characters in the path and file name are interpreted correctly:

```
<wms:url><![CDATA[http://services.land.vic.gov.au/catalogue
/publicproxy/guest/dv_geoserver/wms]]></wms:url>
```

Or when setting filters:

```
<filter><![CDATA[plan_code <> 0]]></filter>
```

2. CDATA sections begin with the string

```
<![CDATA[
```

3. CDATA sections end with the string

```
] ]>
```

4. An alternative to using CDATA sections is to use the markup characters to get the resulting character you need. However this can get messy, using CDATA sections makes your XML files much more readable and reduces the likelihood of mistakes.

For example, the same filter parameter given in Step 1 can be written as:

```
<filter>plan_code &lt;&gt; 0</filter>
```

Further reading: https://en.wikipedia.org/wiki/CDATA

Related articles

- How to Set a System Property
- How to Increase the Spatial Operation Limit
- How to Include Special Characters in Weave Configuration Files

How to Increase the Spatial Operation Limit

Some spatial operations can take a very long time to execute and if the user creates a large selection and attempts to perform one of those operations against the selection this could result in high CPU usage for an extended period while the operation is performed. Usually, the browser has timed out before the operation completes and, making matters worse, the user may re-try the operation causing even more load to be placed on the server.

To try and mitigate this risk, Weave implements a limit on the number of entities that can be selected before one of these operations is performed. The default for this limit is 200 but can be changed by setting a system property named weave.spatial.operation.limit to the new limit, or 0 to disable it.

Instructions

- 1. Edit ... \weave\service\conf\wrapper.conf and add an additional system property
 - a. Locate the last additional property in the file (they are usually defined at the end of the file)
 - i. The "additional properties" are those listed in the form wrapper.java.additional.## = ...
 - b. Find the number of the last set additional property, and increase it by one
 - c. Create a new additional property (with the new incremented property number) and set the value to -Dweave.spatial. operation.limit=###
 - i. Where ### is the new value you want to use for the limit (or 0)
- 2. If you use startup.cmd or startup.sh to start Weave then you need to do the same thing for those files but the way the properties are set is different
 - a. For those files the JAVA_OPTS variable must be updated.
 - b. There are a number of existing properties in those files that should make it clear how to add an additional property. Follow the same set out as those existing properties for this new property.
- (1) Example wrapper.conf line Assuming previous additional property was number 21 and 500 is the new limit. wrapper.java.additional.22 = -Dweave.spatial.operation.limit=500
- Example for startup.cmd
 SET JAVA_OPTS=%JAVA_OPTS% -Dweave.spatial.operation.limit=500
- Example for startup.sh
 JAVA_OPTS="\$JAVA_OPTS -Dweave.spatial.operation.limit=500"

Related articles

- · How to Get a Weave Support Dump using a URI
- · How to Get the Most From Weave Logging
- How to Serve Additional Web Content
- How to Set a System Property
- How to fix a PKIX Path Building Failed Error

How to Install a New Version of Weave

If you already have a version of Weave running, you can upgrade it to the latest version released, or you can perform a completely new installation. This page covers how to perform a new installation.



1 This page is valid if you are already running a 2.5 version of Weave and are looking to install a later minor release (a point release).

Step-by-step guide

- Download the Installer file as directed by the new release email from the Weave Support System or from the Latest Downloads page.
- 2. The Installer file is a .jar file so it needs Java to run. If you don't have Java installed but have a previous version of Weave installed, you can use the Java executable that is installed with that Weave (e.g. c:\weave\jre\bin\java.exe).
- 3. It is recommended that you install the new Weave release into a new folder so you can still have your current version running. You can then remove/rename the previous installation once you are satisfied that the new installation is ready. The steps below give you an example of how this would be done in a Windows environment.

```
Current Weave folders = c:\weave

New Weave folders = c:\weave-2-5-18

Weave downloaded file = c:\downloads\weave-installer-2.5.18.jar
```

On a Windows Command Line, run:
 cd c:\weave\jre\bin

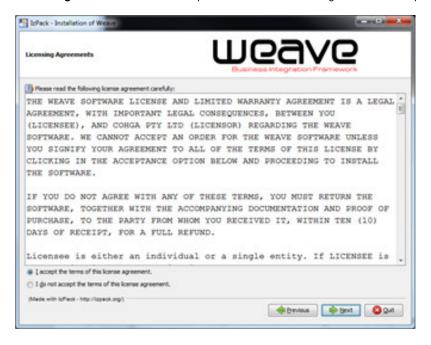
```
java -jar c:\downloads\weave-installer-2.5.18.jar c:\weave-2-5-18
```

The last parameter in the line directly above ($c:\weave-2-5-18$) is optional, if given this will be set the default folder into which Weave will be installed, if not given the default location will be $c:\weave$. You also get a chance to change this during the installation process.

4. Welcome: Running the Installer . jar file will open up the Weave installation wizard. Click Next on the initial screen.



5. License Agreements: Click on "I accept the terms of the license agreement" to accept the license agreement and click Next.



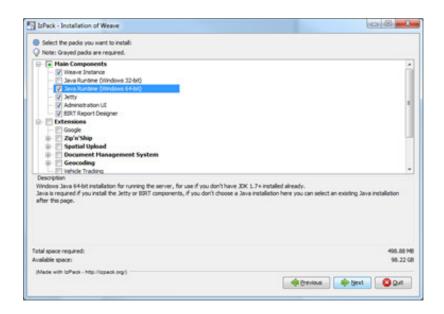
6. Target Path: Select an installation path and click Next. The default path is C:\weave as per Step 3.



7. Click OK in the resulting window to create the Weave directory, then click Next.

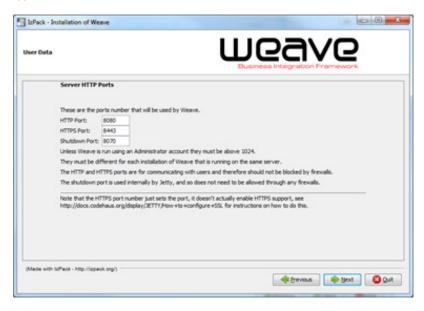


8. **Installation Packages:** You can select the components to install. Choose the *Extensions* that you wish to have access to, and click *Next*.



From Weave 2.6.4, some items that were previously optional to install have been included as part of the *Main Components* item so don't need to be individually selected. This includes the *Google*, *Zip'n'Ship* and *Spatial Upload* items. Also two new extensions have been added - *System Metrics* and *Online Help*.

9. **User Data:** Specify the port numbers for Weave to connect with. Please make sure that these ports are not already in use by other applications. Click *Next*.



10. If needed, you can configure telnet access to Weave's OSGi console, and click Next.



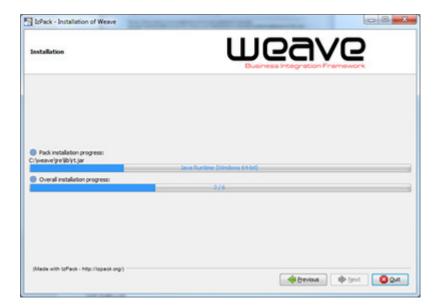
11. The following screen shows the service settings for Weave. Click Next to proceed.



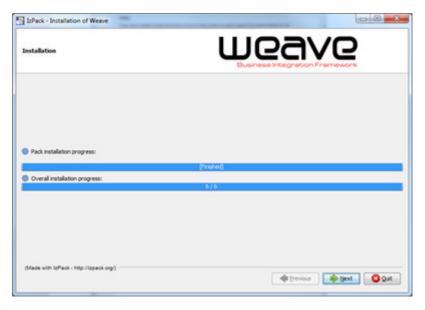
12. In the following screen, configure the proxy settings if applicable, and click Next.



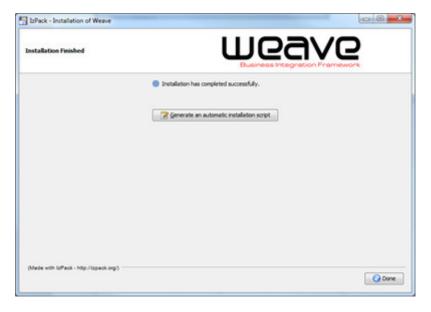
13. The Weave installation will now begin.



14. When the installation is complete, click on Next to proceed.



15. Once the installation is finished you can chose to generate an automatic installation script with all your settings for future use by clicking the button. Else click *Done* to exit the wizard.



16. To complete the installation process, you have to carry out a few minor steps as described below.

- 17. Copy your existing configuration XML files to the new installation (e.g. c:\weave\platform\workspace\config).
- 18. Copy other configuration files that need to be carried over from your old installation to the new one (e.g. C: \weave\platform\workspace\reports, C:\weave\platform\workspace\reports, C:\weave\platform\workspace\config.xml, C:\weave\platform\workspace\config.xml, C:\weave\platform\workspace\config.xml, C:\weave\platform\workspace\reports.
- 19. If you have installed particular JDBC drivers for your existing Weave, copy them into the new installation (c:\weave\platform\workspace\jdbc).
- 20. If you have had functions written specifically for your environment, you'll need to copy the customised bundles (binary files) to the new installation (C:\weave\platform\plugins). Also copy the config.ini from your existing installation as this file lists the bundles to start when Weave starts up (or edit the new config.ini file to include your custom bundles).
- 21. Once you have copied all the appropriate files to your new installation folders:
 - a. Start Weave manually by running c:\weave-2-5-18\startup.cmd (once you've seen that the new Weave can be started manually you can set Weave to run as a service).
 - i. Starting Weave for the first time using startup.cmd will create files owned by the same user that runs startup.cmd, if you later install Weave as a service you may need to manually change the permissions on the Weave installation directory to provide full control to the user the service will run as.
 - b. In the Weave client, click the *About* button as this will give you the software version, confirm that is corresponds with the version you've upgraded to (or check the c:\weave-2-5-18\version.txt file).
- 1 The same process should be followed to start the installation process when installing any additional components that come with their own installer, e.g. the editing extensions, the interoperability extensions or the report designer
- for:
- · Technical details, refer to: Latest Downloads
- · What's New, refer to: What's New

Related articles

- How to Install a New Version of Weave
- How to Upgrade to Java 8
- How to Run a Weave Hotfix
- How to Install a Weave Patch
- How to Run a Weave Software Upgrade

How to Install a Weave Patch

If you have encountered a problem with Weave, you may be provided with a "patch" to rectify just this particular issue.

Installing a patch will keep you on the same version of Weave, it will just update the files specific to that problem.

Step-by-step guide

- 1. Download the patch from the link provided in your support ticket; this will generally be in the form of a .jar file.
- 2. Copy this . jar file into the plugins directory (...\weave\platform\plugins).
 - You can leave the old . jar file in the plugins directory as Weave will look for the latest file when running.
- 3. Stop Weave.
- 4. Delete everything in the ...\weave\platform\configuration directory except for the file config.ini file and felix. fileinstall directory (if it exists).
- 5. Start Weave.
- 6. Test, and confirm that this fixes your issue.
- 7. Notify Weave Support Team of the results of your testing.
- 1 If this patch is relevant to other Weave customers (i.e. not site specific) it will be rolled out as part of a regular update or hotfix.

Related articles

How to Install a New Version of Weave

- How to Upgrade to Java 8
- How to Run a Weave Hotfix
- How to Install a Weave Patch
- How to Run a Weave Software Upgrade

How to Log a Support Ticket for Best Results

When you have a problem with Weave you can create a support ticket via the on-line support system available at support.cohga.com or you can also lodge support requests by email to support@cohga.com. Working out the cause of a problem can sometimes be difficult so the way to get the best result for all (problem report and problem solver) is to provide the most relevant information. This reduces the time that may be spent asking for required information and will result in a faster resolution of the issue. Clearly defining the problem, supplying supporting information, screenshots and configuration files is very helpful to the support team.

Step-by-step guide

- 1. If you are having a problem figuring out how to configure a particular component of Weave, ensure that you include the configuration item you are having a problem with. Include any relevant files containing configuration items in your support request, or if you're including a Support Dump, provide a reference to the configuration items that you're having problems with so that we can locate it within the configuration files.
- 2. If you are experiencing an error in the Weave client, it would help to include:
 - a. Either a screen capture of the error message or the words of the error message (exactly as it appears) if a simple text description doesn't clearly explain what's happening.
 - b. Any output generated in the browser developer console, and ensure that the client is started with <code>;debug</code> appended to the URL, e.g. <code>/weave/main.html;debug</code>
 - i. The developer console can generally be accessed by pressing F12, do this then reload the browser and switch to the "Console" tab and copy the generated output. More details on using the developer console can be found here.
 - ii. **Note:** A Support Dump *does not* include the information from the browser console, so even if you include a Support Dump please perform steps a and b above to include the browser-specific information.
 - c. If you're not going to include a Support Dump, include as much of the weave.log file as possible (up to 8MB in size, preferably compressed if over 2MB).
 - d. And provide a rough time when you performed the operation that showed the problem, so it can be cross-referenced in the w eave.log file.
- 3. If you are having a problem with a BIRT report ensure that you include:
 - a. A copy of the original report design as well as the final report showing the problem.
 - b. Include as much of the weave.log file as possible (up to 8MB in size, preferably compressed if over 2MB) from just after generating the report.
 - c. **Note:** A Support Dump *does* include any report design files and the weave.log file, so you just need to indicate the name of the report that is having the issue if you provide a Support Dump.
- 4. Reread your support ticket or email before sending it and ensure that it clearly explains what you actually mean, remember we're not seeing everything that you are seeing. If necessary, revise the text of your request, perhaps supplementing it with references to the relevant configuration items (if you're including a Support Dump) or the actual configuration items (if you're not including a Support Dump).
- 5. If you are finding that something is not working as you expect, ensure that the part of the weave.log file that you are providing is related to the issue. Include as much of the weave.log file as possible (up to 8MB in size, preferably compressed if over 2MB).
- 6. If you are running Weave version 2.4.15 or later you can execute a dump command at the OSGi prompt (or use the Support Tool from the Weave Administration Tool) that will produce a .zip file containing a collection of relevant support information that would greatly assist the Weave Support Team in resolving your issue.
- More Weave Support information at the Weave Support page.

Related articles

- How to Get a Weave Support Dump using a URI
- How to View the Developer Console
- How to Log a Support Ticket for Best Results

How to Maintain Bookmarks When a Map Engine Changes

When you change a Map Engine any Bookmarks which are based on the Map Engine may no longer work. This may happen when a Bookmark is used to save the layers on/off status in your Table of Contents. If you are planning to change your Map Engine you need to keep in mind that existing Bookmarks may no longer reference the correct layers and so will not show the layers that they should; the layers

may not even exist, or their id's may have changed in the new Map Engine. At version 2.4.25 Weave now uses entry ids so that you may change layer names without breaking the linkage made with existing bookmarks. The following notes will explain this in more detail.

Step-by-step guide

1. The key to maintaining a functioning Bookmark is to keep the entry id for layers that are used (or might be used) in Bookmarks consistent. So if you are changing the name of a Map Engine, or even the name of the layer (as displayed in the Table of Contents) this won't matter as long as you don't change the entry id's in the toc.xml. This is shown in the example below.

As an example from a toc.xml file

```
<entry id='l_mapengine.grids_250m_grid' layer='250m Grid'
label='250m Grid' checked='false'/>
```

The QGis project file, Geoserver Workspace, or ArcMap Document that is setting the display layers can now be changed and the layer name changed as long as the entry id is not changed. Following the example above, the layer is now called <code>grid_250m</code>, but the id has been left as <code>l_mapengine.grids_250m_grid</code>. If the entry was changed as shown below, any Bookmarks referring to that layer would continue to work.

Updated toc.xml file

```
<entry id='l_mapengine.grids_250m_grid' layer='grid_250m'
label='250m Grid' checked='false'/>
```

2. If you are using layers and groups, an entry id should be used for both. The standard is to prefix group ids with a "g_" and layer ids with a "l_", followed by Map Engine name, followed by layer name. This makes it easier to read and generally gives you a unique id across all your layers in all ToC models.

Using entry id for layers and groups

- 3. Weave uses entry ids so that changes can be made to the Map Engines and the bookmarks that are saved will continue to work. An entry id should not be changed once it's been set unless there is no requirement that any existing bookmarks should work.
- 4. This method of storing Bookmarks has not always been used in Weave. Prior to Weave version 2.4.25, layer information stored in bookmarks was based on the Map Engine and layer id from the ToC model. So when a Bookmark was opened the Map Engine and Layer id were read and Weave would use this information to locate the Table of Contents entry that had to be turned off or on. This would result in problems if layers were renamed.

The solution to this was to allow for a unique id to be set in the Table of Contents configuration for each entry and by doing so, remove the dependency on the Map Engine and Layer id. This meant that the underlying layer could be renamed, or even moved to a different Map Engine, and the saved bookmarks would still work. (This explains why the entry id concept was introduced to the Weave ToC model.)

Unfortunately this method of saving Bookmarks relies on the entry id's being added to the ToC model before they're saved. If this was not done then Weave goes back to the old method for a interpreting bookmarks and there's currently no way to "fix" this for older bookmarks.

- Also refer to the following sections of the Weave System Administrator Guides:
 - Client Actions
 - Table Of Contents

Related articles

- How to Create an Image Slider
- · How to Maintain Bookmarks When a Map Engine Changes
- How to Migrate Existing Storage Parameters to Database Storage
- · How to Store Redlines and Bookmarks in a Database

How to Make a Layer Selectable

When you want to make a Layer selectable, you need to need to set it up as as an Active Layer.

Step-by-step guide

Follow the steps described on the How to Add a New Active Layer page. Once the Layer is set up as an Active Layer then graphical and attribute searches can be run on that Layer.

- Also refer to the following sections of the Weave System Administrator Guides:
 Entity
 - Spatial Mapper

Related articles

- How to Add a Layer to the Table of Contents
- How to Add a New Active Layer
- How to Add a New Data Grid
- How to Make a Layer Selectable

How to Make and Use Snippets

A snippet is useful when you want to reuse a piece of client configuration in multiple client configurations. This can be useful when you have more than one client XML file but have common elements across them. Note that snippets can *only* be used for Weave client configuration items and not for Weave server configuration items.

Note that the following examples create a separate file to contain the snippets that are used but this is not a requirement, snippets are just like any other configuration item and can be added to any valid XML configuration file.

Step-by-step guide

- 1. Create an XML file for your snippets. This file can have any name and will depend on the naming convention you have adopted for your XML files. In the following example we will use client_snippets.xml (as a reminder that snippets can only be used for anything in the client configuration file). It is good practice to store this file in the same location as your other client XML files.
- 2. An element that you might want to create a snippet for is the coordinate extents used by Weave (since this is likely to be common across all your Weave clients). In your original client configuration file, this may have looked like:

```
client.xml

client.xml
```

This same text is now put into your snippets file in a slightly altered format. The sample snippets file below contains two snippets, the first one is the one that defines all the coordinate extents.

```
client_snippets.xml
<?xml version="1.0" encoding="UTF-8"?>
<config xmlns="urn:com.cohga.server.config#1.0" xmlns:client="</pre>
urn:com.cohga.html.client#1.0">
        <client:extents id="default extents">
                <initial crs="EPSG:28355" minx="329090" miny="</pre>
5813180" maxx="350260" maxy="5826500" />
                <full crs="EPSG:28355" minx="329090" miny="</pre>
5813180" maxx="350260" maxy="5826500" />
                crs="EPSG:28355" minx="325557" miny="
5811130" maxx="352957" maxy="5826257" />
        </client:extents>
        <client:highlight id="highlight_style">
                 <marker>
                         <!-- more config goes here -->
                 </marker>
                <vector>
                         <!-- and more config that we're not
showing -->
                 </vector>
        </client:highlight>
</config>
```

3. You now need to tell Weave to read this file, so the snippets file needs to be included in the config.xml file.

```
config.xml
<?include client_snippets.xml?>
```

4. The last part is telling your client file that it will have to go elsewhere to get all the parameters it needs for setting up with Weave GUI. This is done by setting a ref tag ("default_extents") which matches the id from the snippets file.

So the client XML file previously had the following lines to set the coordinate extents:

```
client.xml
```

But these five lines have now been replaced with just:

5. In summary, Weave reads the client XML file and gets to the <extents> section and was expecting some coordinate values here but is directed elsewhere to find these values (by the ref tag). Weave knows about the client_snippets.xml file because it's been included it in the config.xml file, so it goes searching and finds a matching id in the client_snippets.xml file and reads the parameters from that file.

The key part is that in the snippets file you have to make sure the type matches what you would have had in the client XML file, the "id" can be anything as long as the same name in used in the client XML file, but the "extent" from "client:extents" is called the type and it is defined by Weave, and was used in the client XML file.

_

For further details on snippets refer to: Client Snippets

Related articles

• How to Make and Use Snippets

How to Migrate Existing Storage Parameters to Database Storage

The Weave Server can store information regarding the user's Weave usage, for example the bookmarks that a user saves. This information is stored on the server so that when the user begins a new session, Weave can access these details. There are also some system-wide details that Weave stores and retrieves. As an alternative to storage in the Weave Server, this information can be stored in a database (being any data source configured within Weave).

If you are using Weave's internal system for managing storage parameter, but want to move to database storage, then it's likely that you'll want to migrate your existing storage parameters. To migrate these parameters follow the steps below.

Step-by-step guide

1. At the OSGi prompt, use the ustorage save and storage save commands to write the user storage and server storage parameters out to text files, e.g.

```
ustorage save c:/temp/user-store-dump.txt
storage save c:/temp/server-store-dump.txt
```

If a location is specified (as shown above), the contents will be saved to that file otherwise the content will be saved to an internal file location.

2. Switch over configuration so that a database is used for storage. For details about configuring Weave to use a database for user storage refer to this How-to page.

3. At the OSGi prompt, use the ustorage load and storage load commands to read the user storage and server storage parameters from the text files created in Step 1, e.g.

```
ustorage load c:/temp/user-store-dump.txt
storage load c:/temp/server-store-dump.txt
```

If a location is specified (as shown above), the contents will be loaded from that file otherwise the content will be loaded from an internal file location.

- 4. Open Weave and check that the previously stored parameters (such as Bookmarks, save Redlines, etc.) are available.
- Also refer to the following sections of the Weave System Administrator Guides:
 - Client Storage

Related articles

- How to Maintain Bookmarks When a Map Engine Changes
- How to Migrate Existing Storage Parameters to Database Storage
- · How to Store Redlines and Bookmarks in a Database

How to Run a Weave Hotfix

If you already have a version of Weave running and have encountered a problem, you may be asked to run a "hotfix" if it's been determined that your issue has already been fixed and was released as part of a hotfix. A hotfix contains one or more bug fixes that have been found since the last release.

Running a hotfix is similar to running a Weave update; the steps to follow are provided below.



1. This page is valid if you are already running a 2.5 version of Weave.

Step-by-step guide

- 1. Download the hotfix from the link provided in your support ticket or from the Weave download page (in the Hotfixes section, choose the hotfix for the version of Weave you are running).
- 2. Stop the existing Weave service.
- 3. Delete your weave.log (..\weave\logs) file so you can start with a clean log file for the hotfix testing.
- 4. Optionally make a backup of Weave plugins and features folders (in case you need to roll-back to your original Weave). The hotfix will just replace the files in the folders it needs to update.
- 5. Then either
 - a. Run the hotfix jar file without any extra parameters and I'll work the same way as the Weave installer and you have to choose the current Weave directory, e.g.

```
java -jar c:\downloads\weave-hotfix-2.5.21.9.jar
```

b. Run it with the existing Weave directory as a command line parameter and it'll run, update the directory and exit without any interaction.

```
java -jar c:\downloads\weave-hotfix-2.5.21.9.jar c:\weave-2-5-21-dev
```

If you don't have java installed on the server then you'll need to use Weave's own java to run the hotfix so it'll be something like:

```
cd c:\weave-2-5-21-dev\jre\bin
java -jar c:\downloads\weave-hotfix-2.5.21.9.jar c:\weave-2-5-21-dev
```

- 6. Restart your Weave service and test the fix.
- 🚯 It's best to apply the hotfix to your Weave development environment (DEV) and test it, before applying to your Weave production environment (PROD) but generally hotfixes are minor changes and just update one or two files in the plugins directory.
- 🚯 The best practice to adopt for hotfixes is to apply them when they are released for the version you are running. Hotfixes are generally small fixes and you'll generally be better off when you install them.

The fixes provided in each hotfix are documented on the What's New page.



Related articles

- · How to Install a New Version of Weave
- How to Upgrade to Java 8
- How to Run a Weave Hotfix
- · How to Install a Weave Patch
- How to Run a Weave Software Upgrade

How to Run a Weave Software Upgrade

If you already have a version of Weave running, you can upgrade it to the latest version released.



🦺 This page is valid if you are already running a 2.5 version of Weave and are looking to upgrade to a later minor release (a point release).



You should perform the upgrade as the same user that performed the initial installation, or who is the owner of the Weave installation directory, otherwise the updater may not be able to modify/delete existing files.

Step-by-step guide

- 1. Download the Updater file as directed by the new release email from the Weave Support System or from the Latest Downloads page
- 2. If you're running Weave as a service, stop the existing Weave service. If Weave is not running as a service, shut it down (e.g. run c: \weave\shutdown.cmd).
- 3. The Updater file is a .jar file so it needs Java to run. If you don't have Java installed you can use the Java executable that was installed with your current installation of Weave (e.g. C:\weave\jre\bin).
- 4. It is recommended that you make a copy of your existing Weave installation before the upgrade. You can then remove the backup once you are satisfied that the new installation is ready.

The updater will change the content of the ...\weave\platform directory, but it will not touch any of your configuration files (it will also update ...\weave\version.txt).

The steps below give you an example of how this would be done in a Windows environment (assuming the current version is 2.5.18).

```
Current Weave folder = c:\weave
Copied Weave backup folder = c:\weave-2-5-18
Weave downloaded updater file = c:\downloads\weave-updater-2.5.29.jar
```

- a. Copy existing Weave folder, c:\weave, to backup Weave folder, c:\weave-2-5-18
- b. Delete all the log files from the C:\weave\logs folder.
- c. On a Windows Command Line, run:

```
cd c:\weave\jre\bin
java -jar c:\downloads\weave-updater-2.5.29.jar c:\weave
```

This will perform an automated update, alternatively you can use the Weave update wizard which will take you through the update (including path to Weave instance to upgrade) if you don't include the Weave directory in the command line. For example:

```
cd c:\weave\jre\bin
java -jar c:\downloads\weave-updater-2.5.29.jar
```

- 5. If you're running Weave as a service then restart the service, or use startup.cmd if you're not, and test that the updated instance starts and works correctly.
- 6. Once you have tested the new version of Weave you can remove the old backup.



for:

- 1. Technical details, refer to: Latest Downloads
- 2. What's New, refer to: What's New

Related articles

- · How to Install a New Version of Weave
- How to Upgrade to Java 8
- How to Run a Weave Hotfix

- How to Install a Weave Patch
- How to Run a Weave Software Upgrade

How to Serve Additional Web Content

Static Directory

As of Weave 2.6.7 anything stored in the ...\weave\platform\workspace\static\ directory will be available for anyone to access via the URL http(s)://<hostname>:<port>/weave/static/.

This is provided as a quick and easy method to serve additional web content. You can store any content here, HTML files, images, stylesheets, either directly or in sub-directories.

Missing Files

If a user requests a file that does not exist, the underlying application server will handle it as a regular "404 not found" response. If you wish to provide your own content in this situation you can create a 404.html or 404.htm file and store it in the same directory and the content from that file will be returned instead. In addition to 404.html or 404.htm you can also provide other 404 files with different extensions, e. g. 404.png, that will be provided to the user if they request a file of that type and it doesn't exist. The files with different extensions will take precedent over the HTML versions if one is found. Finally, the search for the not found file proceeds up the file hierarchy until a match is found, first for a match with the same file type, then for the html/htm version, this way you can provide a single file to be used by any subdirectories.

Access Control

Out of the box there is no access control on the content served beyond what may be configured with the general Weave security infrastructure, e.g. security.xml, SAML, etc, but there is support for .htaccess files to be included in a directory or one of its parents. The htaccess file format is a standard that provides configuration options for web server content but only the parts related to access control are supported in this situation. Weave will look for a .htaccess file in the same directory as the requested content and proceed up the file hierarchy until it finds one. If it doesn't find a .htaccess file there is no additional access control on the content, if a .htaccess file is found but it is invalid then access will be denied to all users.

The options supported in the .htaccess file are:

- require Only one of the following is allowed, and if it is not provided then the user plays no part in determining if the content is
 accessible.
 - require user username [username2] ... [usernameN]
 - The username of the user requesting the content must be one of the listed usernames
 - require group acl [acl2] ... [aclN]
 - The user requesting the content must pass one of the listed Weave configured ACL's
 - require valid-user
 - The user requesting the content must be logged in, and cannot be an anonymous user
- allow from/deny from These allow you to restrict access based on IP address. The listed IP addresses can be a partial IP address,
 e.g. "192.168.0." or "172.16." to match a range of IP addresses, only one "allow from" and one "deny from" is allowed.
 - allow from ip [ip2] ... [ipN]
 - allow from all
 - deny from *ip* [*ip2*] ... [*ipN*]
 - deny from all
- order Set the order in which the allow and deny checks are performed, the allow/deny lists are processed in this order with the last one that matches the users IP address winning.
 - order allow,deny
 - The allow directives are evaluated before the deny directives
 - This is the default if not specified
 - You can use this to allow access to everyone, allow from all, then selectively deny access, deny from 192.168.0.12
 - order deny,allow
 - The deny directives are evaluated before the allow directives
 - You can use this to deny access to everyone, deny from all, then selectively add access, allow from 192.168.
- satisfy This indicates if both user and IP checks must pass or either one must pass. This only applies if both user and IP address checks are configured.
 - satisfy any
 - If the IP address check passes or the user check passes then the user can access the content
 - This is the default if not specified
 - satisfy all
 - If the IP address check passes and the user check passes then the user can access the content

No other configuration options will be processed in the .htaccess file.

Jetty

This page applies to Weave 2.5 which is using Jetty 8.

For Weave 2.6, which is using Jetty 9, refer to this page Configuring Static Content Deployment

In a default Weave installation Jetty is used as the underlying Web Application server, which includes a web server. This web server can be leveraged to serve additional content besides that required by Weave (for example if you need to host images for embedding within a Weave client).

The content will be served and available to anyone who can access the server and has no access restriction (by default). Additionally, the Weave server itself has nothing to do with the content, it is being served directly by Jetty as a web server.

Instructions

How to setup a new context:

1. Edit ...\weave\jetty.ini to enable jetty-contexts

- 2. Create a directory to server the content from, in this case it will be within the Weave installation directory, e.g.
 - a. mkdir /opt/weave-2.5/public
 - b. mkdir c:\weave-2.5\public
- 3. Create a new xml file in the \dots \weave\jetty\contexts\ directory to serve the content
 - a. For example, create one called public.xml to serve the directory we just created

Example context file

```
ResourceHandler">
      <Set name="cacheControl">max-age=3600,public</Set> <!</pre>
-- some caching options, change as appropriate -->
    </New>
  </Set>
</Configure>
```

- b. Here we set the resourceBase value as being relative to the jetty directory, since we know we created it under the Weave directory, but you can change it to an absolute path if the content is stored elsewhere.
- 4. Access the content from the same server and port that Weave is accessed from, but with the new context name, in our example /pu blic, e.g. assuming a file called image1.png is stored at ...\weave\public\image1.png
 - a. http://weaveserver:8080/public/image1.png

Related articles

- How to Serve Additional Web Content
- · How to Include an Image in a Data Grid or Map Tip

How to Set a System Property

This content applies to Weave 2.5.

Weave 2.6 system properties should be set in a file in the \dots \weave\jetty_base\start.d\ directory.

There are various internal settings within Weave that globally alter the way the server functions. These settings can be altered by setting a "system property" which is read when the server starts up.

Occasionally you'll have to set a system property to alter the way the server behaves, to address a support ticket for example, and here we'll describe how that can be done.

Depending upon how you start Weave there are two places where system properties can be set. If you start Weave as a service the properties are set in ...\weave\service\conf\wrapper.conf, and if you start Weave via startup.cmd or startup.sh the properties are set directly in that file.

No matter where the system property is defined, wrapper.conf or startup.cmd/startup.sh, what we will accomplish here is the passing of a new command line parameter to the Weave server process. The command line parameter we're trying to pass to the server process is specified in the format -Dname=value. The -D tells the Java process that we're defining a new property, name is the name of the property we're creating and value is what we want to set it to. As we do not start the Weave server process manually and rely on the service wrapper or startup.cmd/startup.sh to do it for us, what we're outlining here is how we tell them to pass the new command line parameter to the process when it starts.

The setting of a system property, as described here, is only a subset of the things we can do with command line parameters set in the wrapp er.conf or startup.cmd/startup.sh, but this How-to page will only cover setting system properties.

Instructions

Setting a system property in wrapper.conf

- 1. Open ...\weave\service\conf\wrapper.conf in the text editor of your choice.
- 2. Locate the last additional property in the file (they are usually defined at the end of the file)
 - a. The "additional properties" are those listed in the form wrapper.java.additional.## = ...
- 3. Find the number of the last set additional property, and increase it by one.
- 4. Create a new additional property, by duplicating an existing one, increment the property number, and set the value to -Dname=valu
 - a. Note that it is important that you increment the property number, in the example below we use 22, which is assuming the previous largest property number was 21, but it might be different in your wrapper.conf.
- 5. Save the file and restart Weave.

Setting the weave.spatial.operation.limit system property to 500

```
wrapper.java.additional.22 = -Dweave.spatial.operation.limit=500
```

Setting a system property in startup.cmd

- 1. Open ...\weave\startup.cmd in the text editor of your choice.
- 2. Locate the last SET JAVA_OPTS line in the file (they are set through the file and the last one would usually be defined near the end of the file).
 - a. The properties are those listed in the form SET JAVA_OPTS=%JAVA_OPTS% -D...=...
 - b. There are a number of these lines through the file, that concatenate different system properties into a single JAVA_OPTS variable that is then passed to the Java process at the end of the file.
- 3. Create a new SET JAVA_OPTS line after the last one with the format:
 - a. SET JAVA_OPTS=%JAVA_OPTS% -Dname=value
- Save the file and restart Weave.

Setting the weave.spatial.operation.limit system property to 500

SET JAVA_OPTS=%JAVA_OPTS% -Dweave.spatial.operation.limit=500

Setting a system property in startup.sh

- 1. Open ...\weave\startup.sh in the text editor of your choice.
- 2. Locate the last JAVA_OPTS="\$JAVA_OPTS ..." line in the file (they are set through the file and the last one would usually be defined near the end of the file).
 - a. The properties are those listed in the form $\texttt{JAVA_OPTS} = \texttt{"} \texttt{\$JAVA_OPTS} \texttt{D...} = ... \texttt{"}$
 - b. There are a number of these lines through the file, that concatenate different system properties into a single JAVA_OPTS variable that is then passed to the Java process at the end of the file.
- 3. Create a new JAVA_OPTS line after the last one with the format:
 - a. JAVA_OPTS="\$JAVA_OPTS -Dname=value"
- 4. Save the file and restart Weave.

Setting the weave.spatial.operation.limit system property to 500

JAVA_OPTS="\$JAVA_OPTS -Dweave.spatial.operation.limit=500"

1 Example of customised wrapper.conf with weave.spatial.operation.limit set to 500 ... there's more content before here

genConfig: further Properties generated by genConfig

placeHolderSoGenPropsComeHere=

wrapper.java.app.jar = .Vstart.jar

wrapper.app.parameter.1 = --ini=..Vjetty.ini

wrapper.java.additional.1 = -server

wrapper.java.additional.2 = -XX:PermSize=64M -XX:MaxPermSize=192M

wrapper.java.additional.3 = -XX:+HeapDumpOnOutOfMemoryError

wrapper.java.additional.4 = -Dfile.encoding=UTF-8

wrapper.java.additional.5 = -Dhttp.agent=weave/2.5 -Dhttpclient.useragent=weave/2.5

wrapper.java.additional.6 = -Djava.awt.headless=true

wrapper.java.additional.7 = -Djava.net.preferIPv4Stack=true

wrapper.java. additional. 9 = -Dorg. geotools. referencing. force XY = true

wrapper. java. additional. 10 = -Dorg. apache. jasper. compiler. disable jsr 199 = true

wrapper.java.additional.11 = -Dosgi.clean=true

set the console port for telneting into Weave.

wrapper.java.additional.12 = -Dosgi.console=9001

wrapper.java.additional. 13 = -Dweave. spatial. operation. limit=500

Example of customised startup.cmd with weave.spatial.operation.limit set to 500

... there's more content before here

REM Force coordinate axis order for compatability SET JAVA_OPTS=%JAVA_OPTS% -Dorg.geotools.referencing.forceXY=true

REM Uncomment the line below to allow a debugger to be attached

REM SET JAVA_OPTS=%JAVA_OPTS% -Xdebug -Xnoagent -Djava.compiler=NONE -Xrunjdwp:transport=dt_socket,server=y, suspend=n,address=5000

REM Set Jetty options

SET JAVA_OPTS=%JAVA_OPTS% -DSTOP.PORT=%{jetty.shutdown.port} -DSTOP.KEY=seekrit

SET JAVA_OPTS=%JAVA_OPTS% -Dweave.spatial.operation.limit=500

cd jetty

"..\jre\bin\java.exe" %JAVA_OPTS% -jar start.jar --ini=..\jetty.ini

popd

Example of customised startup.sh with weave.spatial.operation.limit set to 500

... there's more content before here

Force coordinate axis order for compatability
JAVA_OPTS="\$JAVA_OPTS -Dorg.geotools.referencing.forceXY=true"

Uncomment the line below to allow a debugger to be attached #JAVA_OPTS="\$JAVA_OPTS -Xdebug -Xnoagent -Djava.compiler=NONE -Xrunjdwp:transport=dt_socket,server=y,suspend=n, address=5000"

Set Jetty options

JAVA_OPTS="\$JAVA_OPTS -DSTOP.PORT=%{jetty.shutdown.port} -DSTOP.KEY=seekrit"

JAVA_OPTS="\$JAVA_OPTS - Dweave.spatial.operation.limit=500"

cd jetty

../jre/bin/java \$JAVA_OPTS -jar start.jar --ini=../jetty.ini

cd ..

Related articles

- How to Get a Weave Support Dump using a URI
- · How to Get the Most From Weave Logging
- How to Serve Additional Web Content
- How to Set a System Property
- How to fix a PKIX Path Building Failed Error

How to Set up Non-spatial Editing

Weave can be used for the editing of non-spatial data. The non-spatial data can be standalone tables, related table or entity tables.

This page will explain how to set up Weave for the editing of standalone tables. It is a simple example and many more elements can be added by referring to the Weave Administration Guide.

Although the editing functions require an additional Weave licence there are many advantages to using Weave for editing as well as an enquiry and reporting tool. User's will have the advantage of using the a system with which they are familiar, rather than introducing a new, more complex application to them.

Step-by-step guide

- 1. Add the Editor grid to your Weave client.
 - a. Add the following to your client XML file and set the <location> depending on where you want the grid to appear in the Weave window:

Extract from client XML file

- 2. Create a new XML file for non-spatial editing. It can be called anything, e.g. edittable.xml.
- 3. Update you config.xml file to include the newly created XML file so that it is read by Weave.

```
<?include edittable.xml?>
```

4. In edittable.xml you need to put in details of the table you want to edit. You can either do this by basing it on the samples given in the Weave Administration Guide or use the Weave OSGi or Weave Admin Tool Console tool to help. There are a number of "editor" commands that you can use to check your edit setup. You can also generate an editor config for the table named using the editor conf command as shown below.

```
editor conf <datasource>
```

- 5. Use the output from the "editor" command (above) in your edittable.xml file. Add additional tags if needed.
- 6. Restart Weave.
- 7. Open the Console Tool in the Weave Admin Tool. If you type in editor the Editor that you just set up should be listed (if it's all set up correctly).
- 8. Once you've done all that, open your Weave client and you should have an editing grid appear.
- 9. Double click on one of the cells to update the cell, or use the *Update* button. Or use the *Create* and *Delete* buttons.
- These instructions assume you have installed the Weave Edit bundles as per the download page.

Also refer to the following section of the Weave System Administrator Guides for more information:

Non-spatial Editing Introduction

Related articles

- How to Set up Non-spatial Editing
- How to Set up Spatial Editing using the Weave Edit Extension

How to Set up Spatial Editing using the Weave Edit Extension

Weave can be used for the editing of spatial data. This allows the editing of geometry (spatial) and attributes (non-spatial) for an entity.

This page will provide a simple example of an editing setup however many more elements can be added. A full description of this setup is in the Weave Administration Guide. The editing setup is completely configurable so in order to get a meaningful result you need to have a good understanding of the workflow required for the editing operations.

Although the editing functions require the Weave Edit Extension licence, there are many advantages to using Weave for editing as well as your enquiry and reporting tool. Users will have the advantage of using the system with which they are familiar, rather than introducing a new, more complex application to them.

Step-by-step guide

- 1. Add the Editor panel to your Weave client.
 - a. Add the following to your client XML file and set the <location> depending on where you want the panel to appear in the Weave window:

1	I I	

2. Add the Edit plugin to client config XML file.

- 3. Create a new XML file for the spatial editing. It can be called anything, e.g. edit.xml.
- 4. Update your config.xml file to include the newly created XML file so that it is read by Weave.

```
<?include edit.xml?>
```

- 5. In edit.xml you need to put in the details of the layer you want to edit. You can do this by basing it on the samples given in the Weave Administration Guide.
- 6. Restart Weave.
- 7. Once you have done the above steps, open your Weave client and you should have an editing panel appear. This panel provides the actions required to initiate editing and the tools required to perform the spatial edit operations.
- 8. To ensure your editing is able to operate:
 - a. If the underlying spatial engine is a database, ensure that the permissions on the database are correct so that edits can be made to the relevant table.
 - b. You may need to specify the geometry metadata for any edit table so Weave knows its projection. This is done by adding an entry in the spatialengine.xml file or the geometry metadata table.
 - c. To ensure that newly created entities are available for use once created, ensure that the spatial mapping has dynamic set to true for the entity.
- 1 These instructions assume you have installed the Weave Edit bundles as per the download page.

Also, refer to the following section of the Weave System Administrator Guides for more information:

• Spatial Editing Introduction

Related articles

- How to Set up Non-spatial Editing
- How to Set up Spatial Editing using the Weave Edit Extension

How to Store Redlines and Bookmarks in a Database

By default Weave stores information about Redlines, Bookmarks etc. in an internal Weave data source (system.datasource) however this information can be stored in a database instead. The advantage of storing this information in a database is that it stores it independently of the Weave installation. Also it allows items to be deleted that have been created by a specific Weave user (for example, if someone leaves the organisation).

Step-by-step guide

- 1. Define a Weave data source for the database where you want to store the Redlines, Bookmarks etc.
 - a. If Weave is running from the command line, add a reference to the data source in the startup.cmd file to set the database that should be used for storage.

Extract from startup.cmd file

```
REM Set data storage to SQL Server DB instead of Weave internal DB
SET JAVA_OPTS=%JAVA_OPTS% -Dstorage.datasource=gis_db
```

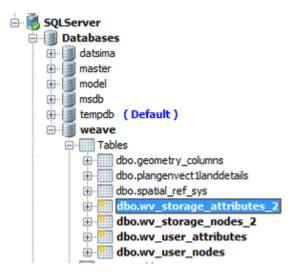
where "gis_db" is an id in the datasource.xml file as:

b. If Weave is running as a Windows service, add a reference to the data source in the service/conf/wrapper.conf file.

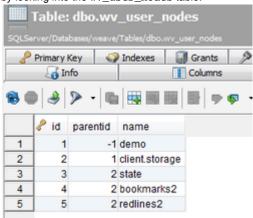
```
# Set data storage to SQL Server DB instead of Weave internal DB
```

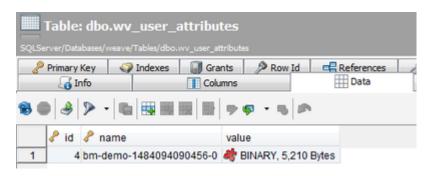
wrapper.java.additional.22 = -Dstorage.datasource=gis_db

- 2. Stop the Weave service and clean out the Eclipse folders in the ../weave/platform/configuration folder:
 - a. org.eclipse.core.runtime
 - b. org.eclipse.equinox.app
 - c. org.eclipse.osgi
 - d. org.eclipse.update
- 3. Start the Weave service. Once Weave is started the wv_* tables will be created. These tables will be empty:
 - a. wv_storage_attributes
 - b. wv_user_attributes
 - c. wv_user_nodes



4. Open the Weave application and add a new Bookmark. This Bookmark will be saved into the database and you will be able to see it by looking into the wv_user_nodes table.





- 5. The following steps will ensure that everything is working correctly.
 - a. Stop the Weave service.
 - b. Repeat Step 2 to make sure that Weave will read the Bookmark from the database.
 - c. Start the Weave service.
 - d. Open the Weave application and the saved Bookmark will be available.
- Also refer to the following sections of the Weave System Administrator Guides:
 - Client Storage

Related articles

- How to Maintain Bookmarks When a Map Engine Changes
- How to Migrate Existing Storage Parameters to Database Storage
- How to Store Redlines and Bookmarks in a Database

How to Test Your Weave Application Integrations

When you are using Weave with an external application, it's sometimes useful to see what parameters are being passed to or from Weave to the external application. This can help if you're not getting the behaviour you were expecting and you need to debug the application integration.

Step-by-step guide

- 1. Download DebugView which is an application that lets you view debug output on your local computer.
- 2. Run DebugView on the PC where the Weave Client is running and not on the Weave server.
- 3. Start the Weave client on your computer.
- 4. Once *DebugView* is running, make a selection in Weave and use the application integration button (e.g. if you are linking to Pathway, select a property or parcel and press the link to Pathway button).
- 5. The DebugView window (or log file) will display debug messages sent from or to the Weave client. These messages should include instances of "Weave" and the application you are linking to (e.g. "Pathway"). In the example given below, Weave is sending this message to Pathway: Send(DISP, 0, parc, , N, 9800)

Sample DebugV	lew report	
00000007	19.35297966	[3348] Weave.Pathway:
Initialize v	1.1.2	
8000000	19.35331726	[3348] Weave.Pathway: Getting
Pathway.Appl	ication	
00000009	19.35530472	[3348] Weave.Pathway: Got
Pathway.Appl	ication	
00000010	19.35533524	[3348] Weave.Pathway: Pathway
is available		
00000011	19.35545540	[3348] Weave.Pathway: Send
(DISP, 0, parc	,,N,9800)	
00000012	19.35548782	[3348] Weave.Pathway: Getting
Pathway.Appl	ication	
00000013	19.35642242	[3348] Weave.Pathway: Got
Pathway.Appl	ication	
00000014	19.35664368	[3348] Weave.Pathway:
Sent		

6. The debug information that is reported will help you determine whether the correct details are being sent to or from the Weave client.

1 Futher information on passing parameters to other applications from Weave refer to: Application Integration

Related articles

- · How to Get the Most From Weave Logging
- How to Test Your Weave Application Integrations
- How to Clear Your Browser Cache

How to Update Weave Help Content

Weave Help can be customised for your project/implementation of Weave rather than using the default Weave Help pages.

Instructions

- 1. Create a temporary directory that has the same name as the help content bundle, e.g. $c:\theta.content_x.y.z$
- where: x.y.z will be the version number of the bundle, not "x.y.z"

 2. Copy the platform\plugins\com.cohga.client.weave.help.content_x.y.z.jar file into the directory you just created.
- 3. Change the file extension from *jar* to *zip*.

- 4. Extract the zip file into the directory. This should create client\ and META-INF\ directories.
- 5. Delete the original .zip file.
- 6. You can now start modifying the help pages as standard HTML pages. Each modification will require a number of steps as the menu, icon and page content may need to be created/modified.
- 7. Firstly we'll add a new item to the menu by modifying the HelpContent.js file under the client\js\actions\ folder. To add an entry (e.g. Example) to the Miscellaneous menu, the following entry needs to be added to the JavaScript file:

```
Weave.HelpMgr.add("Miscellaneous", "Example", 'resources/weave
/help/html/misc/Example.html', 'icon-map');
```

- 8. The icon used for this new menu item is specified at the end of the entry added above. The icons used are the same as any icons used in Weave. Refer to the *Icons* section on this page for further details on icon use.
- 9. The new entry requires a corresponding HTML file and it will also use an image on the page. The HTML file (e.g. Example.html) is placed under the client\resources\weave\help\html\ folder or sub-folder. The image (e.g. example.jpg) is placed under the client\resources\weave\help\images\misc\ folder or sub-folder.
- 10. The recommended process for creating your customised help page is to copy an existing help HTML page and modify it. The result could be as shown below.

```
<div class="body-wrap">
  <hl>Example header</hl>
  <div class="description">
    Help text goes here.
  </div>
  <div class="help-image">
    <img src="resources/weave/help/images/misc/example.jpg"/>
  </div>
</div>
</div>
```

- 11. Once you've modified the help files as much as you require, move the entire updated com.cohga.client.weave.content_x. y.z\ directory to the platform\plugins\ directory and delete the original com.cohga.client.weave.content_x.y.z.jar file.
 - a. For Weave 2.6 and later versions, this updated com.cohga.client.weave.content_x.y.z\ directory could be moved into the platform\custom\plugins\ directory.
- 12. Delete all files from the configuration directory (c:\weave\platform\configuration) except the config.ini and feliex. fileinstall files.
- 13. Restart the Weave service.
- 14. Open the Weave client to verify that the new help content is available.
- Refer to the Weave Configuration Reference for details on how to set up the Help tool: Client Actions Help

Related articles

How to Update Weave Help Content

How to Upgrade to Java 8

This page only applies to Weave 2.5 as Weave 2.6 is already using Java 8

Weave 2.5.x ships with Java 7 (the current version of Java when Weave 2.5.0 was first released) but it also works with Java 8 (as of July 2019 it does not work with Java 9 or later) and there are occasions where Weave should be updated to use Java 8 which can be done manually by following this process.

Because of a licensing change by Oracle for their Java version 1.8.0.191 is the latest version of the Oracle JRE (Java Runtime Environment) that can be used without a license from Oracle (unless it's for development or personal use) so this how-to will outline how to use that version, however you can use later versions from Oracle, if you obtain the correct license from them. Alternatively, and as we've done with Weave 2.6, you could use a JRE from another vendor that does not come with any licensing restrictions (such as OpenJDK).



8

- 1 This page covers upgrading to Oracle Java 8 for 64-bit computers only.
- 1 This page assumes that you're upgrading from the JRE installed as part of the Weave installation, which will be in the jre directory where Weave is installed.

If you did not select to install the JRE when you installed Weave then this process will be different.

Instructions

- 1. Download the updated JRE archive
 - a. Windows
 - b. Linux
- 2. Extract the downloaded archive to the Weave installation root directory
 - a. For example if Weave is installed at d:\weave-2.5\ you would extract it directly into that directory, it will create a new jre 1.8.0_191 directory at the location where it is extracted, in our example at d:\weave-2.5\jre1.8.0_191\.
- 3. Ensure Weave is not running
- 4. Rename the existing jre directory, for example to jre1.7.0_45
 - a. Continuing our example this would rename d:\weave-2.5\jre\ to d:\weave-2.5\jre1.7.0_45\
- 5. Rename the new jrel.8.0_191 directory to jre
 - a. Continuing our example this would rename d:\weave-2.5\jre1.8.0_191\ to d:\weave-2.5\jre\
- 6. Restart Weave and test

Alternative

If you already have a Java 8 JRE (or JDK) available on the server running Weave you can use that rather than downloading and installing the above JRE.

To do this you should edit startup.cmd or startup.sh and alter the java command, near the bottom of the file, to point to the java executable in the alternative Java 8 JRE.

If Weave is running as a service then the wrapper.java.command value in service\conf\wrapper.conf should be updated to point to the java executable in the alternative Java 8 JRE.

Note: that if you have spaces in the path for the alternative Java 8 JRE you may need to wrap the value in double quotes.

1 You might notice that when you start Weave after upgrading to Java 8 it will complain about two parameters that are no longer supported by Java 8, but were included in the startup parameters for Weave.

These are just warning and will not cause any issues but if you wish to remove them then edit startup.cmd (or startup.sh) and delete the parameters -XX:PermSize=64M -XX:MaxPermSize=192M form the JAVA_OPTS value (it should be near the top).

Also they should be removed from the wrapper.conf file, in the Weave $service \setminus conf \setminus directory$, if Weave is run as a service.

By default they're set near the end of the file as one of the wrapper.java.additional.# properties, and you should remove the two startup parameters, -XX:PermSize=64M - XX:MaxPermSize=192M.

If this results in the particular additional parameter no longer having any value (as by default these two settings are provided as a single additional parameter so removing them will remove the entire additional parameter) you should completely remove that additional parameter and re-number the following entries so that their numbering continues to be sequential. For example the current version of wrapper.conf has these parameters set by wrapper.java.additional.2, so you would completely delete that line and then change wrapper.java.additional.3 to wrapper.java.additional.2, wrapper.java.additional.4 to wrapper.java.additional.3, etc.

Related articles

- · How to Install a New Version of Weave
- How to Upgrade to Java 8
- How to Run a Weave Hotfix
- How to Install a Weave Patch
- How to Run a Weave Software Upgrade

How to Use a List in an Attribute Search

When you have an existing query in the *Search* panel of Weave, you can define search parameters as lists rather than free-form text or check boxes. A list will perform an "exact" search in your database so can make searching easier.

Step-by-step guide

- 1. Identify which Active Layer and field on that layer you want to have appear as a list in your Search panel.
- 2. Add a Data Definition to your data.xml file. Set the XML Attributes of name and label as shown in the example below and set the column XML Attribute to the column in the table to be read as the values in the list. The XML Attributes of name and label only need to be configured if you want to one column to be displayed in the list but a different column to be used in the search.
- 3. Add a comment in your XML file to indicate that the following section is used to define Query or Search Lists. This will make it easy to identify all your query list definitions in your XML file.

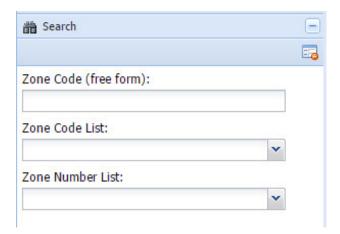
The example below creates a list of Planning Zone codes.

- 4. In your search.xml file, identify the section of code that relates to the existing Search you will be modifying.
- 5. Add a search parameter definition that will make use of the list defined in Step 3. The key in part of this definition is: controlType= 'listbox'. And ensure that the dataset parameter is set to the list id defined above.

The example below uses the list of Planning Zone codes created above.

```
<search:parameter id='zonescodelist' label='Zone Code List'
controlType='listbox' column='mann.zones.zone_code'
dataset='zonecodes' labelcolumn='label' valuecolumn='value'/>
```

6. You may need to refresh your browser to see this list in your Search panel.



- Also refer to the following sections of the Weave System Administrator Guides:
 - Attribute Search
 - Spatial Search
 - Stored Procedure Search

Related articles

- · How to Add a New Search
- · How to Use a List in an Attribute Search

How to Use a Shapefile in Weave

Cohga does not recommend using shapefiles in your Weave setup however they can be useful for use in the short term. Our view is always that corporate data should be stored, managed, accessed and edited through an RDBMS however we believe that shapefiles have a place.

Things to note when using shapefiles:

- 1. They are not recommended for broad scale corporate use.
- 2. The best performance will be achieved when the shapefiles are on the Weave server.

When using shapefiles, they can be used in Weave's Mapping Engine, Spatial Engine and Data Source. The example on this page covers all these items though they do not all need to be used - pick and chose the parts you need for your setup.

When using shapefiles, we use a spatial data connection to expose the tables via the Spatial Engine, rather than using a datasource. This will give the same result as a datasource as the Spatial Engine reads the shapefile's DBF file to access the attributes.

Step-by-step guide

- 1. If you want to use the shapefile in the Map View as a layer then:
 - a. Add the shapefile to the map service so that it will be rendered, e.g. to the ArcMap document, QGIS project, or GeoServer workspace, then set symbology and publish map service.
 - b. Add the layer to the Table of Contents (ToC), as you would for any other layer.
- 2. To use the shapefile as a Spatial Engine:
 - a. Create a new Spatial Engine for the shapefile.

Spatial Engine

b. Add an entity and spatial mapper.

Entity and Spatial Mapper

```
am_drainagepits
<key>fid</key>
</mapping>
</mapper>
```

c. Attach the entity to the entry in the ToC (otherwise the entity will exist but not be connected to a layer).

d. Note, if the projection of the data is not being picked up then you might need to change the Spatial Mapper to explicitly state the projection.

- 3. And finally, to use the shapefile as a Data Source to access its attributes:
 - a. Create a new Data Definition for the entity.

Data Definition

To begin with, don't add any tags, just let all the attributes appear in the Data Grid. Once the shapefile is working as expected, add a Data Definition as for any other Entity as shown below.

Data Definition

```
<data:datadefinition id='dd_drainagepit'>
         <spatialdataconnection entity="drainagepits">
                                               label='Unit
                  <parameter name='unitid'</pre>
Id'
      column='unitid'/>
                                               label='Plan
                  <parameter name='planno'</pre>
           column='planno'/>
Number'
                                               label='Sheet'
                  <parameter name='sheet'</pre>
column='sheet'/>
                  <parameter name='pitno'</pre>
                                               label='Pit
Number'
            column='pitno'/>
                                               label='Type'
                  <parameter name='type'</pre>
column='type'/>
                  <parameter name='comment1' label='Comment</pre>
A' column='comment1'/>
                  <parameter name='comment2' label='Comment</pre>
B' column='comment2'/>
                                               label='Status'
                 <parameter name='status'</pre>
column='status'/>
          </spatialdataconnection>
</data:datadefinition>
<data:data id="drainagepits" label="Drainage Pits" entity="</pre>
drainagepits datadefinition="dd_drainagepit" />
```

- Also refer to the following sections of the Weave System Administrator Guides:
 - Spatial Engine Shapefile
 - Spatial Mapper

Related articles

Content by label

There is no content with the specified labels

How to View the Developer Console

Sometimes an error can occur in the Weave client that is not recorded in the <code>weave.log</code> file, this is especially likely to happen if you've been asked to test updates to a new piece of client-side functionality. For example, if you've been sent an updated plugin file and you've installed the plugin but now the client won't start, or the item with the new functionality is now not working at all. In these situations, it is possible that the error is logged by the browser on the clients' computer, rather than on the server that's running Weave. This article will provide information on how you can open the developer console and view any additional log information that may be generated there, which you can then provide to Cohga to help resolve the problem.

Debug Mode

Normally, when the Weave client is started, the JavaScript code running on the browser is compressed to make it quicker to download and run the code. This results in less useful information being written to the console which is a good thing, unless you are trying to debug an issue. To try and avoid this you should start the client in "debug mode", which will sometimes provide information that can itself be used to resolve a problem, even without producing additional console output.

To enable debug mode when starting the Weave client you just need to add ; debug to the end of the URL you usually use to start Weave.

For example, if the usual Weave startup URL is:

http://example.com/weave/main.html

then to start the client in debug mode you'd use:

http://example.com/weave/main.html;debug

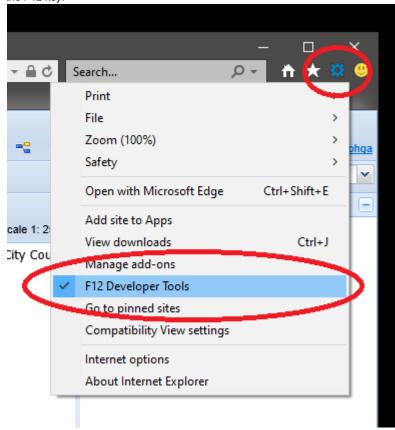
Note that if you have to login you may be directed away from the Weave client page to a login page and then redirected back to the Weave client page once you've logged in and the <code>;debug</code> string at the end of the URL has been removed. If this is the case just manually add it back in the URL bar, and this time you should not be redirected to a login page, since you're already logged in, but instead the client should start in debug mode. If you can't get debug mode to work you can still perform the rest of the things outlined in this page to at least see if there's an error occurring.

Opening the Developer Tools

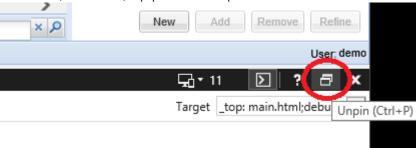
Depending upon your browser there may be a different way to open the developer tools. Note that it's possible for the developer tools to have been disabled by your organization.

Internet Explorer

You can access the developer tools either via the Setting menu in the top right, under the F12 Developer Tools menu item, or by pressing the F12 key.

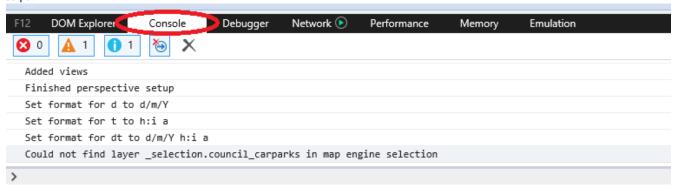


By default the developer tools will open up at the bottom of the existing browser window. You can use the "unpin" option in the developer tools title bar, or Control-P, to pop it out into a separate window that can be easier to view.



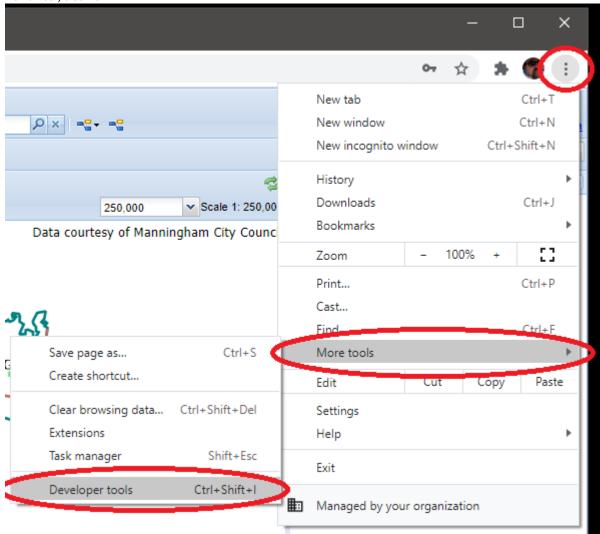


To view the console output from here you should switch to the *Console* tab. If the tab is empty reload the client and you should see some output.

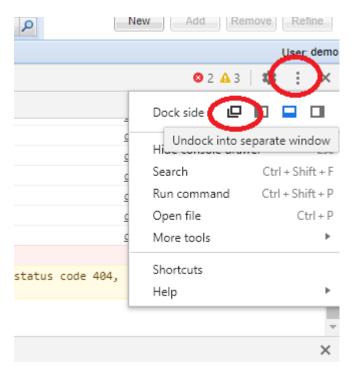


Google Chrome

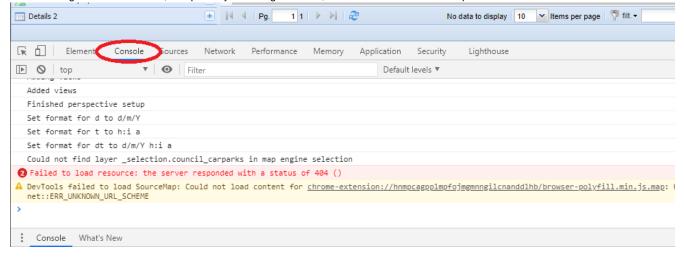
You can access the developer tools in Chrome again from the Settings menu in the top right, but F12 and Control-Shift-I (that's the letter, not the number) also work.



Again, Chrome will open the developer tools at the bottom of the browser window, and you can pop it out to a separate window.



And switching to the Console tab, and possibly reloading the client, should show the console output we're after.

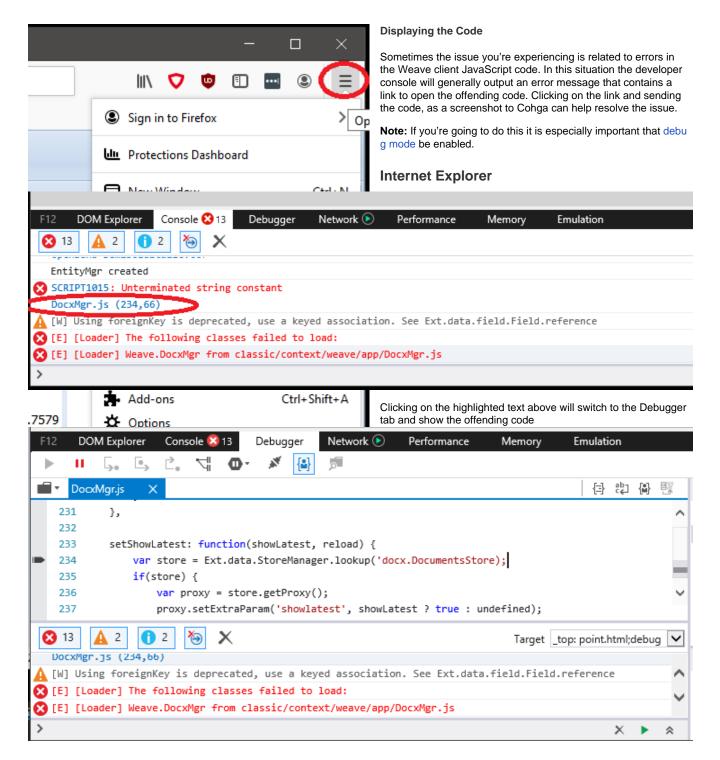


Microsoft Edge

The newest version of Edge operates in virtually the same way as Chrome (so refer to the instructions above).

Mozilla Firefox

Firefox uses Control-Shift-K to open the Web Console, or you can access it via the hamburger menu in the top right.



Google Chrome

