

Enhanced Search Widget XML Configuration

Version 3.6.4 – Mar 3, 2014

Changes made since version 3.6.3. Added `exportnumbersasformattedstrings` attribute to `enableexport` tag. In previous versions number fields were exported as strings with any numeric/currency formatting applied, now by default they will be exported without text qualifiers and without numeric string formatting see page 2. Added `popuplinktype` attribute to link tags so you can specify if the popup link will just be a text link or it will attempt to use the url image or the icon image in the popup see page 5.

The configuration file for the enhanced search widget allows for the configuration of the enhanced search widget without changes to the source code. Below is a list of the xml elements (tags) and what they do. The following section pertains to all child elements of the **layers** element.

```
<layer>
  <token/>
  <useproxy>false</useproxy>
  <definitionexpression></definitionexpression>
  <enableprintgrid title="Selected Zoning Areas">true</enableprintgrid>
  <enableexport exportnumbersasformattedstrings="true" >true</enableexport>
  <name>Louisville Zoning</name>
  <url>http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Louisville/LOJIC_LandRecords_Louisville/MapServer/2</url>
  <expressions>
    <expression alias="Zoning Code" textsearchlabel="Search Zoning Code:" isvaluerequired="false">
      <values>
        <value prompt="Example: OR1" uniquevalsfromfield="ZONING_CODE" isvaluerequired="false"
autosubmit="false">upper(ZONING_CODE) = upper('[value]')</value>
        <value prompt="Example: OFFICE" userlist="OFFICE,RESIDENTIAL,all" isvaluerequired="false" autosubmit="false"
operator="AND">ZONING_TYPE = '[value]'</value>
      </values>
    </expression>
    <expression alias="Zoning Type" textsearchlabel="Search Zoning Type:">
      <values>
        <value prompt="Example: RESIDENTIAL" isvaluerequired="true">upper(ZONING_TYPE) = upper('[value]')</value>
      </values>
    </expression>
    <expression alias="Zoning Name" textsearchlabel="Search Zoning Name [ Example: RES MULTI-FAMILY ]:">
      <values>
        <value prompt="Example: RES MULTI-FAMILY" isvaluerequired="true">upper(ZONING_NAME) LIKE upper('%[value]')</value>
      </values>
    </expression>
  </expressions>
  <graphicalsearchlabel>Use one of the graphical search tools to select Zoning</graphicalsearchlabel>
  <spatialsearchlayer>true</spatialsearchlayer>
  <titlefield>ZONING_NAME</titlefield>
  <fields all="false">
    <field name="ZONING_CODE" alias="Zoning Code"/>
    <field name="ZONING_NAME" alias="Zoning Name"/>
    <field name="SALE_DATE" gridfield="true" dateformat="MM/DD/YYYY"/>
    <field name="SALE_PRICE" gridfield="true" currencyformat="$|2|,|."/>
    <field name="URL" alias="Show Image" hyperlinkgridfield="true" hyperlinkaliastext="Get Image"/>
  </fields>
  <links>
    <link alias="REST Services Directory" disablelinksifnull="true" disableinpopups="false" popuplinktype="text" >
      <[[CDATA[{URL}]]>
      <icon><![CDATA[assets/images/i_camera.png]]></icon>
    </link>
  </links>
  <zoomscale usegeometry="true" zoompercent="1.2"/>
  <autoopendatagrid>true</autoopendatagrid>
  <relates/>
  <queryattachments>false</queryattachments>
  <symbology>
    <simplefillsymbol color="0x0000ff" alpha="0.5">
      <outline color="0x00ffff" alpha="0.8" width="2" />
    </simplefillsymbol>
  </symbology>
</layer>
```

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```
<token>Ot_QvVciucjYmAeF2ML2Xv1Z2qYTUL-KNFcrPNSQrFMKfC2Q3VI85yhTbdVsrqB5</token>
```

The **token** element allows you to pass a token to the layer for secure services.

```
<useproxy>true</useproxy>
```

The **useproxy** element allows you to specify if this particular layer is to be routed through the proxy url configured in the Viewers main config.xml.

```
<definitionexpression>Local_ID LIKE '%Z'</definitionexpression>
```

The **definitionexpression** element limits the query to a subset of the available features in the map service layer. It is similar to the definition query for a layer in ArcMap.

```
<enableexport exportnumbersasformattedstrings="true">true</enableexport>
```

The **enableexport** element specifies whether or not this layer will have export data options on the data grid if one is configured. Default is false. The **exportnumbersasformattedstrings** attribute allows you to specify that number fields are exported as strings with numeric/currency formatting applied if specified (as was the default in previous versions). Now the default is that numeric fields will be exported without a text qualified and string formatting will be removed.

```
<enableprintgrid title="Selected Sub Types" >true</enableprintgrid>
```

The **enableprintgrid** element specifies whether or not this layer will have print button on the data grid if one is configured. Default is false. The **title** attribute is the title that will appear at the top of the print.

```
<name>Louisville Zoning</name>
```

The **name** element specifies the name of the configured layer and will appear in the layer combo box if more than one layer is configured.

```
<url>http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Louisville/LOJIC_LandRecords_Louisville/MapServer/2</url>
```

The **url** element specifies the REST End point url of the layer that will be queried.

```
<expressions>
  <expression alias="Zoning Code" textsearchlabel="Search Zoning Code:" isvaluerequired="true">
    <values>
      <value prompt="Example: OR1" userlist="OR1,C2,OTF,all" isvaluerequired="false" autosubmit="false">upper(ZONING_CODE) = upper('[value]')</value>
      <value prompt="Example: OFFICE" userlist="OFFICE,RESIDENTIAL,all" isvaluerequired="false" operator="AND">ZONING_TYPE = '[value]'</value>
    </values>
  </expression>
  <expression alias="Zoning Type" textsearchlabel="Search Zoning Type:">
    <values>
      <value prompt="Example: RESIDENTIAL">upper(ZONING_TYPE) = upper('[value]')</value>
    </values>
  </expression>
  <expression alias="Zoning Name" textsearchlabel="Search Zoning Name [ Example: RES MULTI-FAMILY ]:">
    <values>
      <value prompt="Example: RES MULTI-FAMILY">upper(ZONING_NAME) LIKE upper('%[value]')</value>
    </values>
  </expression>
</expressions>
```

The **expressions** parent element contains all the individual expression child elements that will be used for this particular layer. What this means is you can have multiple query expression elements that use different fields from this layer to query your map service.

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```
<expression alias="Sample Date" textsearchlabel="Search by Sample Date:" isvaluerequired="false">
  <values>
    <value prompt="Example: 5/15/1985" isvaluerequired="false" uniquevalsfromfield="SMPL_DATE" dateformat="MM/DD/YYYY"
useutc="true">SMPL_DATE = date[value]</value>
  </values>
</expression>
```

The **expression** element specifies the actual sql query syntax that will be used against this layer as well as the other optional and required attributes. The **alias** attribute is required and will be the text that appears in the combo box if more than one expression child is specified. The **textsearchlabel** attribute is optional but HIGHLY recommended as this gives your user an idea of what value to enter into the input text box. The **textsearchlabel** should be a valid example value that a user would enter if they are unfamiliar with your data. The **values** parent element allows you to have multiple **value** child elements which equates to multiple fields that will make up the expression. The **value** element has several attributes that specify if the individual value is a **userlist**, **domain**, **uniquevalsfromfield**, etc. The **field** attribute is optional and only needs to be added if you want to use a field that has a coded value or Range domain associated with it and you specify the **usedomain** attribute as true. What this does is gets all the valid coded value domain values and adds them to a combo box that replaces the text input box and forces the user to select a valid coded value for the search or sets validation on the text input box to warn you if the value entered is above the max range value or below the minimum value in the range domain. The **field** attribute needs to be the same field that is used in the SQL expression. The **usedomain** attribute is either true or false and must be used in conjunction with the **field** attribute. The **usesubtype** attribute is very similar to the **usedomain** attribute, and is either true or false and indicates if the dropdown in the search UI should use the layer's subtype as the list. If you are using the **usesubtype** know that your actual SQL expression is likely to be a numeric query and thus the [value] is not wrapped in single quotes. The **userlist** attributes give you the ability to predefine your own list of search values that will be presented to the user in a dropdown instead of the user typing the value. If you use a **userlist** then you do not specify the field attribute. If you include the value "all" in the **userlist** then all the values in the **userlist** will be selected when the search is executed. The **userlist** can be text qualified with single quotes around ALL values if ANY of the values contain a comma (i.e. 'all', '1,1-Dichloroethane', 'trichloroethylene'). The **uniquevalsfromfield** attribute gives you the ability to specify the field that will be used to get unique values from to populate a dropdown list in the widget. To use the **uniquevalsfromfield** your map service layer must come from **ArcGIS Server 10 or greater**. If using the **uniquevalsfromfield** attribute on a date field then you need to specify the **dateformat** and the optional **useutc** attributes. Using the **uniquevalsfromfield** attribute on a date field requires that you have an understanding of the proper SQL syntax for your underlying data source. For more information on querying dates for your data source [click here](#). The **isvaluerequired** on the expression if true, means at least one value must be entered. This was specifically designed for the scenario where all the values are optional, but the user must give at least one. For example, if an expression has 3 values, none of which are required, setting the **isvaluerequired** on the expression means that the user has to fill out at least 1 of the 3 values before submitting the query. The **isvaluerequired** on the value tag means that the value must be entered before the search can be submitted. The **autosubmit** on the value tag if set to false means that the value will not be submitted automatically based on hitting the enter key on a textbox or selecting an item in the Drop down list. The default value of the **autosubmit** is true if not specified in the value element. If **isvaluerequired** is given and set to false explicitly, then it is optional (aka not required), otherwise the default is required. Pay attention to the last statement, because if you don't add the **isvaluerequired** attribute to each value then it will default to **required**. Thanks to David McCourt for providing code for this feature. The **operator** attribute is for when you are using multi field expressions and is the operator used to join the expressions. Supported values are AND and OR. This eliminates the need to add the operator in the second value SQL text.

```
<graphicalsearchlabel>Use one of the graphical search tools to select Zoning</graphicalsearchlabel>
```

The **graphicalsearchlabel** element specifies the label that instructs the user to use the graphical search tools to select feature in the specified layer.

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```
<spatialsearchlayer>true</spatialsearchlayer>
```

The **spatialsearchlayer** element specifies if this particular layer will be included in the combo box for an available layer to use in conjunction with the spatial search option.

```
<titlefield>ZONING_NAME</titlefield>
```

The **titlefield** element specifies the label that will appear at the top of the search widgets result for each feature that is returned and at the top of the info window for the feature.

```
<fields all="false">
  <field name="ZONING_CODE" alias="Zoning Code"/>
  <field name="ZONING_NAME" alias="Zoning Name" sort="asc|1|string"/>
  <field name="ZONING_TYPE" alias="Zoning Type"/>
  <field name="SALE_DATE" gridfield="true" dateformat="MM/DD/YYYY" useutc="true" gridfieldonly="true" sum="true" sumlabel="Sales Price: "/>
  <field name="SALE_PRICE" gridfield="true" currencyformat="$|2|,|." gridfieldonly="true"/>
  <field name="URL" alias="Show Image" hyperlinkgridfield="true" hyperlinkaliastext="Get Image" hyperlinkgridicon="assets/images/i_lego.png"/>
</fields>
```

The **fields** parent element contains all the individual **field** child elements that will be used for this particular layer. Everything for the field element is specified as an attribute of the element. The **name** attribute is the actual field name. If you are using a layer that contains a join than the full join field name should be used. The **alias** attribute is optional as this information can automatically be retrieved from the map service. If you want to specify an alias that is different than the alias specified in ArcMap than you can set this value. The **visible** attribute defines if the field will be used in the widget results or not and by default is true. The **visible** attribute does not need to be provided unless you are setting it to false, which means you want the field returned by the query but it will not be displayed in the widget results. A use case for this is if you need the field to only be used in a datagrid or a link. If you want this field to appear in the floating data grid than you specify true for the **gridfield** attribute, valid values are true or false, and the default is false. Just specifying the field will add the field to the widget results and the info window. The **gridfieldonly** attribute will change the default behavior and it will only be added to the floating data grid and not the widget results or the info window, valid values are true or false, and the default is false. The **useutc** attribute allows the difference, in minutes, between universal time (UTC) and the computer's local time to be added to the date. The **dateformat** attribute allows you to specify the format of an esri date field. See esri documentation for valid format strings. The **currencyformat** attribute allows you to format a numeric field that represents currency values.


currencyformat - is a string that is pipe delimited. The first-position is the currency symbol, second-number of decimal places, third-thousands separator, fourth-decimal separator. Example: "\$|2|,|."

The **numberformat** attribute allows you to format a numeric field. **numberformat** - is a string that is pipe delimited. The first-position is the precision, second-thousands separator, third-decimal separator. Example: "2|,|." The **hyperlinkgridfield** attribute specifies that this field is a grid hyperlink field, valid values are true or false, and the default is false. So if you want a clickable link text in the data grid than you need to use this attribute. The **hyperlinkaliastext** attribute is the text or a {field} to show instead of the url in the data grid. If you want to use a field for the **hyperlinkaliastext** then just specify the name of the field in curly braces (i.e. {DESCRIPTION}). So if you have a long url or just don't want the url to show in the data grid then you specify the alias that you do want to appear in the data grid using this attribute. The **hyperlinkgridfieldonly** attribute specifies that this particular field will only be used in the data grid as a hyperlink and not appear in the widget results or the info window, valid values are true or false, and the default is false. If **linkprefix** and/or **linksuffix** is specified than the static text from the **linkprefix** and **linksuffix** field makes a complete url to a document, image, website, etc when it comes to the field being use as a **hyperlinkgridfield**. The **hyperlinkgridicon** attribute allows you to specify that the grid hyperlink will be an image instead of the hyperlink text or alias. The **sum** attribute is a true or false attribute that can be added to a numeric field that is set to be shown in the data grid that will sum all the entries for this field and post this result in the data grid. The **sumlabel** attribute is the text label that will appear in front of the sum total on the data grid. The **sort** attribute is a string that is pipe delimited. The first-position specifies if the sort is ascending or descending (values are asc or dsc), second-is the sort order (i.e. the order in which this field is sorted), third-is the type of field (values are string, numeric, date). Example: "asc|1|string". The **sort** attribute only applies to grid fields in the fixed, float, and relate datagrid.


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```
<links>
  <link alias="REST Services Directory" disablelinksifnull="true" disableinpopups="true" popuplinktype="text">
    <![CDATA[{URL}]]>
    <icon><![CDATA[assets/images/i_camera.png]]></icon>
  </link>
</links>
```

The optional **links** parent element contains your desired links. Specify one or more links. The link is specified much the same way you configure a popup in the Flex Viewer. The **alias** attribute give you the ability to have a link like <http://help.arcgis.com/en/webapps/flexviewer> displayed in the popup as ESRI Website. You can use a string for this attribute or a curly braced field name. The **disablelinksifnull** gives you the ability to specify that a link will not be shown if any of the fields used in the link are null. The link must be wrapped in a CDATA and is a string that contains a url or multiple fields wrapped in curly braces or when combined with the static text from makes a complete url to a document, image, website, etc. The **disableinpopups** allows you to specify that this link should be excluded from the popup. The **popuplinktype** is an attribute that you can specify if the popup link will just be a text link or it will attempt to use the url image or the icon image in the popup. Valid values are image and text, the default value is image if not specified.

The optional **icon** element is a string field that contains a url or when combined with the static text makes a complete url to an image (preferably small) that will replace the standard  icon. So example would be icon elements would have:

```
<icon><![CDATA[http://myserver/icons/{icofield }.jpg]]></icon>
```

So if your icon has a value of "pdf" then the complete url would be "http://myserver/icons/pdf.jpg" and that image would be used. Possibly looking like this . It is important to use a small image around 20x20 pixels.

```
<zoomscale usegeometry="false" zoompercent="1.2">2400</zoomscale>
```

The **zoomscale** element is a numeric value that the maps scale will be set to when widget result is clicked or the data grid row is clicked. The **usegeometry** is false by default but if set to true then the results geometry will be used to zoom the map to the result. If the **usegeometry** value is false, than the specified scale will be used to set the scale of the map. If the **usegeometry** value is true than the **zoompercent** is used to set the percent of the geometries extent that will be used to set the maps extent. The default for the **zoompercent** is 1.2 which means 120 percent of the geometries extent, so the map will be zoomed to 120% of the returned geometry.

```
<queryattachments>true</queryattachments>
```

The **queryattachments** element is a Boolean value that specifies if the search result popup will attempt to query for attachments. The **queryattachments** is false by default.

```
<symbology>
  <simplefillsymbol color="0x0000ff" alpha="0.5">
    <outline color="0x00ffff" alpha="0.8" width="2" />
  </simplefillsymbol>
</symbology>
```

Symbology can now be specified at the layer level as well as the widget level. What this means is that you can have unique symbology of each search. Only the same basic symbology is supported at the layer level as is supported at the widget level, (i.e. simplefillsymbol, simplelinesymbol, picturmakersymbol, and simplemarkersymbol).

```
<relates>
  <relate id="0" label="ABIMS Bridge" enableexport="true" enableprintgrid="true" icon="assets/images/i_hydro.png">
    <fields all="true" />
    <zoomscale usegeometry="true" zoompercent="1.6" />
  </relate>
  <relate id="1" label="Average Daily Traffic" enableexport="false" enableprintgrid="true"
    icon="assets/images/i_folder.png" printtitle="Related Average Daily Traffic">
  </relate>
```


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```
<fields all="false">
  <field name="Date_" dateformat="MM/DD/YYYY" useutc="true"/>
  <field name="Road_Name" />
  <field name="Road_ID" />
  <field name="Location" />
  <field name="ADT" numberformat="2|,|."/>
  <field name="Percent_Tr" />
</fields>
</relate>
</relates>
```

The **relates** parent element contains all the individual **relate** child elements that will be used for this particular layer. Everything for the relate element is specified as an attribute of the element. The **id** attribute is the actual relate id number from the REST Services directory. The **label** attribute is a name that will be shown to the user to select this relate in the UI and used for messages concerning the relate. The **icon** attribute is a String that specifies the path to the image that is displayed for the relate icon button in the search results if only one relate is specified for that layer or if the layer has more than one relate the icon will appear in the choose relate dialog. The **enableexport** attribute defines if the relates datagrid will display export options for the selected relate, (default is false). The **printtitle** attribute defines the title of the print output for this relate. The **enableprintgrid** attribute defines if the relates datagrid will display a print button for the selected relate, (default is false). The **fields** parent element contains all the individual **field** child elements that will be used for this particular layer. Everything for the field element is specified as an attribute of the element. The **name** attribute is the actual field name. If you are using a layer that contains a join then the full join field name should be used. The **alias** attribute is optional as this information can automatically be retrieved from the map service. If you want to specify an alias that is different than the alias specified in ArcMap then you can set this value. The **useutc** attribute allows the difference, in minutes, between universal time (UTC) and the computer's local time to be added to the date. The **dateformat** attribute allows you to specify the format of an esri date field. See esri documentation for valid format strings. The **currencyformat** attribute allows you to format a numeric field that represents currency values. **currencyformat** - is a string that is pipe delimited. The first-position is the currency symbol, second-number of decimal places, third-thousands separator, fourth-decimal separator. Example: "\$|2|,|." The **numberformat** attribute allows you to format a numeric field. **numberformat** - is a string that is pipe delimited. The first-position is the precision, second-thousands separator, third-decimal separator. Example: "2|,|." The **hyperlinkgridfield** attribute specifies that this field is a grid hyperlink field, valid values are true or false, and the default is false. So if you want a clickable link text in the data grid, then you need to use this attribute. The **hyperlinkaliastext** attribute is the text to show instead of the url in the data grid. So if you have a long url or just don't want the url to show in the data grid then you specify the alias that you do want to appear in the data grid using this attribute. The **sum** attribute is a true or false attribute that can be added to a numeric field that is set to be shown in the data grid that will sum all the entries for this field and post this result in the data grid. The **sumlabel** attribute is the text label that will appear in front of the sum total on the data grid. The **zoomscale** element is a numeric value that the maps scale will be set to when widget result is clicked or the data grid row is clicked. The **usegeometry** is false by default but if set to true then the results geometry will be used to zoom the map to the result. If the **usegeometry** value is false, then the specified scale will be used to set the scale of the map. If the **usegeometry** value is true then the **zoompercent** is used to set the percent of the geometries extent that will be used to set the maps extent. The default for the **zoompercent** is 1.2 which means 120 percent of the geometries extent, so the map will be zoomed to 120% of the returned geometry.

```
<autoopendatagrid>true</autoopendatagrid>
```

The **autoopendatagrid** element is a Boolean value that specifies if the datagrid will automatically be opened be a search is performed for this layer. The **autoopendatagrid** is false by default.

The following section pertains to all child elements of the **tables** element.

```
<table>
  <token/>
  <definitionexpression></definitionexpression>
  <enableexport>true</enableexport>
```

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```
<enableprintgrid>true</enableprintgrid>
<name>SF Incidents</name>
<url>http://sampleserver3.arcgisonline.com/ArcGIS/rest/services/SanFrancisco/311Incidents/MapServer/1</url>
<expressions>
  <expression alias="Agree with incident" textsearchlabel="Search Incidents that are agreed to:">
    <values>
      <value prompt="Example: True" field="agree_with_incident" usedomain="true">agree_with_incident = [value]</value>
    </values>
  </expression>
  <expression alias="Incident date" textsearchlabel="Search Incidents on or after date:">
    <values>
      <value prompt="Example: 2012/04/16">datetime >= '[value] 00:00:00'</value>
    </values>
  </expression>
</expressions>
<titlefield>sf_311_serviceoid</titlefield>
<fields all="false">
  <field name="sf_311_serviceoid" alias="Incident OID"/>
  <field name="agree_with_incident" alias="Website Link" hyperlinkgridfield="true"
    hyperlinkaliastext="Go to Website"
    linkprefix="http://someWebSite/asp/asp/web/details.aspx?p_entity="
    linksuffix=".aspx"/>
  <field name="client_ip" alias="Client IP" gridfield="true"/>
  <field name="datetime" alias="Date" dateformat="MM/DD/YYYY" useutc="true" gridfield="true"/>
  <field name="notes" alias="Notes" gridfield="true"/>
</fields>
<links>
  <link alias="">
    <![CDATA[]]>
    <icon><![CDATA[]]></icon>
  </link>
</links>
<relates>
  <relate id="1" label="Incident Priority Service Request" enableexport="true" icon="widgets/eSearch/assets/images/i_relate.png">
    <fields all="true" />
  </relate>
</relates>
<queryattachments>false</queryattachments>
</table>
```

The **table** element is identical to the layer element except for those tags that pertain to geometry, graphical or spatial searches:

1. graphicalsearchlabel - not applicable.
2. spatialsearchlayer – not applicable.
3. zoomscale – not applicable.

The following section pertains to **spatialrelationships**.

```
<spatialrelationships>
  <spatialrelationship>
    <name>esriSpatialRelContains</name>
    <label>entirely contained in</label>
  </spatialrelationship>
  <spatialrelationship>
    <name>esriSpatialRelIntersects</name>
    <label>intersected by</label>
  </spatialrelationship>
  <spatialrelationship>
    <name>esriSpatialRelEnvelopeIntersects</name>
    <label>intersected by envelop of</label>
  </spatialrelationship>
</spatialrelationships>
<bufferunits>
  <bufferunit>
    <name>UNIT_FOOT</name>
    <label>Feet</label>
  </bufferunit>
  <bufferunit>
    <name>UNIT_STATUTE_MILE</name>
  </bufferunit>
</bufferunits>
```

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```
<label>Miles</label>
</bufferunit>
<bufferunit>
  <name>UNIT_METER</name>
  <label>Meters</label>
</bufferunit>
<bufferunit>
  <name>UNIT_KILOMETER</name>
  <label>Kilometers</label>
</bufferunit>
</bufferunits>
```

The **spatialrelationships** parent element contains all the individual **spatialrelationship** child elements that will be used for all layers.

```
<spatialrelationship>
  <name>esriSpatialRelContains</name>
  <label>entirely contained in</label>
</spatialrelationship>
```

The **spatialrelationship** element specifies the buttons and spatial operators that will be available for the spatial search portion of the widget.

```
<name>esriSpatialRelContains</name>
```

The **name** element is the esri constant that specifies the esri spatial relation operation that will be executed against the selected graphics. Possible values are:

- esriSpatialRelIntersects
- esriSpatialRelContains
- esriSpatialRelCrosses
- esriSpatialRelEnvelopeIntersects
- esriSpatialRelIndexIntersects
- esriSpatialRelOverlaps
- esriSpatialRelTouches
- esriSpatialRelWithin

Unsupported value is esriSpatialRelRelation.

```
<label>entirely contained in</label>
```

The **label** element is the tooltip that will be displayed when the user hovers their mouse over the button.

The **bufferunits** parent element contains all the individual **bufferunit** child elements that will be used for all buffer operations.

```
<bufferunit selected="true">
  <name>UNIT_FOOT</name>
  <label>Feet</label>
</bufferunit>
```

The **bufferunit** element specifies the buffer units that appear in the unit combo box on spatial search portion of the widget. The **selected** attribute specifies that the bufferunit that has this attribute set to true will be selected in the widgets GUI dropdown.

```
<name>UNIT_FOOT</name>
```

The **name** element is the esri constant that specifies the esri unit type that will be used in the buffer operation on the selected graphics. Possible values are:

- UNIT_FOOT
- UNIT_ACRES

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- UNIT_ARES
- UNIT_HECTARES
- UNIT_KILOMETER
- UNIT_METER
- UNIT_NAUTICAL_MILE
- UNIT_STATUTE_MILE
- UNIT_US_NAUTICAL_MILE

```
<label>Feet</label>
```

The **label** element is the text that will be displayed in the unit combo box on spatial search portion of the widget.

```
<buffervalue>2</buffervalue>
```

The **buffervalue** element is a numeric value that specifies if the default distance that will be in the widgets GUI for buffering (both graphical and spatial).

The following section pertains to several different configuration options.

```
<printdatagrid>
  <addheadertoeachpage>true</addheadertoeachpage>
  <columnheaderbgcolor>0xafafaf</columnheaderbgcolor>
  <columnheaderfontcolor>0x000000</columnheaderfontcolor>
  <footer>
    <pageoftext>page ## of ##</pageoftext>
    <includeprintdate format="MM-DD-YYYY L:NN A">true</includeprintdate>
    <disclaimer></disclaimer>
  </footer>
</printdatagrid>
```

The **printdatagrid** parent element contains child element for default when printing from the datagrid.

The **addheadertoeachpage** element specifies whether the datagrid column headers should be added to the top of each print page. This element is a Boolean value and its default is false.

The **columnheaderbgcolor** element specifies the background color of the datagrid header columns that are printed. This is an unsigned integer value and the default is 0xa7a7a7 (a light gray).

The **columnheaderfontcolor** element specifies the font color of the datagrid header columns that are printed. This is an unsigned integer value and the default is 0x000000 (Black).

The **footer** parent element contains child elements for the footer.

The **pageoftext** element specifies the string to be used in the page x of x in the footer added to the bottom of each print page. This element is a String value and its default is "Page ## of ##". Take notice of the required format of this string, they are (indicated in red): Some string (i.e. Page), **space, pound sign, pound sign, space**, some string (i.e. of), **space, pound sign, pound sign**.

The **includeprintdate** element specifies whether the date of printing should be added to the footer of each print page. This element is a Boolean value and its default is false. The attribute of **format** allows you to specify the date format.

The **disclaimer** element specifies the string to be used in the center of the footer added to the bottom of each print page and allows you to add a single line of text for use as a disclaimer. Caution should be used when it comes to the length of this string. Be aware that this option ONLY accommodates one single line.

Enhanced Search Widget XML Configuration

```
<spatialReference>102003</spatialReference>
```

The **spatialReference** element is the WKID to use for the buffer operations and spatial operations. The WKID of 102003 will work the best for most applications around the world.

```
<zoomscale>2400</zoomscale>
```

The **zoomscale** element is a numeric value that the maps scale will be set to when widget result is clicked or the data grid row is clicked.

```
<csvseparator>,</ csvseparator >
```

The **csvseparator** element is for internationalization of the data grid export data button functionality and only applies to the data grid export file.

```
<textqualifier>"</textqualifier>
```

The **textqualifier** element is for defining the character that will be used in the export datagrid to signify that the field contents are a string to programs like Excel®. You can change this to a single quote if your data contains a double quote in it for designation of inches.

```
<removeserchlayersminmaxscale>true</removeserchlayersminmaxscale>
```

The **removeserchlayersminmaxscale** element is a Boolean that specifies whether or not to remove the MinScale and MaxScale of the layer that is set on the particular layer from ArcGIS Server. Default is false if not specified.

```
<keepgraphicalsearchenabled>true</keepgraphicalsearchenabled>
```

The **keepgraphicalsearchenabled** element is a Boolean that specifies whether or not to keep the graphical selection tool that the user chooses active even after a selection has been made. This means that you will not have to clear your selection and re-choose a graphical selection tool in order to make another selection. To unselect/disable the current graphical search tool all you have to do is clear your selection. Default is false if not specified.

```
<autozoomtoresults>true</autozoomtoresults>
```

The **autozoomtoresults** element is a Boolean that specifies whether or not to automatically zoom to the selected features after a search is completed. The Default is false if not specified.

```
<enabledatagridinteractionwithwidget>true</enabledatagridinteractionwithwidget>
```

The **enabledatagridinteractionwithwidget** element is a Boolean that specifies whether or not to enable interaction between the widget results and the datagrid results. The default for this element is false. This interaction is seen when you hover the mouse over a record in the data grid the corresponding record in the widgets results are highlighted and vice versa. With large result datasets this interaction causes a delay that can affect the performance of the viewer.

```
<popupdisabled>>false</popupdisabled>
```

The **popupdisabled** element is a Boolean that specifies whether or not to enable popups for this widget. This includes both datagrid (fixed or float) and the widget results. The default is false.

```
<toleranceforpointgraphicalselection>3</toleranceforpointgraphicalselection>
```

The **toleranceforpointgraphicalselection** element is a number that is in screen pixels that represents the tolerance that will be added to the graphical point search when click on the map. The **toleranceforpointgraphicalselection** is for point on point selection. This option is unchecked by default.

Enhanced Search Widget XML Configuration

`<tolerancebydefault>false</tolerancebydefault>`

The **tolerancebydefault** element is a Boolean that specifies whether to check the "Add search tolerance to point selection" checkbox in the User Interface by default or not. This option is unchecked (false) by default.

`<disablebuttons></disablebuttons>`

The **disablebuttons** element is a comma separated string. Possible values include one or more, but not all three search types text,graphic,spatial. The results button can also be disabled by adding result to the list and the datagrid button can also be disabled by adding datagrid to the list. (example text,graphic,result,datagrid). Disabling the result button also prevents the widget from displaying the search results in the widget, but continues to display the results in the datagrid.

***Depreciated the grid option as it was erroneously called grid and should have been result.**

`<defaultselectionoption>textInput</defaultselectionoption><!--possible values only one graphicalInput or textInput or spatialInput -->`

The **defaultselectionoption** element is a string that specifies which search option (i.e graphicalInput or textInput or spatialInput) will be the default search option for the widget.

`<enabledrawgraphicbutton>true</enabledrawgraphicbutton>`

The **enabledrawgraphicbutton** element is a Boolean that specifies whether to show the graphical selection button for using existing draw/eDraw graphics.

`<enablelocategraphicbutton>true</enablelocategraphicbutton>`

The **enablelocategraphicbutton** element is a Boolean that specifies whether to show the graphical selection button for using existing eLocate graphics.

`<enablebuffergraphicbutton>true</enablebuffergraphicbutton>`

The **enablebuffergraphicbutton** element is a Boolean that specifies whether to show the graphical selection button for using existing point buffer widget graphics.

`<enablemultigraphicsearch>true</enablemultigraphicsearch>`

The **enablemultigraphicsearch** element is a Boolean that specifies whether to show the enable multi-part graphics search checkbox and label. This should be set to false along with the **multipartgraphicsearch** to completely remove the multi-part graphics search from the widgets interface.

`<enableincludetextsearch>true</enableincludetextsearch>`

The **enableincludetextsearch** element is a Boolean that specifies whether to show the "include text query in selection criteria" checkbox and label.

`<enableaddtolerance>true</enableaddtolerance>`

The **enableaddtolerance** element is a Boolean that specifies whether to show the "Add search tolerance to point selection" checkbox and label.

`<enablegraphicsbuffering>true</enablegraphicsbuffering>`

The **enablegraphicsbuffering** element is a Boolean that specifies whether to show the "Buffer Graphic" options in the user interface.

Enhanced Search Widget XML Configuration

```
<selectedgraphicaltool></selectedgraphicaltool>
```

The **selectedgraphicaltool** element is a string that specifies if and which graphical selection button is the default button selected when the widget is opened and the defaultselectionoption = graphicalInput. The default is to have nothing optional values are extent, polygon, mappoint, polyline.

```
<multipartgraphicsearch>true</multipartgraphicsearch>
```

The **multipartgraphicsearch** element is a Boolean that specifies whether if the graphical selection tools allow multiple similar geometries to be drawn and the search button to activate the search. The **multipartgraphicsearch** is true by default.

```
<floatorfixed disablelatestabinfixed="false">float</floatorfixed>
```

The **floatorfixed** element is a String that specifies whether if the datagrid will be a floating datagrid or a fixed datagrid. The new fixed datagrid allows you to specify a permanent location of the datagrid in the Flex Viewer UI. Please refer to the Enhanced Search Widget Fixed Datagrid Setup.pdf for details on how to setup the fixed datagrid. In this version if you are using the fixed datagrid and you have relates configured for a specific layer than the relates tab will be visible when you select that layer in the widget. If you do not have any relates configured for that layer than the relates tab will not be visible.

```
<relatetooltip>Show Relates</relatetooltip>
```

The **relatetooltip** element is a String that specifies the tool tip that is displayed when you hover over the relate icon button in the search results.

```
<relateicon>widgets/eSearch/assets/images/i_relate.png</relateicon>
```

The **relateicon** element is a String that specifies the path to the image that is displayed for the relate icon button in the search results.

```
<subselection color="0xfbfe0a" linewidth="4" alpha="0.8" />
```

The **subselection** element defines the color, linewidth and alpha (opacity) of the datagrids sub selection color. Like in ArcMap, now when you complete a search you can choose a row in the results datagrid and the selected result will use this subselection color on the map.

```
<keepbufferaftersearch>true</keepbufferaftersearch>
```

The **keepbufferaftersearch** element defines the if the buffer graphic is cleared after the search is completed or not.

The following section pertains to labels.

```
<labels>
  <urlsearcherrormessage>URL search parameters are incorrect</urlsearcherrormessage>
  <includetextquery>include text query in selection criteria</includetextquery>
  <includetextquerywarn>Must be the same search layer in both&#10:graphical and text search pages.</includetextquerywarn>
  <buffergrapticprops>Buffer graphic properties</buffergrapticprops>
  <bufferusergraphics>Buffer Graphic</bufferusergraphics>
  <norelatesfound>No related features found for: </norelatesfound>
  <norelatesfoundalrttitle>No Results</norelatesfoundalrttitle>
  <addtolerance>Add search tolerance to point selection</addtolerance>
  <existingdrawgraphicslabel>Use Existing Enhanced Draw Widget Graphics</existingdrawgraphicslabel>
  <existinglocategraphicslabel>Use Existing Enhanced Locate Widget Graphics</existinglocategraphicslabel>
  <existingbuffergraphicslabel>Use Existing Point Buffer Widget Graphics</existingbuffergraphicslabel>
  <graphicalsearchlabel>Graphical Search</graphicalsearchlabel>
  <textsearchlabel>Text Search</textsearchlabel>
  <resultslabel>Results</resultslabel>
  <layerlabel>Search Layer:</layerlabel>
  <layerfieldlabel>Search Layer Field:</layerfieldlabel>
  <nolayerlabel>No search layer defined.</nolayerlabel>
```

Enhanced Search Widget XML Configuration

```
<submitlabel>Search</submitlabel>
<pointlabel>Select by Point</pointlabel>
<linelabel>Select by Line</linelabel>
<rectanglelabel>Select by Rectangle</rectanglelabel>
<polygonlabel>Select by Polygon</polygonlabel>
<clearlabel>Clear</clearlabel>
<loadinglabel>Loading...</loadinglabel>
<selectionlabel>Features Selected:</selectionlabel>
<gridresultslabel>Show Results in Grid</gridresultslabel>
<csvdefaultname>Selected Records</csvdefaultname>
<relatescsvdefaultname>Related Records</relatescsvdefaultname>
<exportbtnlabel>Export...</exportbtnlabel>
<export2csvoptionlabel>Export to CSV...</export2csvoptionlabel>
<export2txtoptionlabel>Export to Txt...</export2txtoptionlabel>
<bufferlabel>Apply a buffer to existing selection:</bufferlabel>
<spatialsearchlabel>Spatial search</spatialsearchlabel>
<applybufferlabel>Apply buffer</applybufferlabel>
<searchlayerlabel>Search entities of:</searchlayerlabel>
<enablemultipartsearch>enable multi-part graphics</enablemultipartsearch>
<zoomalllabel>Zoom</zoomalllabel>
<zoomalltip>Zoom to all results</zoomalltip>
<bufferalpha>Fill opacity</bufferalpha>
<buffercolor>Fill color</buffercolor>
<nobuffercolor>No fill color</nobuffercolor>
<bufferoutlinecolor>Outline color</bufferoutlinecolor>
<nobufferoutlinecolor>No outline color</nobufferoutlinecolor>
<bufferoutlinewidth>Outline Width</bufferoutlinewidth>
<configbuffergra>Configure buffer graphic properties...</configbuffergra>
<required>*</required>
<requiredtooltip>This field is required.&#13;Enter a value to enable search button</requiredtooltip>
<selectmethodtip>Click to change the selection method</selectmethodtip>
<newselectionmethodtip>Create new selection</newselectionmethodtip>
<addselectionmethodtip>Add to current selection</addselectionmethodtip>
<removeselectionmethodtip>Remove from current selection</removeselectionmethodtip>
<pagingqueryerrormsg>Four unsuccessful attempts was made to get unique values for </pagingqueryerrormsg>
<intersectmessage>There is no result to intersect, please make a graphical or text search first.</intersectmessage>
<edrawgraphicsmessage>There are no graphics available</edrawgraphicsmessage>
<nodatagridmessage>No Datagrid configured for this layer</nodatagridmessage>
<buffermessage>There is no result to buffer, please make a graphical or text search first.</buffermessage>
<clearbufferlabel>Clear Buffer</clearbufferlabel>
<alloptiontext>all</alloptiontext><!-- this is for those international users to change the text of the 'all' option in the dropdown lists -->
<spatialchoicemsg>Do you want to use the Buffer Graphics or the Selection Graphics?</spatialchoicemsg>
<spatialchoicetitle>Choose</spatialchoicetitle>
<buffergraphicstext>Buffer Graphics</buffergraphicstext>
<selectiongraphicstext>Selection Graphics</selectiongraphicstext>
</labels>
```

The following section pertains to symbols.

```
<symbols>
  <simplefillsymbol color="0xff0000" alpha="0.5">
    <outline color="0xff0000" alpha="0.8" width="2"/>
  </simplefillsymbol>
  <!-- You can have one or the other, either simplemarkersymbol or picturemarkersymbol
  defined for your point results NOT BOTH. picturemarkersymbol will override simplemarkersymbol
  if you do not have it commented out. -->
  <!--<simplemarkersymbol style="square" size="12" color="0xff0000" alpha="0.5" xoffset="0" yoffset="0" angle="0">
    <outline style="solid" color="0x000000" alpha="1" width="1"/>
  </simplemarkersymbol>-->

  <picturemarkersymbol url="/assets/images/i_search.png" height="30" width="30" xoffset="0" yoffset="0" />

  <simplelinesymbol color="0xff0000" alpha="0.8" width="2"/>
</symbols>
```

Default symbols can be set using syntax as above to set the default symbology for search results. For point data you can either use **simplemarkersymbol** **OR** **picturemarkersymbol**.