

# Location Search web service - how to

---

## Overview

---

iShare provides a SOAP web service to perform address searches against a clients LLPG and other gazetteers that have been cached in Data Share and had indexes built.

This functionality is available within the Locate.asmx web service under the LocationSearch operation

## Location Search Parameters

---

### LocateWebServices

Click [here](#) for a complete list of operations.

---

### LocationSearch

**Test**

To test the operation using the HTTP POST protocol, click the 'Invoke' butto

Parameter	Value
searchString:	<input type="text" value="10 academy"/>
dataType:	<input type="text" value="Property"/>
searchType:	<input type="text" value="Location"/>
offset:	<input type="text" value="0"/>
pageSize:	<input type="text" value="10"/>

This has 5 parameters:

1. searchString - a free form text string to search for or a UPRN
2. dataType - optional but Property should be used as default. If multiple gazetteers consult your documentation
3. searchType - for address searching use Location. For a UPRN search use UniqueId.
4. offset - a page offset which correspnds with the pageSize parameter
5. pageSize - number of records to return

## Location Search Results

---

There is a .NET DataSet with one DataTable returned with the results.

```

xmlns:msdata="urn:schemas-microsoft-com:xml-msdata" xmlns:msprop="urn:schemas-
microsoft-com:xml-msprop">
- <xs:element name="LocationSearch" msdata:IsDataSet="true" msdata:Locale="en-GB">
- <xs:complexType>
- <xs:choice maxOccurs="unbounded">
- <xs:element name="tempLocSearch" msprop:Total="2" msprop:Level="1"
msprop:Attempts="1">
- <xs:complexType>
- <xs:sequence>
<xs:element name="UniqueId" type="xs:string" minOccurs="0" />
<xs:element name="Parent" type="xs:string" minOccurs="0" />
<xs:element name="DisplayName" type="xs:string" minOccurs="0" />
<xs:element name="Type" type="xs:string" minOccurs="0" />
<xs:element name="X" type="xs:string" minOccurs="0" />
<xs:element name="Y" type="xs:string" minOccurs="0" />
<xs:element name="Rank" type="xs:string" minOccurs="0" />
<xs:element name="Name" type="xs:string" minOccurs="0" />
<xs:element name="Zoom" type="xs:string" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
- <diffgr:diffgram xmlns:msdata="urn:schemas-microsoft-com:xml-msdata"
xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1">
- <LocationSearch xmlns="">
- <tempLocSearch diffgr:id="tempLocSearch1" msdata:rowOrder="0">
<UniqueId>100061542294</UniqueId>
<Parent>38800005</Parent>
<DisplayName><b>10 Academy</b> Close, Camberley, GU15 4BU</DisplayName>
<Type>Property</Type>
<X>488268</X>
<Y>161903</Y>
<Rank>20%</Rank>
<Name>10 Academy Close, Camberley, GU15 4BU</Name>
<Zoom>100</Zoom>
</tempLocSearch>
- <tempLocSearch diffgr:id="tempLocSearch2" msdata:rowOrder="1">
<UniqueId>200001921708</UniqueId>
<Parent>38800757</Parent>
<DisplayName>Flat <b>10, Academy</b> Gate, 233 London Road, Camberley, GU15
3HB</DisplayName>
<Type>Property</Type>
<X>486974.8</X>
<Y>160585.89</Y>
<Rank>20%</Rank>
<Name>Flat 10, Academy Gate, 233 London Road, Camberley, GU15 3HB</Name>
<Zoom>100</Zoom>
</tempLocSearch>

```

The DataTable structure is:

1. UniqueId - Corresponds to the UPRN for LLPG's
2. Parent - Corresponds to the USRN for LLPG's
3. DisplayName - An HTML representation of the Name. This has markup with matching words marked as Bold (<b>)

4. Type - Type returned
5. X - Easting coordinate in BNG
6. Y - Northing coordinate in BNG
7. Rank - Percentage rank of search
8. Name - The address (or alternative identifier for other gazetteers) in raw format
9. Zoom - Defaults to 100 but reserved for future use i.e. Zoom Extents in meters of a feature.