

Postcode Address Search

services.3xsoftware.co.uk/Search/ByPostcode/{Format}?username={Username}&key={Key}&postcode={post code}&callback={Callbackfuncname}]

Parameter Key	Format = JSON or XML
	Username = Postcode Username
	Key = Postcode Key
	Postcode =Postcode Search String
	CallBackFunctionName = Function Called to Process Returned Address Data

This returns an array of Summary objects with Our 'Address ID', 'StreetAddress' and 'Place'.

An example Postcode Address Search using JSON is detailed below:

<http://services.3xsoftware.co.uk/Search/ByPostcode/json?username=uuuuuuu&key=xxxx-xxxx-xxxx-xxxx&postcode=11298ht&callback=yourCallbackFunctionName>

```
yourCallbackFunctionName({"Summaries":[{"Id":14668457,"StreetAddress":"3X Software Ltd","Place":"23 Princes Drive Colwyn Bay"}, {"Id":14668460,"StreetAddress":"Aslets The Letting Agents Ltd","Place":"23 Princes Drive Colwyn Bay"}, {"Id":14668449,"StreetAddress":"Barclays Bank Plc","Place":"Raymond Court Princes Drive Colwyn Bay"}, {"Id":14668444,"StreetAddress":"Clybiau Plant Cymru Kids Clubs","Place":"19 Princes Drive Colwyn Bay"}, {"Id":14668459,"StreetAddress":"Curvature Ltd","Place":"23 Princes Drive Colwyn Bay"}, {"Id":14668455,"StreetAddress":"D I P","Place":"13 Princes Drive Colwyn Bay"}, {"Id":14668453,"StreetAddress":"Emmanuel Solicitors","Place":"25 Princes Drive Colwyn Bay"}, {"Id":14668447,"StreetAddress":"Evans Wolfenden Partnership Llp","Place":"27 Princes Drive Colwyn Bay"}, {"Id":14668441,"StreetAddress":"Flat 1","Place":"15 Princes Drive Colwyn Bay"}, {"Id":14668461,"StreetAddress":"Flat 2","Place":"15 Princes Drive Colwyn Bay"}, {"Id":14668462,"StreetAddress":"Flat 3","Place":"15 Princes Drive Colwyn Bay"}, {"Id":14668452,"StreetAddress":"Glyn Owen & Co","Place":"25 Princes Drive Colwyn Bay"}, {"Id":14668458,"StreetAddress":"Jackson Accounting Ltd","Place":"23 Princes Drive Colwyn Bay"}, {"Id":14668451,"StreetAddress":"Manor Service Station Ltd","Place":"Princes Drive Colwyn Bay"}, {"Id":14668448,"StreetAddress":"Mark Roberts Environmental","Place":"27 Princes Drive Colwyn Bay"}, {"Id":14668442,"StreetAddress":"Mcintyre & Daughters Ltd","Place":"Alliance House 21 Princes Drive Colwyn Bay"}, {"Id":14668456,"StreetAddress":"Nacro","Place":"13 Princes Drive Colwyn Bay"}, {"Id":14668454,"StreetAddress":"Quality Solicitors Edward Hughes","Place":"25 Princes Drive Colwyn Bay"}, {"Id":14668446,"StreetAddress":"Ravenscroft Homes N W Ltd","Place":"27 Princes Drive Colwyn Bay"}, {"Id":14668443,"StreetAddress":"T Brackstone & Co","Place":"19 Princes Drive Colwyn Bay"}, {"Id":14668450,"StreetAddress":"Thornley Leisure Parks","Place":"William Sutcliffe Suite Raymond Court Princes Drive Colwyn Bay"}, {"Id":14668445,"StreetAddress":"Y Gadwyn","Place":"19 Princes Drive Colwyn Bay"}, {"Id":14668463,"StreetAddress":"17 Princes Drive","Place":"Colwyn Bay"}]}];
```

A detailed description of the data returned for a Postcode Search using JSON is described below.

yourCallbackFunctionName	The name of the callback function you want to call to process the returned address summaries as specified in the request.
<pre>{ "Summaries": [</pre>	Summaries is an array of the summary addresses that match the specified postcode
<pre> { "Id":14668457,</pre>	FIRST ADDRESS
<pre> "StreetAddress":"3X Software Ltd",</pre>	1 st Address Postcodes4u Address Reference/Id
<pre> "Place":"23 Princes Drive Colwyn Bay"</pre>	1 st Street Address Summary
<pre> },</pre>	1 st Place name Summary
<pre> },</pre>
<pre> {"Id":14668463,</pre>	LAST ADDRESS
<pre> "StreetAddress":"17 Princes Drive",</pre>	Last Address Postcodes4u Address Reference
<pre> "Place":"Colwyn Bay"</pre>	Last Street Address Summary
<pre> }</pre>	Last Place name Summary
<pre>]});</pre>	

An example Postcode Address Search using XML is detailed below:

[http://services.3xsoftware.co.uk/Search/ByPostcode/xml?username=uuuuuu&key=xxxx-xxxx-xxxx-xxxx
&postcode=11298ht&callback=yourCallbackFunctionName](http://services.3xsoftware.co.uk/Search/ByPostcode/xml?username=uuuuuu&key=xxxx-xxxx-xxxx-xxxx&postcode=11298ht&callback=yourCallbackFunctionName)

```
<Results xmlns="http://schemas.datacontract.org/2004/07/PostcodeAPI.Classes" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Summaries>
    <Summary>
      <Id>14832125</Id>
      <StreetAddress>3X Software Ltd</StreetAddress>
      <Place>23 Princes Drive Colwyn Bay</Place>
    </Summary>
    <Summary>
      <Id>14832128</Id>
      <StreetAddress>Aslets The Letting Agents Ltd</StreetAddress>
      <Place>23 Princes Drive Colwyn Bay</Place>
    </Summary>
    <Summary>
      <Id>14832119</Id>
      <StreetAddress>Barclays Bank Plc</StreetAddress>
      <Place>Raymond Court Princes Drive Colwyn Bay</Place>
    </Summary>
    ... Further Address Summary Entries ... Finally, ...
    <Summary>
      <Id>14832130</Id>
      <StreetAddress>17 Princes Drive</StreetAddress>
      <Place>Colwyn Bay</Place>
    </Summary>
  </Summaries>
</Results>
```

The XML Values returned for each address, stored as a 'Summaries' array of 'Summary' entries, are detailed below:

<Id>	- Postcodes4u Address Reference/Id
<StreetAddress>	- Street Address Summary
<Place>	- Place Name Summary

Postcode Address Select

`services.3xsoftware.co.uk/Search/ById/{format}?username={username}&key={key}&id={Id}[&callback={callbackfuncname}]`

Postcode Address Select Parameter Key

Format = JSON or XML

Username = Postcode Username

Key = Postcode Key

Id = Postcodes4u Address ID for address details required to return

CallBackFunctionName= Function Called to Process Returned Address Data

This returns an array of 'Full Results' objects containing all the postcode data for the specified address - in addition to the detailed address data it is also summarised into a 4 part address (Field 'Line1' to 'Line4') for generic Address display.

An example Postcode Address Selection using JSON is detailed below:

`http://services.3xsoftware.co.uk/Search/ById/json?username=uuuuu&key=xxxx-xxxx-xxxx-xxxx& id=14832125&callback=yourCallbackFunctionName`

```
yourCallbackFunctionName({"Address":{"AddressId":14832125,"AdministrativeCounty":"Conwy","Barcode":"","BuildingName":"","BuildingNumber":"23","Company":"3X Software Ltd","CountryName":"","County":"Clwyd","DeliveryPointSuffix":"1F","Department":"","DependentLocality":"","DoubleDependentLocality":"","Easting":284817,"Latitude":53.2973366,"LatitudeShort":53.297,"Line1":"3X Software Ltd","Line2":"23 Princes Drive","Line3":"Colwyn Bay","Line4":"LL29 8HT","Longitude":-3.72968817,"LongitudeShort":-3.729,"Northing":379215,"Pobox":"","PostTown":"Colwyn Bay","PostalCounty":"Clwyd","Postcode":"LL29 8HT","PrimaryStreet":"Princes Drive","PrimaryStreetName":"Princes","PrimaryStreetType":"Drive","SecondaryStreet":"","SecondaryStreetName":"","SecondaryStreetType":"","StreetAddress1":"3X Software Ltd","StreetAddress2":"23 Princes Drive","StreetAddress3":null,"SubBuilding":"","TraditionalCounty":"Denbighshire","Type":""}});
```

A detailed description of the data returned for a Postcode Address Selection using JSON is described below.

yourCallbackFunctionName

The name of the callback function you want to call to process the returned address summaries as specified in the request.

{ **"Address":{**

Address is the data item of the full address details.

"AddressId":14832125,

Postcodes4u Address Reference/Id

"AdministrativeCounty":"Conwy",

Administrative County Name

"Barcode":"","

Post Office Barcode Data

"BuildingName":"","

Building Name

"BuildingNumber":"23",

Building Number

"Company":"3X Software Ltd",

Company Name

"CountryName":"","

Country Name

"County":"Clwyd",

County Name

"DeliveryPointSuffix":"1F",

Post Office Delivery Point Suffix Value

"Department":"","

Department Name

"DependentLocality":"","

Post Office Dependent Locality

"DoubleDependentLocality":"","

Post Office Double Dependent Locality

"Easting":284817,

Post Office 'Easting Position Value'

"Latitude":53.2973366,

Postcode Position Full 'Latitude' in degrees.

"LatitudeShort":53.297,

Postcode Position Short 'Latitude' in degrees (3dec places)

"Line1":"3X Software Ltd",

Processed/Summarised Address Line1

"Line2":"23 Princes Drive",

Processed/Summarised Address Line2

"Line3":"Colwyn Bay",

Processed/Summarised Address Line3

"Line4":"LL29 8HT",

Processed/Summarised Address Line4

"Longitude":-3.72968817,

Postcode Position Full 'Longitude' in degrees.

"LongitudeShort":-3.729,

Postcode Position Short 'Longitude' in degrees (3dec places)

"Northing":379215,

Post Office 'Northing Position Value'

"Pobox":"","

PO Box

"PostTown":"Colwyn Bay",

Post Town

"PostalCounty":"Clwyd",

Postal County Name

"Postcode":"LL29 8HT",

Postcode

"PrimaryStreet":"Princes Drive",

Primary Street

"PrimaryStreetName":"Princes",

Primary Street Name

"PrimaryStreetType":"Drive",

Primary Street Type

Postcode Address Selection using JSON continued.

```
"SecondaryStreet": "",           Secondary Street
"SecondaryStreetName": "",       Secondary Street Name
"SecondaryStreetType": "",       Secondary Street Type
"StreetAddress1": "3X Software Ltd", Street Address 1
"StreetAddress2": "23 Princes Drive", Street Address 2
"StreetAddress3": null,          Street Address 3
"SubBuilding": "",              Sub Building
"TraditionalCounty": "Denbighshire", Traditional County Name
"Type": ""                       Post Office Address Type
}});
```

An example Postcode Address Selection using XML is detailed below:

<http://services.3xsoftware.co.uk/Search/ById/xml?username=uuuuu&key=xxxx-xxxx-xxxx-xxxx&id=14832125&callback=yourCallbackFunctionName>

```
<Results xmlns="http://schemas.datacontract.org/2004/07/PostcodeAPI.Classes" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Address>
    <AddressId>14832125</AddressId>
    <AdministrativeCounty>Conwy</AdministrativeCounty>
    <Barcode/>
    <BuildingName/>
    <BuildingNumber>23</BuildingNumber>
    <Company>3X Software Ltd</Company>
    <CountryName/>
    <County>Clwyd</County>
    <DeliveryPointSuffix>1F</DeliveryPointSuffix>
    <Department/>
    <DependentLocality/>
    <DoubleDependentLocality/>
    <Easting>284809</Easting>
    <Latitude>53.29737</Latitude>
    <LatitudeShort>53.297</LatitudeShort>
    <Line1>3X Software Ltd</Line1>
    <Line2>23 Princes Drive</Line2>
    <Line3>Colwyn Bay</Line3>
    <Line4>LL29 8HT</Line4>
    <Longitude>-3.72980952</Longitude>
    <LongitudeShort>-3.729</LongitudeShort>
    <Northing>379219</Northing>
    <Pobox/>
    <PostTown>Colwyn Bay</PostTown>
    <PostalCounty>Clwyd</PostalCounty>
    <Postcode>LL29 8HT</Postcode>
    <PrimaryStreet>Princes Drive</PrimaryStreet>
    <PrimaryStreetName>Princes</PrimaryStreetName>
    <PrimaryStreetType>Drive</PrimaryStreetType>
    <SecondaryStreet/>
    <SecondaryStreetName/>
    <SecondaryStreetType/>
    <StreetAddress1>3X Software Ltd</StreetAddress1>
    <StreetAddress2>23 Princes Drive</StreetAddress2>
    <StreetAddress3 i:nil="true"/>
    <SubBuilding/>
    <TraditionalCounty>Denbighshire</TraditionalCounty>
    <Type/>
  </Address>
</Results>
```

A detailed description of the data returned for a Postcode Address Selection using XML is described below.

<AddressId>	Postcodes4u Address Reference/Id
<AdministrativeCounty>	Administrative County Name
<Barcode>	Post Office Barcode Data
<BuildingName>	Building Name
<BuildingNumber>, <Company>	Building Number Company Name
<CountryName>	Country Name
<County">	County Name
<DeliveryPointSuffix>	Post Office Delivery Point Suffix Value
<Department>	Department Name
<DependentLocality>	Post Office Dependent Locality
<DoubleDependentLocality>	Post Office Double Dependent Locality
<Easting>	Post Office 'Easting Position Value'
<Latitude>	Postcode Position Full 'Latitude' in degrees.
<LatitudeShort>	Postcode Position Short 'Latitude' in degrees (3dec places)
<Line1>	Processed/Summarised Address Line1
<Line2>	Processed/Summarised Address Line2
<Line3>	Processed/Summarised Address Line3
<Line4>	Processed/Summarised Address Line4
<Longitude>	Postcode Position Full 'Longitude' in degrees.
<LongitudeShort>	Postcode Position Short 'Longitude' in degrees (3dec places)
<Northing>	Post Office 'Northing Position Value'
<Pobox>	PO Box
<PostTown>	Post Town
<PostalCounty>	Postal County Name
<Postcode>	Postcode
<PrimaryStreet>	Primary Street
<PrimaryStreetName>	Primary Street Name
<PrimaryStreetType>	Primary Street Type
<SecondaryStreet>	Secondary Street
<SecondaryStreetName>	Secondary Street Name
<SecondaryStreetType>	Secondary Street Type
<StreetAddress1>	Street Address 1
<StreetAddress2>	Street Address 2
<StreetAddress3>	Street Address 3
<SubBuilding>	Sub Building
<TraditionalCounty>	Traditional County Name
<Type>	Post Office Address Type

Postcode Location Search

[services.3xsoftware.co.uk/Search/ByLatLong/{Format}?username={Username}&key={Key}&lat={Latitude}&long={longitude} \[&callback={callbackfuncname}\]](http://services.3xsoftware.co.uk/Search/ByLatLong/{Format}?username={Username}&key={Key}&lat={Latitude}&long={longitude} [&callback={callbackfuncname}])

Postcode Location Search Parameter Key	Format = JSON or XML	
	Username = Postcode Username	Key = Postcode Key
	Latitude = Latitude for search	Longitude = Longitude for search
	CallbackFunctionName = Function Called to Process Returned Address Data	

This returns an array of GeoSummary objects with Our 'Address ID', 'StreetAddress', 'Place' and 'Postcode'.

An example Postcode Location Search using JSON is detailed below:

<http://services.3xsoftware.co.uk/Search/ByLatLong/json?username=uuuuu&key=xxxx-xxxx-xxxx-xxxx&lat=53.297&long=-3.829&callback=yourCallbackFunctionName>

```
callbackfuncname({"GeoSummaries":[{"Id":14850437,"StreetAddress":"1 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850440,"StreetAddress":"2 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850441,"StreetAddress":"3 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850442,"StreetAddress":"4 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850443,"StreetAddress":"5 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850444,"StreetAddress":"6 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850445,"StreetAddress":"7 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850446,"StreetAddress":"8 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850447,"StreetAddress":"9 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850438,"StreetAddress":"10 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}, {"Id":14850439,"StreetAddress":"11 Rathbone Terrace","Place":"Deganwy Conwy","Postcode":"LL319EQ"}]});
```

A detailed description of the data returned for a Postcode Location Search using JSON is described below.

yourCallbackFunctionName	The name of the callback function you want to call to process the returned address summaries as specified in the request.
---------------------------------	---

<pre>({"GeoSummaries":[</pre>	GeoSummaries is an array of the summary addresses that match the specified latitude and longitude position
<pre> { "Id":14860809,</pre>	FIRST ADDRESS
<pre> "StreetAddress":"1 Rathbone Terrace",</pre>	1 st Address Postcodes4u Address Reference/Id
<pre> "Place":"Deganwy Conwy"</pre>	1 st Street Address Summary
<pre> "Postcode":"LL319EQ"</pre>	1 st Address Place Name Summary
<pre> },</pre>	1 st Address Postcode
<pre> {"Id":14550439,</pre>	LAST ADDRESS
<pre> "StreetAddress":"11 Rathbone Terrace",</pre>	Last Address Postcodes4u Address Reference
<pre> "Place":"Deganwy Conwy"</pre>	Last Street Address Summary
<pre> "Postcode":"LL319EQ"</pre>	Last Address Place Name Summary
<pre> }</pre>	Last Address Postcode
<pre>]);</pre>	

A detailed description of the data returned for a Postcode Location Search using XML is described below.

<http://services.3xsoftware.co.uk/Search/ByPostcode/xml?username=uuuuuuu&key=xxxx-xxxx-xxxx-xxxx&postcode=ll298ht&callback=yourCallbackFunctionName>

```
<Results xmlns="http://schemas.datacontract.org/2004/07/PostcodeAPI.Classes" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <GeoSummaries>
    <GeoSummary>
      <Id>14850437</Id>
      <StreetAddress>1 Rathbone Terrace</StreetAddress>
      <Place>Deganwy Conwy</Place>
      <Postcode>LL319EQ</Postcode>
    </GeoSummary>
    <GeoSummary>
      <Id>14850440</Id>
      <StreetAddress>2 Rathbone Terrace</StreetAddress>
      <Place>Deganwy Conwy</Place>
      <Postcode>LL319EQ</Postcode>
    </GeoSummary>
    ... etc ...
    <GeoSummary>
      <Id>14850439</Id>
      <StreetAddress>11 Rathbone Terrace</StreetAddress>
      <Place>Deganwy Conwy</Place>
      <Postcode>LL319EQ</Postcode>
    </GeoSummary>
  </GeoSummaries>
</Results>
```

The XML Values returned for each address, stored as a 'GeoSummaries' array of 'GeoSummary' entries, are detailed below:

<Id>	- Postcodes4u Address Reference/Id
<StreetAddress>	- Street Address Summary
<Place>	- Place Name Summary
<Postcode>	- Address Postcode