

Gas Retail Energy Location Data

April 2021

The logo for Xserve, featuring a stylized 'X' composed of blue and light blue geometric shapes, followed by the word 'serve' in a light blue sans-serif font.

Provided by:

The logo for Correlia, consisting of two overlapping circles, one blue and one yellow, followed by the word 'correlia' in a dark blue sans-serif font.

correlia

Obtaining Gas Meter Point REL Data

There are two main routes that gas suppliers can use to obtain the Retail Energy Location (REL) address data for gas meter points:

- Manually via the gas **Data Enquiry Service (DES)** screens
- Or via the **Supply Point Switching API** service (this service is also available to PCWs and TPIs)

In addition an API service has been developed to enable Gas Transporters to obtain REL data for meter points connected to their network. Details of this service have not been included here but further details are available on request.

DES Screen REL Search Function

The logo for Xserve, featuring the word "Xserve" in a blue sans-serif font. The "X" is stylized with a blue and light blue geometric design.

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DES Screen REL Search Function

- REL Search Screen
 - Valid/Invalid Search Combinations
 - Error Messages
- REL Search Field Mapping
- REL Search Results Screen
- REL Search Details Screen



REL Search Screen

This function enables users to search for associated MPL and REL addresses via a new dedicated search screen.

Users are required to confirm that this data is being used for the purposes of switching.

This follows the same basis of the current gas meter point search screen with the additional of the CSS Registration ID and UPRN

The screenshot shows the 'REL Search' page on the 'xoserve' website. The top navigation bar includes 'Home', 'UK Link', 'Data Enquiry', and 'User Access'. Below this is a secondary navigation bar with 'Home', 'Search', 'ICC Updates', 'Read Details', and 'REL Search' (highlighted with a green box). The main heading reads 'Please enter your search criteria'. The form is divided into two sections. The first section contains three input fields: 'Meter Point Reference', 'Confirmation Reference', and 'CSS Registration ID'. The second section contains several input fields: 'Building Number/Name' (split into two boxes), 'Street', 'Town', 'Full Postcode', 'Outcode/Incode' (split into two boxes), 'Meter Serial Number', and 'UPRN'. Below these fields is a checkbox with the text: 'Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose'. At the bottom right are 'Search' and 'Reset' buttons.

REL Search Screen

Where data is entered into a search field, the screen will grey out certain other fields to help prevent invalid search combinations from being entered

For example, Meter Point Reference Number is a unique to a single Address so all other search fields are greyed out if an MPRN is entered

The screenshot shows the 'REL Search' interface on the xoserve website. The top navigation bar includes 'Home', 'UK Link', 'Data Enquiry', and 'User Access'. Below this is a secondary navigation bar with 'Home', 'Search', 'ICC Update', 'Asset Details', and 'REL Search'. The main heading reads 'Please enter your search criteria'. The search form is divided into two sections. The first section contains three fields: 'Meter Point Reference' (with a blue information icon and the value '113'), 'Confirmation Reference', and 'CSS Registration ID'. The second section contains 'Building Number/Name', 'Street', 'Town', 'Full Postcode', 'Outcode/Incode', 'Meter Serial Number', and 'UPRN'. Below these fields is a checkbox labeled 'Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose', which is checked. At the bottom right are 'Search' and 'Reset' buttons.

REL Search Screen

Searches using the address fields allow more flexibility. Full address data can be entered for a specific search or a broader search, just via postcode for example, can be performed

Home UK Link Data Enquiry User Access

Home Search IOC Update Road Details REL Search

Home REL Search

Please enter your search criteria

Meter Point Reference [?](#)

Confirmation Reference [?](#)

CSS Registration ID [?](#)

Building Number/Name [?](#)

Street

Town

Full Postcode [?](#)

OR

Outcode/Incode [?](#)

Meter Serial Number [?](#)

UPRN [?](#)

Access to REL data is provided solely for the purpose of enabling switching. Please [click here](#) to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

Invalid Search Combination

Certain search combinations are not permitted in order to prevent searches that are too broad, Building Number and Street for example

If an an invalid search combination is attempted, the relevant error message will be displayed in red text at the top of the screen

Home Search ICC Update Read Details REL Search

Home REL Search

Please enter your search criteria

Please either enter a full Postcode or add an Outcode or the Town

Meter Point Reference 

Confirmation Reference 

CSS Registration ID 

Building Number/Name 

Street

Town

Full Postcode 

OR

Outcode/Incode 

Meter Serial Number 

UPRN 

Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

No Records Found

If a valid search is attempted but no records can be found matching the search criteria, an error message stating “No Records Found, Please modify the search criteria” will be displayed

The screenshot shows a web application interface for a search. At the top, there is a navigation bar with links for Home, Search, ICC Update, Read Details, and REL Search. Below the navigation bar, the page title is "Please enter your search criteria". A red message states "No Records Found. Please modify the search criteria". The search form contains several input fields: Meter Point Reference (with the value 11111111), Confirmation Reference, and CSS Registration ID. Below these, there are fields for Building Number/Name, Street, Town, and Full Postcode. An "OR" separator is followed by fields for Outcode/Incode, Meter Serial Number, and UPRN. A checkbox is checked, with the text "Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose". At the bottom right, there are "Search" and "Reset" buttons.

Home Search ICC Update Read Details REL Search

Home REL Search

Please enter your search criteria

No Records Found. Please modify the search criteria

Meter Point Reference 11111111

Confirmation Reference

CSS Registration ID

Building Number/Name

Street

Town

Full Postcode

OR

Outcode/Incode

Meter Serial Number

UPRN

Access to REL data is provided solely for the purpose of enabling switching. Please tick here to confirm you understand you are not permitted to use the data for any other purpose

Search Reset

REL Search Field Mapping

Address Search fields entered as part of a valid search combination will be matched against specified fields within the MPL and REL Address database to identify a match

A record will be considered a match if the searched values are found within either the MPL or REL Address database in line with the mapping tables shown on this slide

A search resulting in multiple MPL address records being matched will display on the REL Search Results screen

A search resulting in a single MPL record being matched will display on the REL Search Details screen

Address Search Field Mapping

REL Search Field	MPL Address Fields Matched Against	REL Address Fields Matched Against
Building Number	Building Number	Primary Name Secondary Name
Building Name	Building Name	Primary Name Secondary Name
Street	Street	Street1 Street2 Locality1 Locality2
Town	Town	Town
Full Postcode	Postcode	Postcode
Outcode	Outcode	Outcode

Unique Search Field Mapping

REL Search Field	System Field
Meter Point Reference	The given value should be matched only against the Meter Point Reference Number in the system
Confirmation Reference	The given value should be matched only against the Confirmation Reference in the system
CSS Registration ID	The given value should be matched only against the CSS Registration ID in the system
IUPRN	The given value should be matched only against UPRN provided by CSS as part of REL address

REL Search Results Screen

The REL Search Results screen lists the matched MPL addresses with any associated REL addresses displayed below it

By selecting an MPL Address from the list, the REL Search Details screen will be displayed

*Screenshot displays test REL address data so the associated MPL and REL address are not necessarily similar

The screenshot shows the 'REL Search Results' page. At the top, there are navigation tabs: Home, UK Link, Data Enquiry, and User Access. Below that, a secondary navigation bar includes Home, Search, IOC Update, Read Details, and REL Search. The main heading is 'REL Search Results'. The search criteria is 'Address: GL4 [redacted]'. The results are displayed in a table with columns for MPL Address, REL Address, and REL Postcode. The first result shows a matched MPL address with a corresponding REL address '1, 2, HIGH STREET, BIRMINGHAM' and postcode 'B1 1AA'. The subsequent three results show 'No REL Addresses Found' for the same MPL address.

MPL Address	REL Address	REL Postcode
[redacted]	1, 2, HIGH STREET, BIRMINGHAM	B1 1AA
[redacted]	No REL Addresses Found	
[redacted]	No REL Addresses Found	
[redacted]	No REL Addresses Found	

REL Search Details Screen



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[log out](#)

[Home](#) [UK Link](#) [Data Enquiry](#) [User Access](#)

[Home](#) [Search](#) [ICC Update](#) [Road Details](#) [REL Search](#)

[Home](#) [REL Search](#) [Results](#) [REL Search Details](#)

REL Search Details

MPRN	C88 Registration ID	C88 UPRN	MPL Address	MPL Postcode	MRN
				GL	

Address Source	Primary Name	Secondary Name	Street 1	Street 2	Locality 1	Locality 2	Town	Postcode	Logical Status	Language	Organisation	Address Type	Confidence Score	Classification	Latitude	Longitude
MPL	1	2	High Street				Birmingham	B1 1AA	Alternative	ENG	CSSC	LPI	990	Test1	53.253200	4.309900

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The REL Search Details screen displays the full details for a specific MPL address and the associated REL addresses

Supply Point Switching API

The logo for Xserve, featuring a stylized 'X' composed of blue and light blue geometric shapes followed by the word 'serve' in a light blue sans-serif font.

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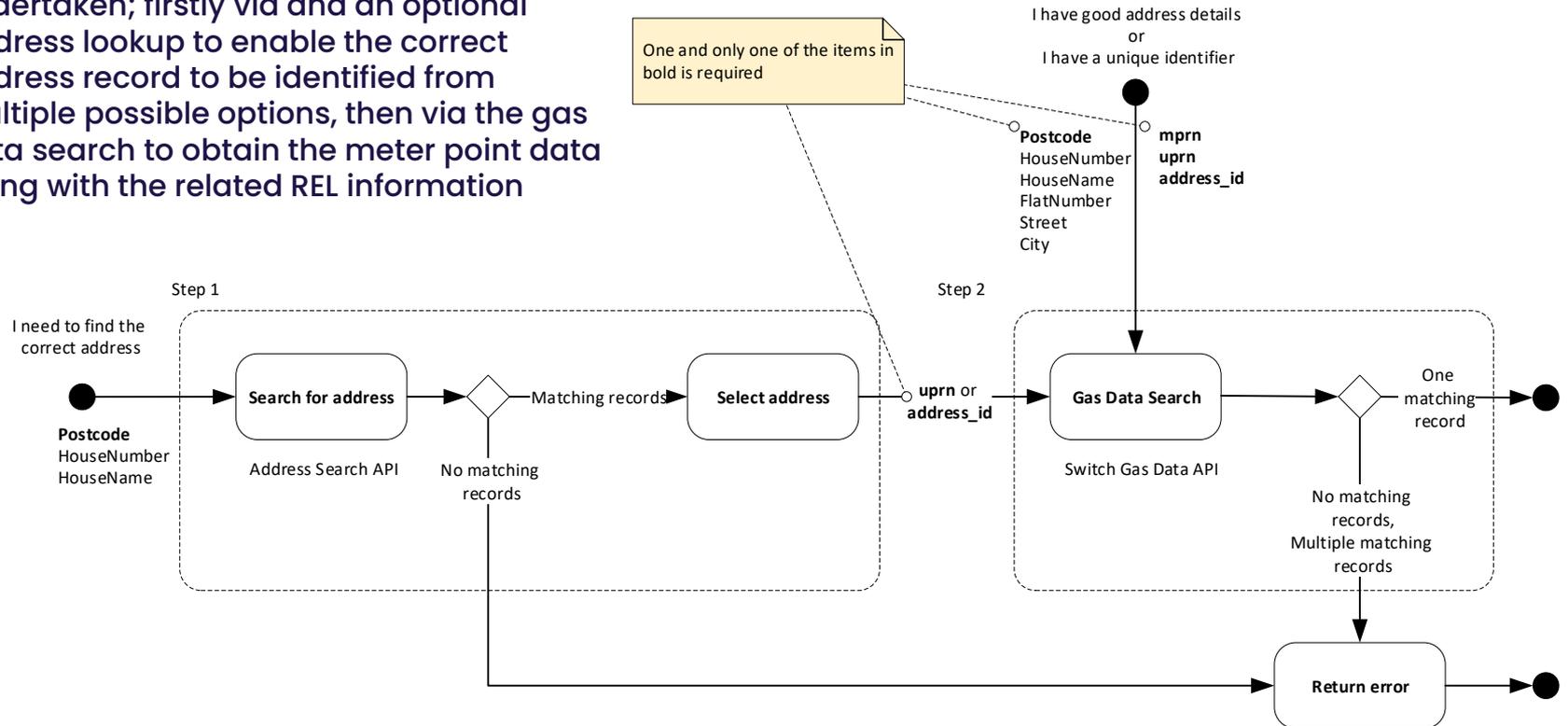
Supply Point Switching API

- Process Overview
- Supply Point Switching Address Search API
- Supply Point Switching Switch Gas Data API



Supply Point Switching API Process Overview

This API allows for a two step search to be undertaken; firstly via an optional address lookup to enable the correct address record to be identified from multiple possible options, then via the gas data search to obtain the meter point data along with the related REL information



Supply Point Switching Address Search API

Address Search API Input Data Items

The address search API allows for user to search for address details based on a limited set of data to enable multiple address records to be returned to enable easy identification of an address.

The search request for the Switching API is a URL encoded query string such as you would see in the internet browser address bar.

Method: GET

Route: /query/v1/supply-point-address

Input query string: /query/v1/supply-point-address?**postcode**=value&houseNumber=value&houseName=value

Items in bold are mandatory (**postcode**)

/query/v1/supply-point-address?postcode=AB1%203CD&houseNumber=21a

Address Search API Response

The address search will use the input values provided to identify the all matching address records across both the Meter Point Location and Retail Energy Location data sets and will provide full address details as shown in the example.

The Address ID will only be provided where a MPL match has been found for the input, and the UPRN where a REL address is found.

/query/v1/supply-point-address?postcode=AB11%20XX& houseNumber=001

```
{
  "switchAddress": [ {
    "addressId": "6011773466",
    "uprn": 9000000110,
    "country": "England",
    "county": "Aberdeenshire",
    "deliveryPointAlias": "",
    "dependentLocality": "",
    "dependentStreet": "",
    "doubDependentLocality": "",
    "houseName": "",
    "houseNumber": "00",
    "poBoxNumber": "",
    "postcode": "AB11 7XX",
    "street": "FLINTHILL TERRACE",
    "subBuildingName": "FLAT 1",
    "town": "Aberdeen"
  },
  {
    "addressId": "6011773466",
    "uprn": 9000000110,
    "country": "",
    "county": "",
    "deliveryPointAlias": "",
    "dependentLocality": "",
    "dependentStreet": "",
    "doubDependentLocality": "",
    "houseName": "00",
    "houseNumber": "FLAT 1",
    "poBoxNumber": "",
    "postcode": "AB11 7XX",
    "street": "FLINTHILL TERRACE",
    "subBuildingName": "FLAT 1",
    "town": "ABERDEEN"
  }
],
  {
    "addressId": "6011773466",
    "uprn": 9000000110,
    "country": "",
    "county": "",
    "deliveryPointAlias": "",
    "dependentLocality": "",
    "dependentStreet": "",
    "doubDependentLocality": "",
    "houseName": "00",
    "houseNumber": "FLAT A",
    "poBoxNumber": "",
    "postcode": "AB11 7XX",
    "street": "FLINTHILL TERRACE",
    "subBuildingName": "FLAT A",
    "town": "ABERDEEN"
  }
]
}
```

Match found in MPL
and REL records

Match found in REL
records

Address Search API Error Response

If there is a problem processing the request then the relevant error details will be returned

```
{
  "fault": [{
    "faultString": "Request cannot be processed because
invalid query parameter(s) supplied.",
    "detail": {
      "errorCode": "XSCH6003",
      "item": "houseNumber "
    }
  ]
}
```

Supply Point Switching Gas Data API

Gas Data Search API Input Data Items

The gas data search API allows for users to search for details of a single meter point based on either the Address Search output (via the Address ID or UPRN), through an expanded address data set or directly via the MPRN.

The search request for the Switching API is a URL encoded query string such as you would see in the internet browser address bar.

Method: GET

Route: /query/v1/switch

Input query string:

/query/v1/switch?**addressId**=value&**meterPointReferenceNumber**=value
uprn=value&**postcode**=value&houseNumber=value&houseName=
value&flatNumber=value&street=value&city=value

One and only one of the items in bold is required (**addressId**, **uprn**, **meterPointReferenceNumber**, **postcode**)

Gas Data API Response

The gas data API will use the input values provided to identify the single matching Meter Point record, where address data was used the search will be undertaken against address records in both the Meter Point Location and Retail Energy Location data sets.

The full set / array of REL address details for the MPRN will be provided as per the information received from CSS.

`/query/v1/switch?addressId=71878423`

```
{ "switchGasData": [{
  "addressId": "XXXXXXXX",
  "houseName": "",
  "houenumber": "X",
  "country": "GB",
  "county": "",
  "currentSupplierId": "ABC",
  "currentSupplierRegEffectiveDate": "2019-08-07T00:00:00.000Z",
  "pendingSupplierRegEffectiveDate": "",
  "deliveryPointAlias": "",
  "dependentStreet": "",
  "dmq": "17799",
  "doubleDependentLocality": "",
  "gasTransportId": "Sample Gas Networks Plc.",
  "ldz_id": "SE",
  "meter_capacity": "1",
  "meter_mechanism_code": "NS",
  "meter_serial_number": "XXXXXXXXXX",
  "mpaq": "17799",
  "meterPointReferenceNumber": "XXXXXXXXXX",
  "ndmq": "18467",
  "poBoxNumber": "",
  "postTown": "LONDON",
  "postcode": "XX XXX",
  "smartEquipmentTechnicalCode": "BRG",
  "street": "NUTHURST AVENUE",
  "subBuildingName": "",
  "addressSource": "Match",
  "uprn": "100023336956",
  "relAddress": [{
    "primaryName": "4",
    "secondaryName": "",
    "street1": "Sample Terrace",
    "street2": "",
    "locality1": "Inverbervie",
    "locality2": "",
    "town": "Montrose",
    "postcode": "AA10 0BC",
    "logicalStatus": "1",
    "language": "ENG",
    "organisation": "",
    "addressType": "LPI",
    "confidenceScore": "1",
    "classification": "",
    "latitude": "52.411800000000",
    "longitude": "1.777600000000"
  ]
}]
}
```

Gas Data Search API Error Response

If there is a problem processing the request then the relevant error details will be returned.

If multiple MPRN records are identified for the input data provide then an error response will be returned.

```
{
  "fault": [{
    "faultString": "Request cannot be processed because
invalid query parameter(s) supplied.",
    "detail": {
      "errorCode": "XSCH6003",
      "item": "houseNumber "
    }
  ]
}
```

Supply Point Switching API – Error Codes

Supply Point Switching Address Search API Error Codes

Validation	HTTP Code	Rejection Code	Description
Twinstream	422 – Unprocessable Entity	e002	“Requested address has twin stream meter device. You are not authorised to view this data.”
Shared Supply	422 – Unprocessable Entity	e003	“Requested address has shared supply meter device.You are not authorised to view this data.”
Twinstream and Shared Supply	422 – Unprocessable Entity	e004	“Requested address has twin stream and shared supply meter device. You are not authorised to view this data.”
Extinct meter point status.	422 – Unprocessable Entity	e005	“Requested address has extinct meter point status. You are not authorised to view this data”
MPRN not found	404 – Not Found	e007	“Requested meter reference number is not found”
MPRN has more than one matching records	422 – Unprocessable Entity	e008	“Requested meter reference number has more than one matching records; data can only be provided for unique match”
Multiple records at address	422 – Unprocessable Entity	e009	Submitted address details has multiple records; data is only provided for unique number”
No matching record for address	404 – Not Found	e011	“Requested address has no matching record. This may be because, there is no gas meter at this property (or) full postcode with a space is not entered (or) the entered details are incorrect ”.

Useful Links

For more information on Xoserve's Data Enquiry Service and the consequential changes that are being made to DES and APIs for the inclusion of Retail Energy Data can be accessed via the following links:

Data Enquiry Service Overview / User Guides

<https://www.xoserve.com/systems/data-enquiry-service/>

UK Link and DES Business Requirements Documents

<https://www.xoserve.com/change/switching-programme/>

API Change Documentation

<https://xoserve.sharepoint.com/:f:/r/sites/UKLink/Shared%20Documents/3.%20UK%20Link%20Interface%20Documents/3c.%20For%20Approval/CSSC%20API%20Documentation?csf=1&web=1&e=mXC9q7>

Thank you

