GES Supply Point Switching API Technical Specification

Version Control

Version (Status)	Description	Date	Contributor
V1.0	Live	18/07/2022	
V1.1	Update – remove link to code of connection under Section 1.1, 1.3 and 2.4.1 Link updated in Sections 4.2 and 5.1.2 Addition of “Enumeration” section 5.2	28/05/2024	Mike Orsler
V1.2	Added section 5.3 - Error Codes	01/08/2024	Andrew Steed
V1.3	Added new R0120 input parameters (MSN & Postcode Outcode) under sections 3.2.1 and 3.3.1 Section 5.5.1 Address Search output parameters table corrected	27/06/2025	Andrew Steed

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1 Introduction

1.1 Document Overview

The purpose of this document is to define the UK Link Xoserve API Interfaces at a technical level to enable Xoserve customers to update their current systems to meet the new requirements.

Xoserve will adopt industry-standard API security practices (the Code of Connection document is provided to the user upon their procurement of the API service) to provide application interfaces for the following authorised GB Gas Industry Customers:

- Gas Suppliers
- Price Comparison Websites (PCWs)
- Third Party Intermediaries (TPIs)

This document does not cover the Code of Connection (CoCo). The Code of Connection document is provided to the user upon their procurement of the API service.

1.2 Document Scope

This document covers the following Gas Service Query APIs:

- Supply Point Switching API - REL data added to the existing API service (Suppliers, TPIs, PCWs)
    - Supply Point Switching Address Search API
    - Supply Point Switching Switch Gas Data API

1.3 Connectivity and Security

The Xoserve API solution will be an internet-facing service.

The network connectivity and authorisation design is detailed in the Code of Connection, which accompanies the Interface specification. This should be used to determine how to connect with the Xoserve API.

2 API Design Technical Overview

2.1 Input Data Items

A query string will be used to send data to a server via a GET request. Parameters may be provided in any order:

/api/v1/path_to_service?[query_parameters]

Example:

/api/v1/switchaddress?postcode=AB3%204ZZ&house_no=12

2.2 Output Data

Output data will be returned in JSON format:

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Example:


```
{
    "data": [{
          "addressId":1234567891,
          "houseName":"",
          "houseNumber":"12",
               omitted for brevity
          }]
}
```

[1] [ ] indicates that multiple records may be returned (this will be indicated where applicable and is included here for the purpose of demonstration only).

2.3 Error Data

Each API will generate an error response when it encounters an issue and provide an appropriate error code.

Error data for all APIs will be returned in JSON format:


```
{
   "fault": [{
      "faultstring": "string",
      "detail": {
         "errorcode": "string",
         "item": "string"
      }
   }]
}
```

[1] [ ] indicates that multiple records may be returned

2.4 Common Elements

2.4.1 Header Information [Request]

#	Header Property Name	Header Options	Header Optionality
1	X-API-Key		Required
2	Cache-Control	“no-store”	Optional
3	content-type	“application/json”	Optional

The Code of Connection states: The OAuth 2.0 based authentication/authorisation process will return a JSON Web Token (JWT) which holds the authorisation claims of the calling application which must be presented in the header of each call to the API, and provides details of how to obtain, use and refresh the JWT.

2.4.2 Query Parameters

This API service will accept query parameters and generate a synchronous response message.

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2.5 Special Characters

All messages must be URL encoded.

Special characters provided in the URL must be URL-encoded. Characters that are not encoded will return an error as defined in the Error Handling Strategy.

Meaning	Character
Exclamation mark	!
Double quotation mark / Speech Mark	“
Pound Sterling sign	£
Dollar sign	$
Percentage	%
Caret	^
Ampersand	&
Asterisk	*
Opening parenthesis	(
Closing parenthesis	)
Logical not sign	¬
Accent	`
Equals sign	=
Hyphen / Minus / negative sign	-
Plus / positive sign	+
Underscore	_
Semi colon	;
Colon	:
Apostrophe / single quotation mark	‘
At sign	@
Hash / pound sign	#
Tilde operator	~
Less than	<
Greater than	>
Question mark	?
Solidus / oblique / slash	/
Comma	,
Full stop / period	.
Vertical bar	|
Back slash	\

3 Supply Point Switching API

Supply Point Switching API provides two methods of querying, using address details which will return address ID, which can then be used as an input to the Switch Gas Data Input.

The existing Supply Point Switching API has been modified to include Retail Energy Location (REL) address.

This service is currently available to authorised GB gas industry customers i.e. Price Comparison Websites (PCWs), Third Party Intermediaries (TPIs) and Suppliers; who are working to provide improvements to the supplier switching process. As part of this change, this API service is required to be extended to Shippers as an eligible gas industry customer.

Available to:

- Gas Suppliers
- Price Comparison Websites (PCWs)

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- Third Party Intermediaries (TPIs)

3.1 Scope

The Supply Point Switching API will return data for domestic and non-domestic sites.

3.2 Supply Point Switching Address Search API

3.2.1 Input Data Items

#	Name	JSON	Type	Length	Description
1	Postcode	postcode	String	10	Postcode
2	House Number	houseNumber	String	10	House Number
3	House Name	houseName	String	60	House Name
4	Meter Serial Number	meterSerialNumber	String	18	Meter Serial Number
5	Postcode Outcode	postcodeOutcode	String	4	Postcode Outcode

Method: GET

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

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

Providing one and only one of the items in bold is mandatory (**postcode, meterSerialNumber**)

3.2.2 Output Data Items

3.2.2.1 Supply Point Switching Address Search API Output Parameters

Appendix 5.1 provides a full data definition of the output parameters that are included within the API (as shown below in JSON format only).

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3.2.2.2 Supply Point Switching Address Search API Output JSON


```
{
"switchAddresses":  [{
  "addressId": "string",
  "uprn": "string",
  "country": "string",
  "county": "string",
  "deliveryPointAlias": "string",
  "dependentLocality": "string",
  "dependentStreet": "string",
  "doubDependentLocality": "string",
  "houseName": "string",
  "houseNumber": "string",
  "poBoxNumber": "string",
  "postcode": "string",
  "street": "string",
  "subBuildingName": "string",
  "town": "string"
 }]
}
```


3.3 Supply Point Switching Switch Gas Data API

3.3.1 Input Data Items

#	Name	JSON	Type	Length	Description
1	Address_id	addressId	String	30	Internal ID that links MRPN to address data.
2	mprn	meterPointReferenceNumber	String	50	Meter Point Reference Number (MPRN). A unique identifier for the point at which a meter is, has been or will be connected to the Gas network.
3	uprn	uprn	Number	12	Unique Property Reference Number
4	Postcode	postcode	String	10	Postcode
5	house_no	houseNumber	String	10	House Number
6	houseName	houseName	String	60	House Name
7	flat_no	flatNumber	String	40	Flat Number
8	street	street	String	40	Street
9	city	city	String	40	City
10	Meter Serial Number	meterSerialNumber	String	18	Meter Serial Number
11	Postcode Outcode	postcodeOutcode	String	4	Postcode Outcode

Method: GET

Route: /query/v1/switch

Example Input query string:

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

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Providing one and only one of the items in bold is mandatory (**addressId**, **uprn**, **meterPointReferenceNumber**, **postcode, meterSerialNumber**)

3.3.1.1 Output Data Items

3.3.1.2 Supply Point Switching Switch Gas Data API Output Parameters

Appendix 5.1 provides a full data definition of the output parameters are included within the API (as shown below in JSON format only).

3.3.1.3 Supply Point Switching Switch Gas Data API Output JSON


```
{
"switchGasData": [{
        "addressId": "string",
        "houseName": "string",
        "houseNumber": "string",
        "country": "string",
        "county": "string",
        "currentSupplierId": "string",
        "currentSupplierRegEffectiveDate": "string",
        "pendingSupplierRegEffectiveDate": "string",
        "deliveryPointAlias": "string",
        "dependentStreet": "string",
        "dmq": number,
        "doubleDependentLocality": "string",
        "gasTransportId": "string",
        "ldzId": "string",
        "meterCapacity": "string",
        "meterMechanismCode": "string",
        "meterSerialNumber": "string",
        "mpaq": number,
        "mprn": "string",
        "ndmq": number,
        "poBoxNumber": "string",
        "postTown": "string",
        "postcode": "string",
        "smartEquipmentTechnicalCode": "string",
        "street": "string",
        "subBuildingName": "string",
        "amr_indicator": "string",
        "convertor_indicator": "string",
        "correction_factor": "string",
        "current_supplier_name": "string",
        "exit_zone": "string",
        "formula_year_supply_meter_point_aq": 0
        "icuktsflg": "string",
        "incoming_supplier": "string",
        "installing_supplier_id": "string",
        "last_meter_read_date": "string",
        "last_meter_read_type":  "string",
```


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```
        "last_meter_read_value": "string",
        "market_sector_code": "string",
        "meter_device_status": "string",
        "meter_imperial_indicator": "string",
        "meter_installation_date": "string",
        "meter_location": "string",
        "meter_manufacturer": "string",
        "meter_model": "string",
        "meter_number_of_dials": "string",
        "meter_point_status": "string",
        "meter_type": "string",
        "meter_units": "string",
        "meter_year_of_manufacture": "string",
        "network_name": "string",
        "previous_supplier_name": "string",
        "previous_supplier_short_code": "string",
        "addressSource": "string",
        "uprn": number,
        "relAddress": ["REL Address Payload – section 4.3"]
    }]
}
```


4 REL Address Elements

4.1 Static REL Address Data

Name	Type	Length	Description
addressSource	string	10	How the address has been derived
uprn	number	12	Unique Property Reference Number

4.2 REL Payload Data

The REL Payload Data provides information in the order that the data is provided by the Address Management Service consistent with the defined structure of the Market Message providing the REL Address as defined in the REC Schedule - Address Management Section 10.3.

IMPORTANT: API developers should note that the logical display order for the REL Address Data Elements is: Secondary Name, Primary Name, Street 2, Street 1, Locality 2, Locality 1, Town.

The API is not provided in the logical display order. Developers should consider each data item based its description rather than its Data Item name.

For example: recipients of the REL Payload Data should note that users of REL data will consider that street2 should be read prior to street1 and that locality2 should be read prior to

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locality1. When consuming this data to present to users – for example, by screen display or mailing – API recipients may wish to reverse the order in which these fields are presented.

Name	Type	Length	Description
primaryName	string	90	This is the Primary Addressable Object description. This is normally the name and or number of the property
secondaryName	string	90	This is the Secondary Addressable Object description, e.g. the “Flat 2” in the address “Flat 2, London House, Exeter”. This is only relevant for a child property. “London House” in this case will the Primary Name of the parent property
street1	string	100	LPI[1] - derived from Street DPA[2] - the Thoroughfare
street2	string	80	LPI – Blank DPA - dependant thoroughfare
locality1	string	35	LPI – derived from Street – Using locality code lookup DPA – dependant locality
locality2	string	35	LPI - Blank DPA – double dependant locality
town	string	30	LPI – Derived from Street – Using Town code lookup DPA – Post Town
postcode	string	8	Postcode associated with the address
logicalStatus	number	1	This is the status of the address. For allowable values see 5.2 Enumerations
language	string	3	The language of the address (ISO 639-2 Code). For example, in Wales you will usually have an English and Welsh address. It will be cym for Welsh.
organisation	string	60	Current organisation name of the property if one exists
addressType	string	3	The type of address of this entry in the array.
confidenceScore	number	3	A relative confidence score on the match from MPL to REL
classification	string	6	Classification code of the property as per the AddressBase Premium classification scheme
latitude	number	10,6	Latitude of the associated property, usually either the centroid of the building polygon or a general internal point within the building polygon
longitude	number	10,6	Longitude of the associated property, usually either the centroid of the building polygon or a general internal point within the building polygon

[1] See British Standard 7666
[2] The Delivery Point Address is derived from PAF (Postcode Address File) and identifies a property that receives deliveries from the Royal Mail

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4.3 REL Address Payload JSON

REL Address Payload contains the following information:


```
{
        "secondaryName": "string",
        "primaryName": "string",
        "street1": "string",
        "street2": "string",
        "locality1": "string",
        "locality2": "string",
        "town": "string",
        "postcode": "string",
        "logicalStatus": number,
        "language": "string",
        "organisation": "string",
        "addressType": "string",
        "confidenceScore": "string",
        "classification":"string",
        "latitude": number,
        "longitude": number
}
```


4.4 Use of REL Address

REL addresses provided via the Xoserve API must only be used for the purpose permitted - the licence CSS has agreed with Ordnance Survey.

The purpose, as defined in the agreement, is for the “purposes of enabling switching including (without limitation) for the purposes of design, development, testing, integration and live operational use.”[3]

[3] As defined in CSS Interface Design Specification

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5 Appendices

5.1 Supply Point Switching API Output Parameters

5.1.1 Address Search

#	Field Name	Type	Length	Description
1	address_id	String	50	Internal ID that links MPRN to address data.
2	Country	String	3	Country.
3	County	String	3	County.
4	delivery_point_alias	String	50	Delivery Point Alias.
5	dependent_locality	String	40	Dependent Locality.
6	dependent_street	String	40	Dependent Street.
7	doub_dependent_locality	String	40	Double Dependent Locality.
8	house_name	String	60	House Name.
9	house_number	String	10	House Number.
10	po_box_number	String	10	PO Box Number.
11	Postcode	String	10	Postcode.
12	Street	String	40	Street.
13	sub_building_name	String	40	Sub Building Name.
14	Town	String	10	Town.
15	Uprn	Number	12	Unique Property Reference Number.

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5.1.2 Switch Gas Data

#	Field Name	Type	Length	Description
1	address_id	String	30	Internal ID that links MPRN to address data.
2	house_name	String	60	House Name.
3	house_number	String	10	House Number.
4	country	String	3	Country.
5	county	String	3	County.
6	current_supplier_id	String	40	A unique three-character code used to identify the current supplier.
7	currentSupplierRegEffectiveDate	String	8	A datetime indicating the date on which the Supplier became the supplier of the RMP.
8	pendingSupplierRegEffectiveDate	String	8	A datetime indicating the date on which a subsequent Supplier will become the supplier of the RMP.
9	delivery_point_alias	String	50	Delivery Point Alias.
10	dependent_street	String	40	Dependent Street.
11	dmq	Decimal	(16,7)	Daily Metered current annual offtake quantity (AQ) of a Supply Meter Point. Value in kWh.
12	double_dependent_locality	String	40	Double Dependent Locality.
13	gas_transport_id	String	40	Unique Identifier for the Gas Transporter Organisation. For large Transporters, this can also be used to identify the geographical area where a metering point is located.
14	ldz_id	String	10	Unique reference code for the Local Distribution Zone (LDZ).
15	meter_capacity	String	15	The amount of gas that can be passed through the meter in a given time period. This is the manufacturer's maximum value.
16	meter_mechanism_code	String	40	The coded value of the description of the Meter Mechanism, an industry identifier for the type of equipment fitted e.g. credit or prepayment meter.
17	meter_serial_number	String	50	The manufacturer's meter serial number as held on the physical meter currently installed on the supply point.
18	mpaq	Decimal	(16,7)	The current annual offtake quantity (AQ) of a Supply Meter Point. Value in kWh.
19	mprn	String	50	Meter Point Reference Number (MRPN). A unique identifier for the point at which a meter is, has been or will be connected to the Gas Network.
20	ndmq	Decimal	(16,7)	Non-Daily Metered current annual offtake quantity (AQ) of a Supply Meter Point. Value in kWh.

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#	Field Name	Type	Length	Description
21	po_box_number	String	10	PO Box Number.
22	post_town	String	40	Post Town.
23	postcode	String	10	Postcode.
24	smart_equipment_technical_code	String	10	Specification ID of the smart meter.
25	street	String	40	Street.
26	addressSource	String	10	Address Source.
27	Uprn	Number	12	Unique Property Reference Number.
28	amr_indicator	String	1	Indicator to identify whether the site has AMR attached. For allowable values see 5.2 Enumerations
29	convertor_indicator	String	1	Indicator to identify whether the site has a convertor attached. For allowable values see 5.2 Enumerations
30	correction_factor	String	9	This is a fixed factor based on pressure/altitude/temperature
31	current_supplier_name	String	40	The name of the current Supplier
32	exit_zone	String	3	A unique reference for the Exit Zone
33	formula_year_supply_meter_point_aq	0	15	The Supply Meter Point AQ that is fixed throughout the formula year for determination of Transportation rates. For Class 3 and Class 4 Supply Meter Points.
34	Icuktsflg	String	1	Indicator to identify if there is more than one meter at the site (Twin Stream). For allowable values see 5.2 Enumerations
35	incoming_supplier	String	10	A unique three character code used to identify the Incoming Supplier
36	installing_supplier_id	String	3	The smart meter Supplier ID
37	last_meter_read_date	String	10	The date on which the last meter read recorded at the site
38	last_meter_read_type	String	2	Latest meter read type
39	last_meter_read_value	String	12	The last meter read value

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40	market_sector_code	String	10	A code that specifies that the site is used for domestic or industrial and commercial purposes. D = Domestic

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#	Field Name	Type	Length	Description
				I = Industrial and Commercial
41	meter_device_status	String	2	A code indicating the current status of the meter installed at the supply point. LI = Live; FA = Faulty; IN = Inactive; CU = Cut off Meter; CL = Clamped; CA = Capped; SP = Spin Cap; OT = Other; UN = Unknown; NI = Not Installed; RE = Removed.
42	meter_imperial_indicator	String	1	Indicator identifying if the meter measures volume of gas consumed in metric or imperial units. Y = Imperial meter; N = Metric meter
43	meter_installation_date	String	8	The date on which the meter was installed at the Supply Meter Point
44	meter_location	String	2	A code representing the location of a meter installed at the Supply Point VALUES: 0 - Unknown, 1 - Cellar, 2 - Under Stairs, 3 - Hall, 4 - Kitchen, 5 - Bathroom, 6 - Garage, 7 - Canteen, 8 - Cloakroom, 9 - Cupboard, 10 - Domestic, 11 - Front Door, 12 - Hall Cupboard, 13 - Kitchen Cupboard, 14 - Kitchen under the sink, 15 - Landing, 16 - Office, 17 - Office Cupboard, 18 - Outside WC, 19 - Pantry, 20 - Porch, 21 - Public Bar, 22 - Rear of Shop, 23 - Saloon Bar, 24 - Shed, 25 - Shop Front, 26 - Shop Window, 27 - Staff Room, 28 - Store Room, 29 - Toilet, 30 - Under Counter, 31 - Waiting Room, 32 - Meterbox, 98 – Other, 99 – Outside
45	meter_manufacturer	String	15	Identifies the Short code of meter manufacturer of the meter installed at the Supply Point
46	meter_model	String	30	The model of the meter installed at the Supply Meter Point
47	meter_number_of_dials	String	2	The number of dials on the meter installed at the Supply Meter Point
48	meter_point_status	String	10	The current status of the operability of the supply meter point. LI = Live; DE = Dead; CA = Capped; CL = Clamped; PL = Planned
49	meter_type	String	8	The type of meter installed at the Supply Point
50	meter_units	String	17,3	This contains the units the meter installed on a Supply Point is reading in e.g. 10, 100, 1000
51	meter_year_of_manufacture	String	4	The year of Manufacture of the meter installed at the Supply Point
52	network_name	String	40	Gas Distribution Network Name
53	previous_supplier_name	String	40	The name of the previous Supplier
54	previous_supplier_short_code	String	3	A unique three-character code used to identify the previous Supplier

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5.1.3 Sample Requests / Responses

5.1.3.1 Requests “Search Address”

The following is an example for the “Search Address” API request:

#	Request	Request description
1	/query/v1/supply-point-address?postcode=XXX%20XXX& houseNumber =X	Get Address Data by Postcode and House Number.

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5.1.3.2 Response “Search Address”

The following is an example of the “Search Address” API response:

#	Response	Response description

1	/query/v1/supply-point-address?postcode=AB11%207XX&houseNumber=00	{
		"switchAddresses": [{
		"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"

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#	Response	Response description

		},
		{
		"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"
		},
		{
		"addressId": "6011773466",
		"uprn": 9000000110,
		"country": "",
		"county": "",
		"deliveryPointAlias": "",
		"dependentLocality": "",
		"dependentStreet": "",
		"doubDependentLocality": "",
		"houseName": "00A",
		"houseNumber": "",
		"poBoxNumber": "",
		"postcode": "AB11 7XX",
		"street": "FLINTHILL TERRACE",
		"subBuildingName": "",
		"town": "ABERDEEN"
		}
		]
		}

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#	Response	Response description

	/query/v1/supply-point-address?postcode='XXX%20XXX'& houseNumber =X [Error]	{
		"fault": [{
		"faultString": "Request cannot be processed because invalid query parameter(s) supplied.",
		"detail": {
		"errorCode": "XSCH6003",
		"item": "houseNumber "
		}
		}]
		}

5.1.3.3 Requests “Switch Gas Data”

The following is an example for the “Switch Gas Data” API request:

#	Request	Request description
1	/query/v1/switch?addressId=XXXXXXXXXX	Get Switch Data by Address Identifier.
2	/query/v1/switch?meterPointReferenceNumber=XXXXXXX	Get Switch Data by MPRN.
3	/query/v1/switch?postcode=XXX%20XXX&houseNumber=X	Get Switch Data by Postcode and House Number (unique record only).

5.1.3.4 Responses “Switch Gas Data”

The following are examples of “Switch Gas Data” API responses:

#	Response	Response description
1	/query/v1/switch?addressId=XXXXXXXXXX	{ "switchGasData": [{ "addressId": "XXXXXXX", "houseName": "", "housenumber": "X", "country": "GB", "county": "", "currentSupplierId": "ABC", "currentSupplierRegEffectiveDate": "2019-08-07T00:00:00.000Z", "pendingSupplierRegEffectiveDate": "", "deliveryPointAlias": "", "dependentStreet": "", "dmq": "17799", "doubleDependentLocality": "",

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#	Response	Response description

		"gasTransportId": "Sample Gas Networks Plc.",
		"ldz_id": "SE",
		"meter_capacity": "1",
		"meter_mechanism_code": "NS",
		"meter_serial_number": "XXXXXXXXXX",
		"mpaq": "17799",
		" meterPointReferenceNumber": "XXXXXXXXX",
		"ndmq": "18467",
		"poBoxNumber": "",
		"postTown": "LONDON",
		"postcode": "XXX 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"
		}]
		}]
		}

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#	Response	Response description

2	/query/v1/switch?meterPointReferenceNumber=XXXXXXXXX	{ "switchGasData": [{
		"addressId": "XXXXXXXXX",
		"houseName": "",
		"housenumber": "15",
		"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": "XXXXXXXXXXX",
		"mpaq": "17799",
		" meterPointReferenceNumber": "XXXXXXXXX",
		"ndmq": "18467",
		"poBoxNumber": "",
		"postTown": "LONDON",
		"postcode": "XXX XXX",
		"smartEquipmentTechnicalCode": "BRG",
		"street": "NUTHURST AVENUE",
		"subBuildingName": "",
		"addressSource": "Match",
		"uprn": "100023336956",
		"relAddress": [{
		"primaryName": "4",
		"secondaryName": "",
		"street1": "Sample Terrace",
		"street2": "",
		"locality1": "Inverbervie",
		"locality2": "",
		"town": "Montrose",

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#	Response	Response description
		"postcode": "AA10 0BC", "logicalStatus": "1", "language": "ENG", "organisation": "", "addressType": "LPI", "confidenceScore": "1", "classification": "", "latitude": "52.411800000000", "longitude": "1.777600000000" }] }] }
3	/query/v1/switch?postcode=XXX%20XXX&houseNumber=X	{ "switchGasData": [{ "addressId": "XXXXXXXXXX", "houseName": "", "housenumber": "15", "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": "XXXXXXXXXXX", "mpaq": "17799", "meterPointReferenceNumber": "XXXXXXXX", "ndmq": "18467", "poBoxNumber": "", "postTown": "LONDON", "postcode": "XXX XXX", "smartEquipmentTechnicalCode": "BRG",

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#	Response	Response description

		"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"
		}]
		}]
		}

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5.2 Enumerations

For data returned in a search, enumerations indicate the set of possible values that will be returned.
This section lists the allowed values for specific data items.
Data elements with enumerations that are input parameters will be validated. If the enumerated value is not recognised, or a null value has been entered, then an error will be returned.

addressType

The type of address of this entry in the array.

Value	Description
DPA	Delivery Point Address
LPI	Land Property Identifier

amrIndicator

Indicates whether the site has AMR attached.

Value	Description
Y	Yes
N	No

consumptionDetailsRequired

This will indicate whether consumption details are required.

Value	Description
Y	Yes
Blank	No

dccServiceFlag

A DCC provided flag to indicate the status of the services being provided by the DCC to a Meter.

Value	Description
A	Active
S	Suspended
W	Withdrawn

dniIndicator

Indicator to identify whether DNI contract is in place.

Value	Description
Y	Yes
Blank	No

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ihdInstallStatus
Information from the Supplier regarding the status/existence of the In-Home-Display at a metering point.

Value	Description
I	Installed
D	Declined
E	Existing
F	Failed

igtChargingMethodology
The IGT charging methodology that is applied to the Supply Meter Point.

Value	Description
L	Legacy
R	RPC
I	Infill

igtTransportationChargeRateType
The IGT transportation rate type.

Value	Description
D	Pence Per Day
K	Pence Per Kilowatt

logicalStatus

This is the status of the address.

For applicable value refer to ‘CSS Data Definitions’ section of the CSS Physical Interface Design document.

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meterLinkCode

A code defining the functional relationship between meters (the way in which they are linked together) at a given location on the End User's site.

Populated only when output in conjunction with a RT_S64_OFFER recorded.

Value	Description
P	Primary Meter
S	Sub-Meter
F	Free-Standing Meter

meterLocationCode

A code representing the location of a meter.

Value	Description
0	Unknown
1	Cellar
2	Under Stairs
3	Hall
4	Kitchen
5	Bathroom
6	Garage
7	Canteen
8	Cloakroom
9	Cupboard
10	Domestic Science
11	Front Door
12	Hall Cupboard
13	Kitchen Cupboard
14	Kitchen Under Sink
15	Landing
16	Office
17	Office Cupboard
18	Outside WC
19	Pantry
20	Porch
21	Public Bar
22	Rear of shop

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Value	Description
23	Saloon Bar
24	Shed
25	Shop Front
26	Shop Window
27	Staff Room
28	Store Room
29	Toilet
30	Under Counter
31	Waiting Room
32	Meter Box (Outside)
98	Other
99	Outside

meterMechanism

The coded value of the description of the Meter Mechanism.

Value	Description
CR	Credit
MT	Mechanical Token
ET	Electronic Token
CM	Coin
PP	Prepayment
TH	Thrift
U	Unknown
NS	SMETS non-compliant
S1	SMETS Version 1
S2	SMETS Version 2

minimumMrfTypeCode

A code identifying a valid meter reading frequency. Only applies to class 4. The minimum read frequency that the Transporter will accept.

Value	Description
M	Monthly
A	Annually

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operationalStatus

Indicates the current operational status of the Meter Point.

Value	Description
Live	Live
Isolated	Isolated (to be populated with Date in format: YYYYMMDD
Pending	Pending Isolated

prevailingMeterReadBatchFrequency

The frequency on which reads will be sent for class3 supply meter points.

Value	Description
W	7 Days
F	14 Days
M	Monthly

seasonalLspIndicator

Indicates whether the Supply Meter Point is a Seasonal LSP.

Value	Description
Y	Yes
Blank	No

supplyMeterPointClass

Denotes the current class type for the Supply Meter Point.

Value	Description
1	Class 1
2	Class 2
3	Class 3
4	Class 4

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supplyPointCategory

The category of grouping for which gas is nominated for the Supply Meter Point.

Value	Description
VLDMC	
DMC	
NDMA	
DMAF	

withdrawalStatus

Identifies if the site is not registered to a Shipper or the current Shipper has withdrawn.

Value	Description
Y	Withdrawn
N	Not Withdrawn

ConvertorIndicator

Indicates whether the site has convertor attached.

Value	Description
Y	Yes
N	No

Icuktsflg

Indicates whether the site has more than one meter (Twin Stream).

Value	Description
Y	Yes
N	No

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5.3 Error Codes

Validation	HTTP Code	Rejection Code	Description
Authentication failed	401 Access Denied	N/A	“Unauthorised. Sorry, I can't let you in.”
Mandatory parameters missing	400 – Bad Request	XSCH6001	“Request cannot be processed because Mandatory parameters are missing.”
Message structure invalid	400 – Bad Request	XSCH6002	“Message structure invalid.”
Invalid query string	400 – Bad Request	XSCH6003	“Request cannot be processed because supplied parameters are invalid.”
Invalid query parameter(s) supplied	400 – Bad Request	XSCH6003	“Request cannot be processed because supplied parameters are invalid.”
MPRN not found	404 - Not Found	XBRU1010	Meter Point Reference Number is not found
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 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.”

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