



Supply Point Switching API v2



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2 Overview

The purpose of this API is to expose detailed supplier information, enabling subscribers to filter the data by MPRN, Address ID and Address details.

This REST API uses SAP API Management for traffic control and additional API security, which requires consumers to subscribe for this API Product in order to consume it with an API Key (mandatory).

3 API Parameters

3.1 Input Parameters

There are 3 different filters that could be applied to the API call, where at least 1 is mandatory. These are MPRN, ADDRESS_ID or POSTCODE, the latter could be combined with additional address details as specified below:

#	Name	Type	Length	Description
1	mprn	string	50	Meter Point Reference Number
2	address_id	string	30	Address ID
3	postcode	string	10	Post Code (Mandatory)
3.1	house_no	string	10	House Number
3.2	sub_building_name	string	40	Sub Building Name
3.3	street	string	40	Street
3.4	town	string	40	Town
3.5	county	string	3	County
3.6	country	string	3	Country
3.7	dependent_street	string	40	Dependent Street
3.8	dependent_locality	string	40	Double Dependent Locality

3.2 Output Parameters

The following Output parameters are included within the API:

#	Field Name	Type	Length	Description
1	address_id	string	30	Address ID
2	house_name	string	60	Building Name
3	house_number	string	10	Building Number
4	country	string	3	Country
5	county	string	3	County
6	current_supplier_id	string	40	Current Supplier ID
7	delivery_point_alias	string	50	Delivery Point Alias
8	dependent_street	string	10	Twin Stream Site Indicator
9	dmq	decimal	16, 7	Daily Meter Read Quantity (in kWh)
10	double_dependent_locality	string	40	Double Dependent Locality
11	gas_transport_id	string	40	Gas Transport ID
12	ldz_id	string	10	Local Distribution Zone ID
13	meter_capacity	string	15	Meter Capacity
14	meter_mechanism_code	string	5	Meter Mechanism Code

15	meter_serial_number	string	30	Meter Serial Number
16	mpaq	decimal	16, 7	Annual quantity (AQ) (in kWh)
17	mprn	string	50	MPRN (UC_POD_EXT)
18	ndmq	decimal	16, 7	Non Daily Metered Quantity (in kWh)
19	po_box_number	string	10	Post Box Number
20	post_town	string	40	Town
21	postcode	string	10	Post Code
22	smart_equipment_technical_code	string	10	Smart Equipment Technical Code
23	street	string	40	Street
24	sub_building_name	string	40	Sub Building Name / Flat Number
25	market_sector_code	string	10	Market Sector Code
26	network_name	date	40	Network Name
27	current_supplier_name	string	40	Current Supplier Name
28	incoming_supplier_id	string	10	Incoming Supplier ID
29	previous_supplier_name	string	40	Previous Supplier Name
30	previous_supplier_id	string	10	Previous Supplier ID
31	installing_supplier_id	string	40	Installing Supplier Name
32	amr_indicator	string	3	AMR Indicator
33	exit_zone	string	10	Exit Zone
34	meter_device_status	string	2	Meter Status
35	meter_type	string	8	Meter Type
36	meter_number_of_dials	string	2	Meter Number Of Dials
37	meter_imperial_indicator	string	1	Meter Imperial Indicator
38	meter_manufacturer	string	15	Meter Manufacturer
39	meter_model	string	30	Meter Model
40	meter_year_of_manufacture	string	4	Meter Year Of Manufacture
41	meter_installation_date	date	10	Meter Installation Date
42	meter_units	decimal	16, 7	Meter Units
43	meter_location	string	2	Meter Location
44	correction_factor	decimal	17, 12	Correction Factor
45	latest_meter_read_date	date	10	Latest Meter Read Date
46	latest_meter_read_type	string	2	Latest Meter Read Type
47	latest_meter_read_value	string	12	Latest Meter Read Value
48	formula_year_supply_meter_point_aq	string	40	Formula Year Supply Meter Point AQ
49	convertor_indicator	string	10	Convertor Indicator

4 Error Codes and Descriptions

The following table contains the implemented error codes

HTTP Code	Error Code	Fault String
400	-	-
500	steps.regexprotection.ThreatDetected	Regular expression threat is detected in the API request, please check the data entered.
401	steps.oauth.v2.FailedToResolveAPIKey	Application Key sent in API request is either empty or invalid.
500	policies.custom.config.1	Application creation process has not completed due to technical issues, please contact or raise a fault with the system administrator.
500	policies.custom.config.2	Application creation process has not completed due to technical issues, please contact or raise a fault with the system administrator.
500	policies.custom.config.3	Application creation process has not completed due to technical issues, please contact or raise a fault with the system administrator.
500	policies.ratelimit.SpikeArrestViolation	Number of API requests for [product] has exceeded the allowed spike limit of [] per [minute].
500	policies.ratelimit.QuotaViolation	Number of API requests for [product] has exceeded the allowed quota limit of [] per month.
400	e001	Request cannot be empty, please submit at least one unique identifier.
200	e002	Requested address has twin stream meter device. You are not authorised to view this data.
200	e003	Requested address has shared supply meter device. You are not authorised to view this data.
200	e004	Requested address has twin stream and shared supply meter device. You are not authorised to view this data.
200	e005	Requested address has extinct meter device. You are not authorised to view this data.
200	e006	Requested address has non domestic meter device. You are not authorised to view this data.
200	e007	Requested meter reference number is not found.
200	e008	Requested meter reference number has more than one matching records; data can only be provided for unique match.
200	e009	Submitted address details has multiple records; data is only provided for unique number.
500	e010	Unexpected error occurred while processing request
200	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.

5 Sample Request / Response

5.1 Requests

The following are the API requests:

#	Request	Request description
1	/v2/SwitchData.svc?mprn=9000598508	MPRN query option
2	/v2/SwitchData.svc?address_id=6006326612	ADDRESS_ID query option
3	/v2/SwitchData.svc?postcode=G43 1DT&house_no=105	Address details query option

5.2 Responses

For any positive response for the requests above, there will always be only **one** record returned:

#	Response	Response description
1,2,3	<pre>{ "mprn": { "address_id": 6001733490, "house_name": "", "house_number": "00", "country": "GB", "county": "", "current_supplier_id": "BGT", "delivery_point_alias": "", "dependent_street": "", "dmq": "9", ... }, "mprn": 1456477700, "ndmq": "0", ... "convertor_indicator": "N" }</pre>	Total 49 fields in the output Initial Version V1 (SwitchGas) = 24 fields Latest Version V2 (Switch Gas V2) = 25 fields

6 Common Elements

6.1 Header Information [Request]

#	Header type	Header Options	Header Optionality
1	APIKey		Required