RETAIL ENERGY CODE

GES Meter Asset Enquiry API Technical Specification

1. Overview

The purpose of this API is to expose detailed Meter Asset information, enabling subscribers to filter the data by MSN and MPRN details.

This REST API uses MS Azure 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).

2. API Parameters

2.1 Input Parameters

There are 2 mandatory filters that need to be applied to the API call. These are MSN and MPRN.

#	Name	Type	Length	Description
1	msn	string	30	The manufacturer's meter serial number as held on the physical meter currently installed on the supply point.
2	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.

2.2 Output Parameters

The following Output parameters are included within the API:

#	Field Name	Type	Length	Description
1	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
2	msn	string	30	The manufacturer's Meter Serial Number (MSN) as held on the physical meter currently installed on the supply point.
3	current_supplier	string	40	A unique three character code used to identify the current Supplier
4	current_supplier_name	string	40	Name of the current Supplier

5	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.
6	meter_mechanism	string	5	The coded value of the description of the Meter Mechanism
7	meter_type	string	8	The type of meter installed at the Supply Point
8	meter_model	string	30	Model of meter installed at the Supply Point
9	meter_year_of_manufacture	string	4	The year of Manufacture of the meter installed at the Supply Point
10	meter_installation_date	date	10	The date when the meter was installed
11	*service_effective_valid_from*	date	8	The date when the Supplier become effective for the Supply Point
12	meter_asset_manager_id	string	3	An identification number for the registered MAM for the Supply Point
13	meter_asset_manager_name	string	40	The company name of the registered MAM for the Supply Point
14	meter_asset_manager_effective_date	date	10	The date of when the MAM became effective for the Supply Point
15	meter_asset_provider_ID	string	3	A placeholder for the MAP ID data item; it should appear blank in the API

3. 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 a Meter Point Reference Number (MPRN) and Meter Serial Number (MSN).
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.

4. Sample Request / Response

4.1 Requests

The following are the API requests:

#	Request	Request description
1	/v1/meterAsset.svc?mprn=1485680104&msn=G4A0332 9120701	MPRN and MSN query option

4.2 Responses

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

#	Response	Response description
1,2,3	{ "meter": [{ "mprn": "1485680104", "msn": "G4A03329120701", "current_supplier": "BGT", "current_supplier_name": "British Gas Trading Limited", ... }] }	Positive responses

5. Common Elements

5.1 Header Information [Request]

#	Header Type	Header Options	Header Optionality
1	APIKey		Required

6. Version Control

Version (Status)	Description	Date	Contributor
V0.1 (First)	Draft	08/02/2022	Mark Pollard
V1.0	Live	18/07/2022	Mark Pollard