



EES API Interface Specification

Document Control

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C&C Group	Sarah Mower	10/07/2023
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Change History

Version	Date	Author	Reason for new version	Sections Affected
0.1	09/09/2018	Philip Smith	Initial draft	All
0.2	01/10/2018	Dave Young	Draft Review	All
0.3	01/10/2018	Philip Smith	Final Review Completed – Issue to Gemserv	All
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1.1	17/05/2019	Tom Kelly	ECC260 Changes	GetTechnicalDetailsByMpan, GetRelatedMPANs, Appendix A – Error Codes
1.2	18/07/2019	Paul Robinson	Minor correction to include the GetRelatedMPANs method in web method summary table	Summary of Available Web Service Methods Summary of Available Web Service Methods
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2.0.3	25/10/2021	C&C Group	Updated following RECCo Review	All
3.0.0	29/04/2021	Tom Kelly	CSS project updates	GetTechnicalDetailsByMpan, GetRELAddress, SearchRELAddress, GetCSSMessages, Error Codes

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3.0.1	01/09/2021	C&C Group	Update for REC v2.0 and publication	
3.0.2	15/10/2021	C&C Group	ECC371 – values for DCC Service Flag updated	3.1
3.0.3	25/10/2021	C&C Group	Updated following RECCo Review	All
3.1.0	26/10/2021	C&C Group	Updated to reflect CRD109	
3.1.0	21/01/2022	C&C Group	Correct error to parameter names in GET CSS Messages Parameters	
3.1.1	12/04/2022	C&C Group	Add information relating to expected display order of REL Address Data Items	
3.1.2	05/10/2022	C&C Group	Remove Reference to trial service Add reference to other EES Specification documents Response data item names corrected Response data items added for SearchAddress Remove indemnity statement (covered contractually)	2 References 15.5, 13.5 15.5 Document Control
3.1.3	02/03/2023	C&C Group	Updated following R22 Data Access Matrix implementation	
3.1.4	14/03/2023	C&C Group	Updated following MHHS Stage 0 implementation	GetAssociatedMPANs, GetTechnicalDetailsByMPAN, Domain Values Summary of Available Web Service Methods
3.1.5	10/07/2023	C&C Group	Clarification of character lengths, data item types, nullable values and example values	SearchUtilityAddress, GetTechnicalDetailsByMpan
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Commented [JM1]: MOP Up Change - to reflect amended baseline as a result of approved CP R0149. Changes not redlined as it is a change to baseline drafting not MHHS redlining. No changes made to CCAG approved MHHS drafting.

Commented [JM2]: Post MOP Up Assurance Review - updated to reflect updated MHHS design and minor errors identified through EES design and build.

Commented [JM3]: M6 Consultation Update - updated to reflect availability of the Associated and Related MPAN Effective to Dates for MHHS Migrated MPANs.

Commented [JM4]: Post M6 Consultation Response - updated to reflect comments received through M6 Consultation

References

No	Title
R1	ECOES Web Application Specification
R2	ECOES CSS Interface Specification

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1 Introduction

This document outlines the web service methods and data items that are exposed by the ECOES API web service.

This service incorporates the following:

- The service provides access to the electricity industry data from ECOES.
- The use of Key Value Pairs throughout the Request and Response objects allows for methods to easily be updated with new key value pairs, with the need for updating the WSDL.
- The service provides a RESTful interface, with both XML and JSON messages, in addition to the SOAP/XML interface.
- The terms Electricity Enquiry Service (EES) and ECOES have the same meaning in this document.
- **Developers should not rely on the order of the response data items from the API. Data items are not intended to be provided in a logical order and parties should therefore consider each data item and how it is intended to be used within that party's systems.**

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2 Service Overview

The ECOES API service provides access to the ECOES data set.

Access to service is granted via Industry Role specific subscriptions which can have one or many licenses associated with them. Each subscription can have the following restrictions in place

- Access to Methods can be restricted either completely or by calls per month.
- Access to Data Items can be restricted completely by Industry Role.
- Access to Data Items can be restricted by Template Role configuration.

Any subscription whose industry role is a Supplier or Distributor must have a corresponding ECOES2 Company Group associated with them.

The ECOES API service can be accessed by any of the following endpoints

	URL	Type
Main	https://www.ecoes.co.uk/WebServices/Service/ECOESAPI.svc	WCF
	https://www.ecoes.co.uk/WebServices/Service/ECOESAPI.svc/RESTful/JSON/	Restful JSON
	https://www.ecoes.co.uk/WebServices/Service/ECOESAPI.svc/RESTful/XML/	Restful XML
CSS	https://uit.ecoes.co.uk/WebServices/Service/ECOESAPI.svc	WCF
	https://uit.ecoes.co.uk/WebServices/Service/ECOESAPI.svc/RESTful/JSON/	Restful JSON
	https://uit.ecoes.co.uk/WebServices/Service/ECOESAPI.svc/RESTful/XML/	Restful XML

The service also provides a help document to show the Restful endpoints can be used.

<https://www.ecoes.co.uk/WebServices/Service/ECOESAPI.svc/RESTful/JSON/Help>

2.1 MHHS Impacts

The API has been updated to support the requirements of the MHHS Programme. While the overall impact on the API methods have been minimised where possible, any integration with the API following the implementation of the MHHS changes, will require supporting updates to the consuming system. This is primarily a result of the staggered migration approach designed by the programme.

2.1.1 Reverse Migration

For an initial period post go live, as defined in the MHHS Implementation Plan, the EES system, including the API, will need to be able to cater for handling MPAN and/or meter data that could remain under legacy arrangement OR under the new MHHS arrangements. In addition, it will cater for situations where an MPAN has been under MHHS arrangements but returned (temporarily) to Legacy arrangements.

API methods that contain MPAN/meter related data items will, as a minimum, have a new key that will confirm whether the MPAN in question is:

- 1) Still under Legacy Arrangements
- 2) Under MHHS Arrangements
- 3) Back under Legacy Arrangements having reverse migrated

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2.1.2 Data Item Changes

As a basic principle, changes in the data items resulting from MHHS vs legacy arrangements are being introduced with the aim of reduced complexity. In summary, any method where payload will be impacted by the MHHS changes, will have new keys added to support the new data items available for MPANs serviced via the DIP. The below table describes the implications:

Data Items	Legacy Arrangements	MHHS Arrangements	Legacy following Reverse Migration
<u>MHHS Indicator</u>	<u>Always populated</u>	<u>Always populated</u>	<u>Always populated</u>
<u>Existing Data Items</u>	<u>Always populated</u>	<u>Available unless data items are no longer available from DIP (EMPTY)</u>	<u>Always populated</u>
<u>New MHHS Data Items</u>	<u>Not populated (EMPTY)</u>	<u>Always populated</u>	<u>Not populated (EMPTY) except for those in the next row</u>
<u>Annual Consumption data (as a subset of MHHS data)</u>	<u>Not populated (EMPTY)</u>	<u>Always populated</u>	<u>Always populated but not updated (only correct as at reverse migration date)</u>

Please note that not all API methods contain data that is affected by MHHS related changes – as such not all methods will be changed. Section 4.1 provides details of all EES API methods and identifies those impacted by MHHS changes.

2.1.3 Post Migration Period Impacts

Once all MPANs have been migrated to be under MHHS Arrangements, data items required for the legacy arrangements only will no longer be required. At this point, further changes to the EES API will need to be progressed whereby the MHHS Indicator and any data tags that are available under legacy arrangements only, are removed.

3 Domain Values

There are a number of web methods that return an explicit set of valid values. The table below provides a full list of these domains and the possible valid values returned. Where the domain is defined within the REC Data Specification and the valid set of values is deemed as likely to change at some point in the future, a link will be provided to the relevant page of Catalogue held within the Energy Market Architecture Repository (EMAR).

Domain List

The only values that are unique to EES and returned by the EES API is the MHHS Indicator and Green Deal In Effect. Valid values for these are:

Domain	Value	Meaning
Green Deal in Effect	I	Active Green Deal
	F	No Active Green Deal
MHHS Indicator	I	Under MHHS Arrangements
	F	Under Legacy Arrangements
	R	Reverse Migrated back to legacy having been under MHHS Arrangements
DCC Service Flag	A	Active
	N	Non-Active
	↓	Installed Not Commissioned
Energisation Status	D	De-energised
	E	Energised
Green Deal Status	None	There are no expired, active or pending green deals for the MPAN.
	Expired	There are one or more Green Deals assigned to the MPAN, with an end date in the past.
	Active	There are currently one or more active Green Deals assigned to the MPAN.
	Pending	There is one or more Green Deal that is due to come into effect for the MPAN at a future date.
In Home Display Install Status	D	Declined — the customer has declined the offer to install an In Home Display by the Supplier.
	E	Existing — the customer already has an In Home Display when changing supplier
	↓	Installed — the customer has accepted the offer, by the Supplier, for an In Home Display and it has been installed.
LLF Class Indicator	As defined by the REC Data Specification	
Measurement Class	A	Non Half Hourly Metered
	B	Non Half Hourly Unmetered
	C	HH metered in 100kW premises
	D	Half Hourly Unmetered
	E	HH metered sub 100kW CT
	F	Half Hourly Metering Equipment at sub 100kW premises with current transformer or whole current and at Domestic Premises
	G	Half Hourly Metering Equipment at sub 100kW premises with whole current and not at Domestic Premises

Meter Type	As defined by the REC Data Specification	
MPAN Trading Status	N	New—The MPAN is a new MPAN created by a distributor and has no Supplier in place as yet.
	R	Registered—The MPAN has been registered to a Supplier, but the Supplier has not provided sufficient data to enable trading.
	T	Traded—The Supplier has provided all the required data to enable the MPAN to be set as trading.
	X	Disconnected—The MPAN has been recorded as disconnected.
Meter Location	A	Attic
	B	Bedroom
	C	Cellar/Basement
	D	Other not specified
	E	Indoors
	F	Not known
	G	Garage/Greenhouse
	H	Hall
	I	Cupboard
	J	Intake
	K	Kitchen
	L	Landing
	M	Sub Station
	N	TC Chamber
	O	Outbuilding/Barn
	P	Pole
	R	Ladder required
	S	Understairs
	T	Toilet
	U	Upstairs
V	Vestry	
W	Under Window	
X	Outside Box	
Y	O/S Box with restricted access	
Z	Communal Cupboard	
Connection Type	E	EHV Current Transformer
	H	HV Current Transformer
	L	LV Current Transformer
	W	Whole Current
	U	Unmetered

4 Summary of Available Web Service Methods

This section summarises the web service methods that are exposed through the ECOES API service.

4.1 Web Service Methods

Web Service Method	Purpose	MHHS Impact	Formatted Table
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GetTechnicalDetailsByMpan	Retrieves the technical details for a given MPAN.	<u>Y</u>	
SearchUtilityAddress	Retrieves the Metering Point Address data matching the specified criteria.	<u>Y</u>	
GetErrorCodes	Request a list of error codes used by the web service.	<u>N</u>	
GetSubscriberMethodLimits	Request the list of method limits and current usage for a particular subscriber.	<u>N</u>	
GetRelatedMPANs	Returns relationship data for a given MPAN.	<u>Y</u>	
GetRELAddresses	Returns Retail Energy Location (REL) data delivered to ECOES from the Central Switching Service (CSS).	<u>N</u>	
SearchRELAddress	Retrieves the technical details for the MPANs matching the specified REL Address.	<u>N</u>	
SearchAddress	Retrieves the MPL and REL address for a given search criteria.	<u>Y</u>	
GetCSSMessage	Retrieves CSS messages for a given MPAN	<u>Y</u>	
GetAssociatedMPANs	Returns association data for a given MPAN	<u>Y</u>	

In the sections that follow, where the content and structure of each method is outlined, each data item is marked to show whether it will be populated when the MPAN in question is either under legacy arrangements or MHHS arrangements. Where not available, it will be an EMPTY field.

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5 Service Limitations

The ECOES API service is provided to clients with certain usage restrictions. The usage limitations currently in force can be obtained using the `GetSubscriberMethodLimits` method as defined in section-[1140](#). This method also returns the number of requests that have been made to date during this calendar month.

5.1 Request Limitations

The ECOES API web service imposes limitations upon the number of requests that can be made per calendar month, for each service subscriber. The maximum number of requests that can be made for a given web service method, per calendar month, is determined by the service plan associated with the subscription licence key.

A hard stop limit is defaulted per subscription, based upon the service plan. Each subscription can define their own hard stop limit which will stop the service from returning results once the limit is reached each month.

5.2 Request Counting

The ECOES API web service counts all requests made to each accessible web service method, per calendar month, for each service subscriber.

Where a web service method allows multiple requests to be made through a single request transaction, the web service will count each individually requested item as a request.

5.3 Response Limitations

The ECOES API web service imposes limitations upon the number of responses that are returned by each web service method for each service subscriber. In the event that the maximum number of responses is exceeded, the web service will return error code "DAT1003" that indicates this; the web service will not return any of the requested data.

6 Web Service Security

Both the RESTful and SOAP endpoints of the ECOES API web service are available over HTTPS only, thereby ensuring that all communication between the web service and the client is secured at the transport level.

The SSL certificate issued for this service is 2048bit SHA2 256 encrypted and as such any server communicating with ECOES API must be capable of understanding this higher-level type of certificate. In order to support this level of certificate you may need to patch the server making the request, or any intermediary proxy, to include any relevant hot fixes.

Also, within the certificate the web service URL, suds-ws.candc-uk.com, is referenced as a “Subject Alternate Name”, rather than the “Subject” of the certificate.

To enable users of the ECOES API service interface to authenticate themselves, with the service, the request for all web service methods must contain a service subscription licence key.

The service subscription licence key is provided by C&C Group as the EES Service Provider and is used by the web service to determine:

- the web service methods that are available to the caller
- the request limits of the web service and web service methods for the caller
- the response limits of the web service and web service methods for the caller
- the data items that are available to the web service caller

Figure 1 below shows the composition of the “Authentication” structure used to pass the subscription licence key to the web service.

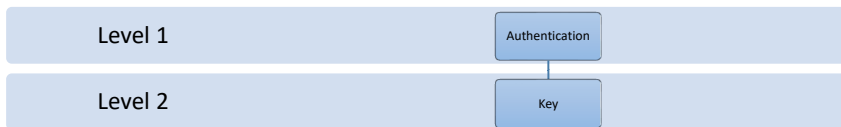


Figure 1

Level	Field	Description
1	Authentication	Mandatory. For all web service methods the “Authentication” structure must be supplied.
2	Key	Mandatory. Holds the web service subscription licence key, as supplied by C&C Group as the EES Service Provider.

7 Data Access Matrix (DAM) Restrictions

Access to individual data items returned by API methods is determined by the role assigned to the given subscription. Each role represents a category within the RECCo Data Access Matrix (DAM). The Data Access Matrix defines which data items are available to which roles, e.g. a Supplier may have access to the GSP Group data item, but a Virtual Lead Party may not.

The full RECCo Data Access Matrix can be accessed through the EMAR/REC Portal.

If a data item is not given access through a given subscriptions role based on the DAM permissions, that data item will not appear in the list of key value pairs returned by the API when they call a method containing that data item.

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For example, the GetTechnicalDetailsByMpan method is listed in this specification as returning the Profile Class Data item, however, if a subscription calling that method does not have access to Portfolio Class through their role, that data item will not be returned in their results.

7.1 Portfolio Access

Some roles are designated as 'portfolio only'. Any subscriptions assigned to such a role will also be linked with and EES website portfolio company group. When calling the API, any portfolio subscriptions will be limited to viewing results of approved MPANs that exist within the portfolio of their associated EES website company group.

If an API call matches an MPAN that is not in the given subscriptions portfolio, the VAL1010 ('MPAN restricted by portfolio access') error code will be returned within the result.

If an API call matches on multiple MPANs that are not present in the given subscriptions portfolio, only one error message will be returned within the result.

If an API call matches both MPANs that are present and MPANs that are not present within the given subscriptions portfolio, a single error message will be returned alongside the results for any approved portfolio MPANs.

All management of portfolio MPANs must be done through the EES website. Portfolios cannot be maintained through the EES API portal.

8 SearchUtilityAddress

8.1 Method Purpose

The “SearchUtilityAddress” method allows the caller of the web service to retrieve a set of Metering Point Addresses data that match the specified criteria.

8.2 Method Inputs

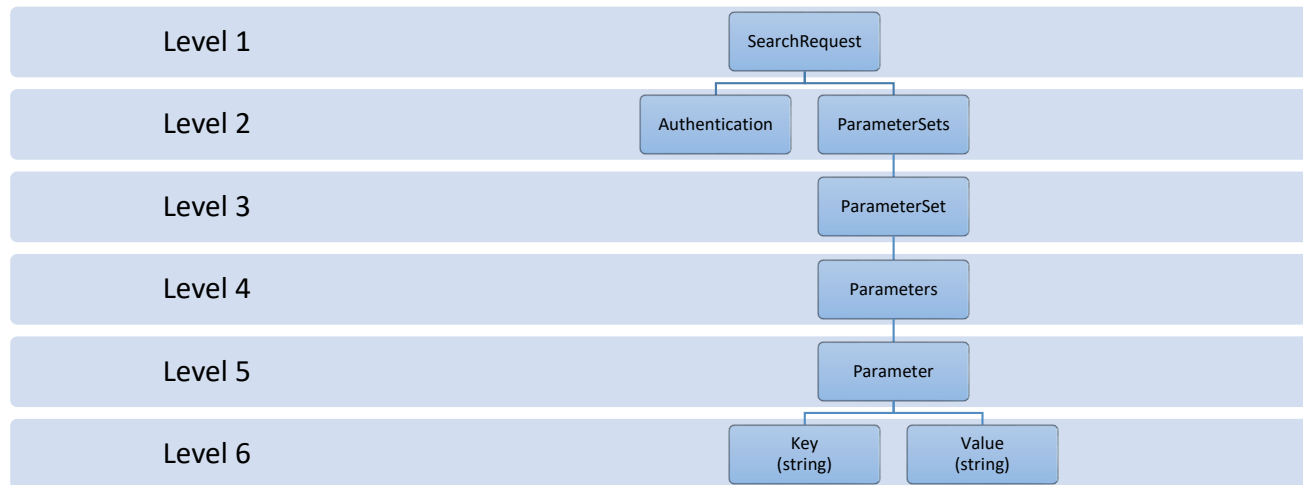


Figure 2

Level	Field	Description
1	SearchRequest	Mandatory. Encapsulates a request sent to the “SearchUtilityAddress” web service method.

2	Authentication	Mandatory. Encapsulates those details required in order that the web service caller authenticates themselves to the web service.
2	ParameterSets	Mandatory. A collection of "ParameterSet" objects; one for each address search to be performed by the web service.
3	ParameterSet	Encapsulates the set of parameters for an individual address search.
4	Parameters	A collection of "Parameter" objects; one for each address search parameter.
5	Parameter	Encapsulates the name and value of an individual address search parameter.
6	Key	Holds the name of the address search parameter.
6	Value	Holds the value of the address search parameter.

8.3 Supported Parameters

Parameter Name	Description
Postcode	Optional. This parameter must contain a minimum of three characters, which are assumed to form the out-code part of the postcode. At least one other address search parameter must be provided if a partial postcode is supplied.
BuildingNumber	Optional; at least one other address search parameter must be provided.
SubBuilding	Optional; at least one other address search parameter must be provided.
BuildingName	Optional; at least one other address search parameter must be provided.
DependentThoroughfare	Optional; at least one other address search parameter must be provided.
ThoroughfareName	Optional; at least one other address search parameter must be provided.
DoubleDependentLocality	Optional; at least one other address search parameter must be provided.
DependentLocality	Optional; at least one other address search parameter must be provided.

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PostTown	Optional; at least one other address search parameter must be provided.
MeterSerialNumber	Optional; Meter Serial Number, can be used instead of any address parameter.
ReturnDataForSingleResult	Optional. Returns the full details for a given address if only one address is returned and this parameter is set to true. The default value for this parameter is "false".

8.4 Method Outputs

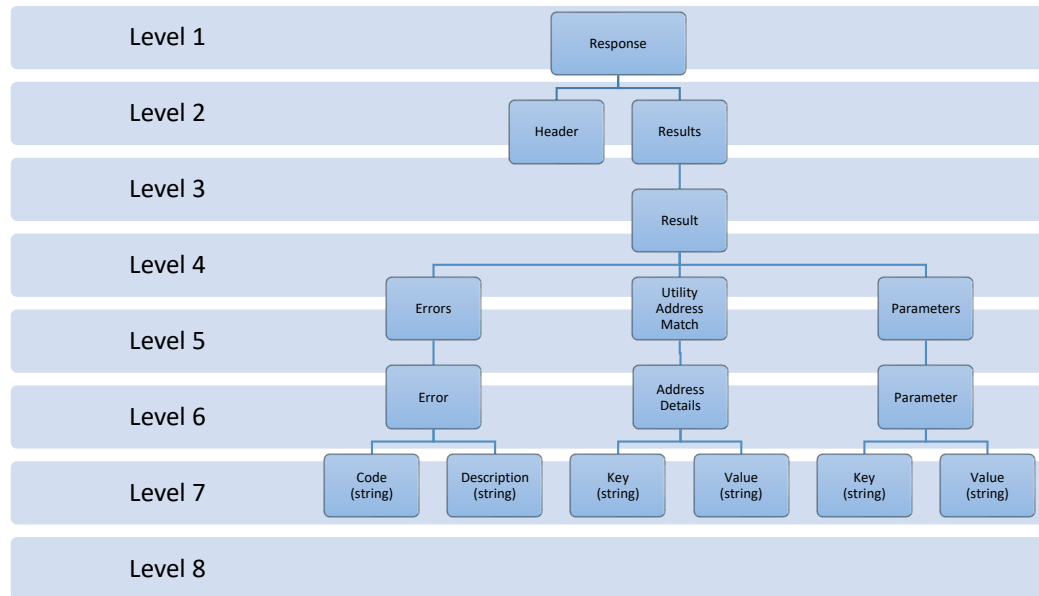


Figure 3

Level	Field	Description
1	Response	Encapsulates the response returned by the "SearchUtilityAddress" web service method.
2	Header	Holds the following web service processing details related to the request: RequestId. A unique integer value generated for the request. RequestDate. The date / time that the request was received by the web service. ResponseTime. The time taken for the web service to process the request. VersionNumber. Web service version number.
2	Results	A collection of "Result" objects; one for each MPAN.
3	Result	Encapsulates the address search results, parameters and any errors that may have occurred for a requested address search.
4	Errors	A collection of "Error" objects; one for each error identified while processing a requested address search.
5	Error	Encapsulates details of an individual address search error. See Appendix A for the list of possible error codes.
6	Code	Holds the error code.
6	Description	Holds the description of the error.
4	Utility Address Details	Encapsulates the set of data items and matched addresses for an individual address search result.
5	Utility Address Detail	A key-value pair object that encapsulates the name and value of an address search result data item.
6	Key	Holds the name of an address search result data item. See section 7-58.5 for a list of utility address data items. If ReturnDataForSingleAddress is true, and a single address is returned, then the data items returned match section 8.5
6	Value	Holds the value of an address search result data item.
4	Parameters	A collection of "Parameter" objects that are representative of the key-value pairs submitted when an address search was requested through the "SearchUtilityAddress" web service method.

Field Code Changed

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5	Parameter	A key-value pair that encapsulates the name and value of a requested address search parameter.
6	Key	Holds the name of a requested address search parameter.
6	Value	Holds the value of a requested address search parameter.

8.5 Returned Address Details

*The data that is returned to the subscriber is dependent upon their subscription.

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
mpan_core	MPAN core.	numeric	N	13	1111110000000	Y	Y
address_line_1	Metering Point Address Line 1	varchar	Y	40	FLAT 14	Y	Y
address_line_2	Metering Point Address Line 2	varchar	Y	40	KINGS LODGE	Y	Y
address_line_3	Metering Point Address Line 3	varchar	Y	40	SWAN HOUSE	Y	Y
address_line_4	Metering Point Address Line 4	varchar	Y	40	BEDFORD	Y	Y
address_line_5	Metering Point Address Line 5	varchar	Y	40	HIGH STREET	Y	Y
address_line_6	Metering Point Address Line 6	varchar	Y	40	BOURNE END	Y	Y
address_line_7	Metering Point Address Line 7	varchar	Y	40	SEDDINGTON	Y	Y
address_line_8	Metering Point Address Line 8	varchar	Y	40	SANDY	Y	Y
address_line_9	Metering Point Address Line 9	varchar	Y	40	FAKENHAM	Y	Y
postcode	Metering Point Postcode	varchar	Y	10	DH1 6AD	Y	Y
distributor_mpid	Distributor MPID	char	N	4	LOND	Y	Y
trading_status	MPAN trading status	varchar	Y	1		Y	Y
gsp_group_id	Grid Supply Point Group Id	char	Y	2		Y	Y

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mhhs indicator	Indicates whether MPAN is Legacy, MHHS or Reversed	char	N	1	R	Y	Y
mhhs indicator_efd	MHHS indicator effective from date	char	Y	8	YYYYMMDD	Y^{#1}	Y
distributor_dip_id	Distributor DIP Identifier	varchar	Y	10	1234567890	EMPTY	Y

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^{#1} In legacy arrangements, the MHHS Indicator EFD will be null where an MPAN has never migrated but will be populated with the effective date of a reverse migration.

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9 GetTechnicalDetailsByMpan

9.1 Method Purpose

The “GetTechnicalDetailsByMpan” method allows the web service caller to retrieve the utility technical details for a given MPAN. Multiple MPANs can be specified in a single request, which allows the technical details for each MPAN to be retrieved in a single call.

9.2 Method Inputs

The structure of the input expected for the “GetTechnicalDetailsByMpan” web service method is the same as that for the “SearchUtilityAddress” web service method. However, the parameters supported for this web service method are different.

9.3 Supported Parameters

Parameter Name	Description
MPAN	Mandatory.

9.4 Method Outputs

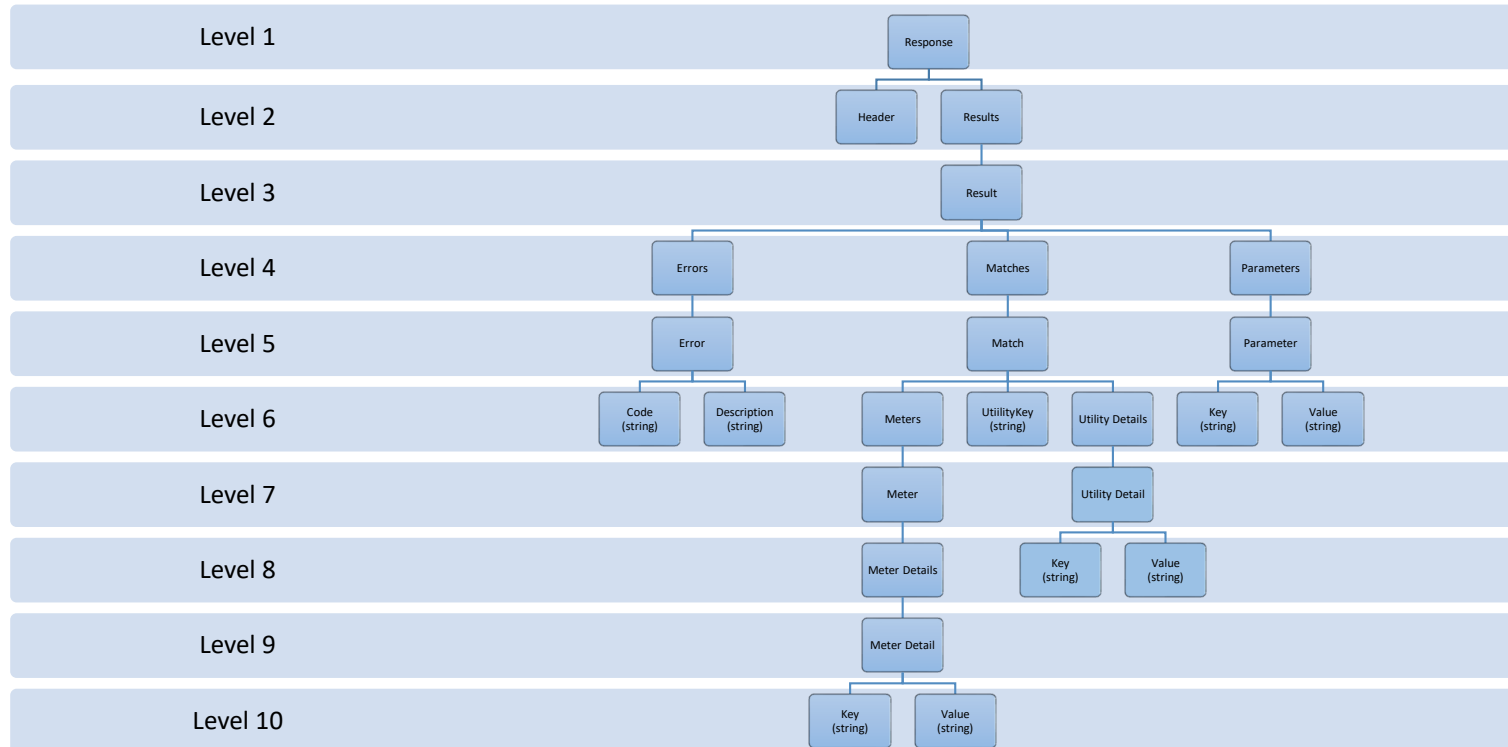


Figure 4

Level	Field	Description
1	Response	Encapsulates the response returned by the “GetTechnicalDetailsByMpan” web service method.

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2	Header	<p>Holds the following web service processing details related to the request:</p> <p>RequestId. A unique integer value generated for the request.</p> <p>RequestDate. The date / time that the request was received by the web service.</p> <p>ResponseTime. The time taken for the web service to process the request.</p> <p>VersionNumber. Web service version number.</p>
2	Results	A collection of "Result" objects; one for each requested mpan.
3	Result	Encapsulates the utility technical details for a requested mpan.
4	Errors	A collection of "Error" objects; one for each error identified while processing a requested technical details search.
5	Error	Encapsulates details of an individual technical details search error. See section Appendix A for the list of possible error codes.
6	Code	Holds the error code.
6	Description	Holds the description of the error.
4	Matches	A collection of "Match" objects; one for each discovered utility key.
5	Match	Encapsulates the data items associated with a utility key, the potentially related utility keys, and where appropriate, any associated meter details.
6	Meters	A collection of "Meter" objects; one for each set of meter details found for a given utility key. The availability of metering data is subject to utility type.
7	Meter	Encapsulates meter details found for a given MPAN.
8	Meter Details	A collection of key-value pair objects; one for each data item returned for a given meter. See section 098.6 for the list of metering data items that are returned.
9	Meter Detail	A key-value pair that holds the details of an individual meter data item.

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10	Key	Holds the key associated with a meter data item.
10	Value	Holds the value of a meter data item.
6	UtilityKey	Hold the discovered utility key value.
6	Utility Details	A collection of "Utility Detail" objects; one for each technical detail data item for the discovered utility key.
7	Utility Detail	A key-value pair that encapsulates the details of an individual technical detail data item for a discovered utility key. See below for the list of technical detail data items that can be returned by this web service method.
8	Key	Holds the name of the technical detail data item.
8	Value	Holds the value of the technical detail data item.
4	Parameters	A collection of "Parameter" objects that are representative of the key-value pairs submitted when an mpan technical detail search was requested through the "GetTechnicalDetailsByMpan" web service method.
5	Parameter	A key-value pair that encapsulates the name and value of a requested address search parameter.
6	Key	Holds the name of a requested address search parameter.
6	Value	Holds the value of a requested address search parameter.

9.5 Returned Technical Detail Data Items

*The data that is returned to the subscriber is dependent upon their subscription.

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
mpan_core	MPAN core.	numeric	N	13	111111000000 0	Y	Y
address_line_1	Metering Point Address Line 1	varchar	Y	40	FLAT 14	Y	Y
address_line_2	Metering Point Address Line 2	varchar	Y	40	KINGS LODGE	Y	Y
address_line_3	Metering Point Address Line 3	varchar	Y	40	SWAN HOUSE	Y	Y
address_line_4	Metering Point Address Line 4	varchar	Y	40	BEDFORD	Y	Y

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address_line_5	Metering Point Address Line 5	varchar	Y	40	HIGH STREET	<u>Y</u>	<u>Y</u>
address_line_6	Metering Point Address Line 6	varchar	Y	40	BOURNE END	<u>Y</u>	<u>Y</u>
address_line_7	Metering Point Address Line 7	varchar	Y	40	SEDDINGTON	<u>Y</u>	<u>Y</u>
address_line_8	Metering Point Address Line 8	varchar	Y	40	SANDY	<u>Y</u>	<u>Y</u>
address_line_9	Metering Point Address Line 9	varchar	Y	40	FAKENHAM	<u>Y</u>	<u>Y</u>
postcode	Metering Point Postcode	varchar	Y	10	DH1 6AD	<u>Y</u>	<u>Y</u>
distributor_mpid	Distributor MPID	char	N	4	LOND	<u>Y</u>	<u>Y</u>
trading_status	MPAN trading status	varchar	Y	1		<u>Y</u>	<u>Y</u>
trading_status_efd	MPAN trading status effective from date	<u>char</u>	<u>Y</u>	<u>8</u>	<u>YYYYMMDD</u>	<u>Y</u>	<u>Y</u>
gsp_group_id	Grid Supply Point Group Id	char	Y	2		<u>Y</u>	<u>Y</u>
gsp_group_efd	Grid Supply Point Group effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
line_loss_factor	Line Loss Factor Class	varchar	Y	3	<u>999001</u>	<u>Y</u>	<u>EMPTY</u>
line_loss_factor_efd	Line Loss Factor Class effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>EMPTY</u>
dcc_service_flag	Data Communications Company Service Flag	varchar	Y	1	A	<u>Y</u>	<u>Y</u>
dcc_service_flag_efd	Data Communications Company Service Flag effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
green_deal_in_effect	<u>Indicates whether active Green Deal is in effect.</u>	bool	N	1	0	<u>Y</u>	<u>Y</u>
supplier_mpid	Supplier MPID	varchar	Y	4	BGAS	<u>Y</u>	<u>Y</u>

Commented [JM5]: Post MOP Up Assurance Review -Corrected to show as being present in MHHS Arrangements, this was added through DIN 318

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supplier_efd	Effective from date of the current supplier					<u>Y</u>	<u>Y</u>
energisation_status	Energisation status	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
energisation_status_efd	Energisation status effective from date	char	Y	1	E	<u>Y</u>	<u>Y</u>
profile_class	Profile Class	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
profile_class_efd	Profile Class effective from date	varchar	Y	2	01	<u>Y</u>	<u>Y</u>
standard_settlement_configuration	Standard Settlement Configuration	varchar	Y	4	0393	<u>Y</u>	<u>Y</u>
standard_settlement_configuration_efd	Standard Settlement Configuration effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
meter_timeswitch_class	Meter Time-switch Class	varchar	Y	3	801	<u>Y</u>	<u>EMPTY</u>
meter_timeswitch_class_efd	Meter Time-switch Class effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>EMPTY</u>
measurement_class	Measurement Class	char	Y	1	A	<u>Y</u>	<u>EMPTY</u>
measurement_class_efd	Measurement class effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>EMPTY</u>
data_aggregator_mp_id	Data Aggregator MPID	varchar	Y	4	ACCU	<u>Y</u>	<u>EMPTY</u>
data_aggregator_efd	Data Aggregator appointment effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>EMPTY</u>
data_collector_mp_id	Data Collector MPID	varchar	Y	4	ACCU	<u>Y</u>	<u>EMPTY</u>
data_collector_efd	Data Collector appointment effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>EMPTY</u>
meter_operator_mp_id	Meter Operator MPID	varchar	<u>Y</u>	4			

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meter_operator_efd	Meter—Operator—appointment effective from date	char	Y	8	YYYYMMDD		
smso_mpid	Smart Metering System Operator MPID	varchar	Y	4	BGAS	<u>Y</u>	<u>Y</u>
smso_efd	Smart Metering System Operator effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
ihd_status	In Home Display Install status	varchar	Y	1	I	<u>Y</u>	<u>Y</u>
ihd_status_efd	In Home Display Install status effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
smets_version	Smart Metering Equipment Technical Specification version	varchar	Y	8	SMETS1	<u>Y</u>	<u>EMPTY</u>
metered_indicator	Metered Indicator	char	N	1	T	<u>Y</u>	<u>Y</u>
metered_indicator_efd	Metered Indicator effective from date	char	N	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
metered_indicator_etd	Metered Indicator effective to date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
consumer_type	Consumer Type	varchar	Y	12	Domestic	<u>Y</u>	<u>EMPTY</u>
domestic_premises consumer_indicator	Domestic Premises—Consumer Indicator as supplied via CSS messages	char	N	1	T	<u>Y</u>	<u>Y</u>
relationship_status_indicator	Relationship Status Indicator	varchar	N	8	None	<u>Y</u>	<u>Y</u>
rmp_state	RMP State	char	N	1	0	<u>Y</u>	<u>Y</u>
rmp_state_efd	RMP State effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
ess_supplier_mpid	Current supplier as supplied via CSS messages	char	Y	4	LOND		

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css_supply_start_date	Current supply start date as supplier via CSS messages	char	Y	8	YYYYMMDD		
energy_direction	Energy Direction (I – Import, E – Export)	char	Y	1	E	<u>Y</u>	<u>Y</u>
energy_direction_efd	Energy Direction effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	EMPTY
energy_direction_etd	Energy Direction effective to date	char	Y	8	YYYYMMDD	<u>Y</u>	EMPTY
connection_type	Connection Type	char	Y	1	3	<u>Y</u>	<u>Y</u>
connection_type_efd	Connection Type effective from date	char	Y	8	YYYYMMDD	<u>Y</u>	<u>Y</u>
connection_type_etd	Connection Type effective to date	char	Y	8	YYYYMMDD	<u>Y</u>	EMPTY
mhhs_indicator	Indicates whether MPAN is Legacy, MHHS or Reversed	char	N	1	R	<u>Y</u>	<u>Y</u>
mhhs_indicator_efd	MHHS indicator effective from date	char	<u>Y</u>	8	YYYYMMDD	<u>Y</u> ^{#1}	<u>Y</u>
distributor_dip_id	Distributor DIP Identifier	varchar	<u>Y</u>	10	1234567890	EMPTY	<u>Y</u>
disconnection_efd	Disconnection effective from date	char	<u>Y</u>	8	YYYYMMDD	EMPTY	<u>Y</u>
supplier_dip_id	Supplier DIP identifier	varchar	<u>Y</u>	10	1234567890	EMPTY	<u>Y</u>
metering_service_mpid	Metering Service/Meter Operator MPID *2	varchar	<u>Y</u>	4	ABCD	<u>Y</u>	<u>Y</u> ^{#2}
metering_service_dip_id	Metering Service DIP identifier *2	varchar	<u>Y</u>	10	1234567890	EMPTY	<u>Y</u> ^{#2}
metering_service_efd	Metering Service/Meter Operator effective from date *2	char	<u>Y</u>	8	YYYYMMDD	<u>Y</u>	<u>Y</u> ^{#2}
annual_consumption	ECS Calculated Annual Consumption (kWh)	varchar	<u>Y</u>	13	123456789.123	EMPTY ^{#3}	<u>Y</u>

Commented [JM6]: **Post MOP Up Assurance Review** - The CSS Supplier MPID and CSS Supplier Start Date have been removed. Post M10, EES will update the main Supplier MPID and Supplier Start Date direct from CSS interfaces, so these items are no longer required.

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Commented [JM7]: **Post MOP Up Assurance Review** - The Metering Service ETD item has been removed as being present in MHHS arrangements (The item is not currently in legacy arrangements). The API doesn't provide details on Metering Service history so this item would never be populated.

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annual_consumption_efd	Date on which Annual Consumption Calculated / Effective From	date	Y	8	YYYYMMDD	EMPTY #3	Y
annual_consumption_quality_indicator	ECS Calculated Annual Consumption Quality Indicator	char		1	A	EMPTY #3	Y
assigned_mdr_dip_id	Meter Data Reader DIP Identifier (if relevant)	varchar	Y	10	1234567890	EMPTY	Y
assigned_mdr_MPID	Meter Data Reader MPID	char	Y	4	ABCD	EMPTY	Y
assigned_mdr_efd	Meter Data Reader effective from date	char	Y	8	YYYYMMDD	EMPTY	Y
customer_direct_contract_ds_exists	Identifies where such a relationship exists for a Data Service.	bool	N	1	0	EMPTY	Y
customer_direct_contract_ds_dip_id	Customer Direct Contract Data Service DIP Identifier	varchar	Y	10	1234567890	EMPTY	Y
customer_direct_contract_ds_mpid	Customer Direct Contract Data Service MPID	char	Y	4	ABCD	EMPTY	Y
customer_direct_contract_ms_exists	Identifies where such a relationship exists for a Metering Service	bool	N	1	0	EMPTY	Y
customer_direct_contract_ms_dip_id	Customer Direct Contract Metering Service DIP Identifier	varchar	Y	10	1234567890	EMPTY	Y
customer_direct_contract_ms_mpid	Customer Direct Contract Metering Service MPID	char	Y	4	ABCD	EMPTY	Y
data_service_dip_id	Data Service DIP Identifier	varchar	Y	10	1234567890	EMPTY	Y
data_service_efd	Data Service effective from date	char	Y	8	YYYYMMDD	EMPTY	Y
data_service_mpid	Data Service MPID	char	Y	4	ABCD	EMPTY	Y
duos_tariff_id	DUoS Tariff ID	char	Y	3	12B	EMPTY	Y

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duos_tariff_id_efd	Duos Tariff ID effective from date	char	Y	8	YYYYMMDD	EMPTY	Y
market_segment_indicat or	MPAN Market Segment	char	Y	1	S	EMPTY	Y
Market segment indicat or_efd	MPAN Market Segment effective from date	char	Y	8	YYYYMMDD	EMPTY	Y

^{#1} In legacy arrangements, the MHHS Indicator EFD will be null where an MPAN has never migrated but will be populated with the effective date of a reverse migration.

^{#2} Metering Service details will reflect either the MOA or the UMSO depending on whether the Metering Point is Metered or Unmetered.

^{#3} Annual Consumption data will continue to be available for an MPAN that has Reverse Migrated back to Legacy Arrangements. However, the data provided will be as of the date the data was last updated when it was under MHHS Arrangements.

Commented [JM8]: Post M6 Consultation CD7-238, asked why the Market Segment EFD had been removed. This was removed in error and has been reinstated.

Commented [JM9]: Post M6 Consultation CD7-237 requested additional info on a note on the disconnection date. On review this footnote isn't required and has been deleted.

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9.6 Returned Metering Data Items

*The data that is returned to the subscriber is dependent upon their subscription.

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
mpancore	MPAN Core	numeric	N	13	1111110000000	Y	Y
installing_supplier_mpid	Installing Supplier MPID	varchar	N	4	BGAS	Y	Y
meter_serial_number	Meter Serial Number	varchar	N	10	11A1111111	Y	Y
meter_type	Meter Type	varchar	N	5	S1	Y	Y
meter_install_date	Meter Install Date	char	N	8	YYYYMMDD	Y	Y
map_mpid	Meter Asset Provider MPID	varchar	Y	4	MFMP	Y	Y
esme_id	Electricity Smart Meter Equipment ID	char	Y	23	AB-CD-EF-GH-IJ-KL-MN-OP	Y	Y

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meter_location	Meter Location Code (see Domain Data section for descriptions)	char	Y	1	A	<u>Y</u>	<u>Y</u>
register_digits	No. of digits/dials to the left of the decimal point	integer	Y	1	6	<u>Y</u>	<u>Y</u>
installing_supplier_dip_id	Installing Supplier DIP identifier	varchar	<u>Y</u>	<u>10</u>	1234567890	EMPTY	<u>Y</u>
map_dip_id	Meter Asset Provider DIP identifier	varchar	<u>Y</u>	<u>10</u>	1234567890	EMPTY	<u>Y</u>
meter_manufacturer	Meter Manufacturer	varchar	<u>Y</u>	<u>60</u>	abcdefghijklmnop	EMPTY	<u>Y</u>

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10 GetErrorCodes

10.1 Method Purpose

The "GetErrorCodes" web service method returns a list of error codes used by the web service (see Appendix A - Error Codes).

10.2 Method Inputs

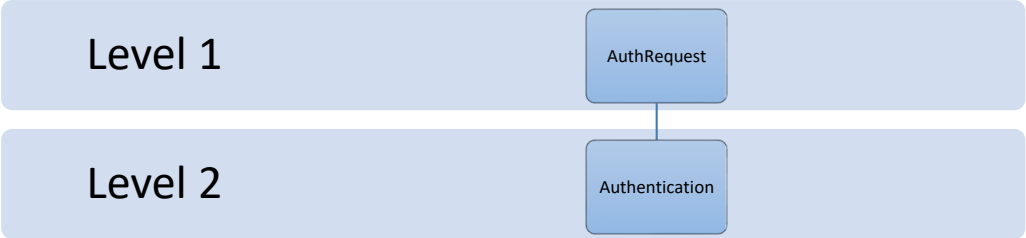


Figure 5

Level	Field	Description
1	AuthRequest	Mandatory. Encapsulates a request to the "GetErrorCodes" web service method.
2	Authentication	Mandatory. Encapsulates those details required in order that the web service caller authenticates themselves to the web service. See section ' Web Service Security ' for more information.

10.3 Method Outputs

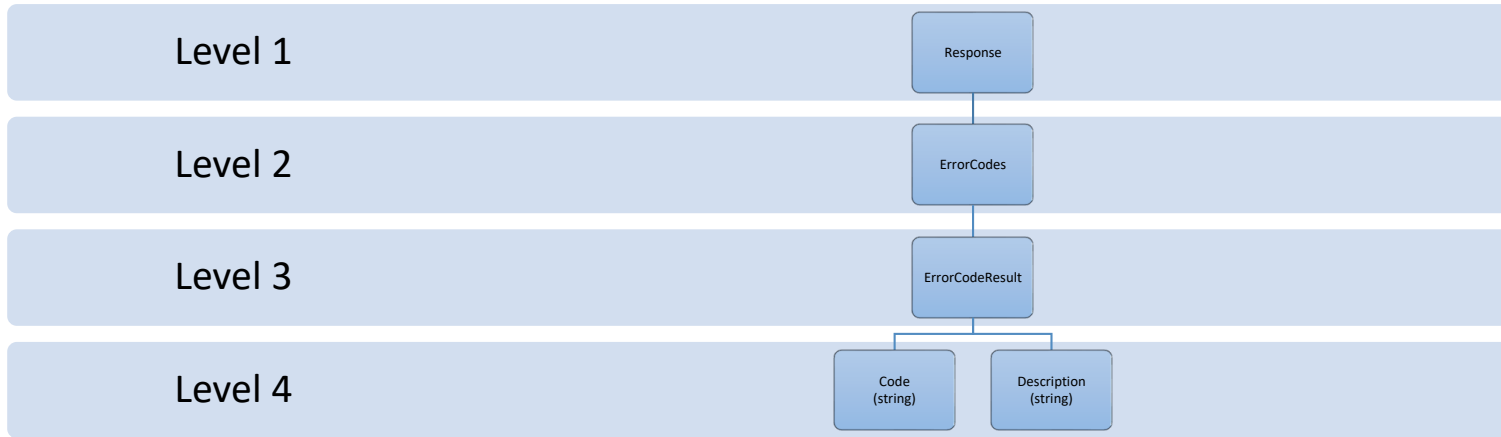


Figure 6

Level	Field	Description
1	Response	Encapsulates response returned by the "GetErrorCodes" web service method.
2	ErrorCodes	A collection of "ErrorCodeResult" objects; one for each error code defined for the web service.
3	ErrorCodeResult	Encapsulates an error code defined for the web service.
4	Code	The code for the defined error.
4	Description	The description of the defined error.

11 GetSubscriberMethodLimits

11.1 Method Purpose

The “GetSubscriberMethodLimits” method returns the list of method limits, and current usage for a particular subscriber.

11.2 Method Inputs

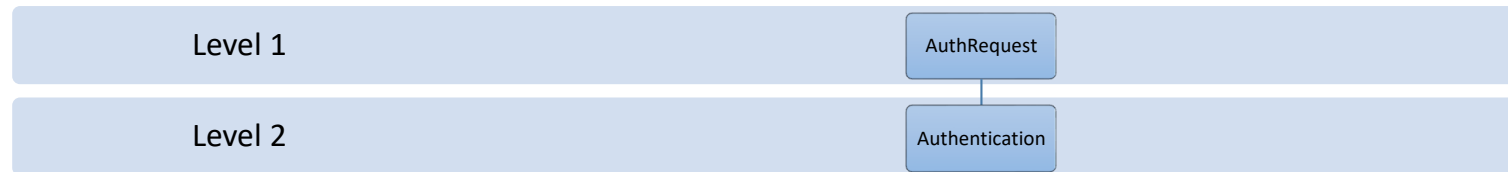


Figure 7

Level	Field	Description
1	AuthRequest	Mandatory. Encapsulates a request to the “GetSubscriberMethodLimits” web service method.
2	Authentication	Mandatory. Encapsulates those details required in order that the web service caller authenticates themselves to the web service. See section ‘ Web Service Security ’ Web Service Security Web Service Security for more information.

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11.3 Method Outputs

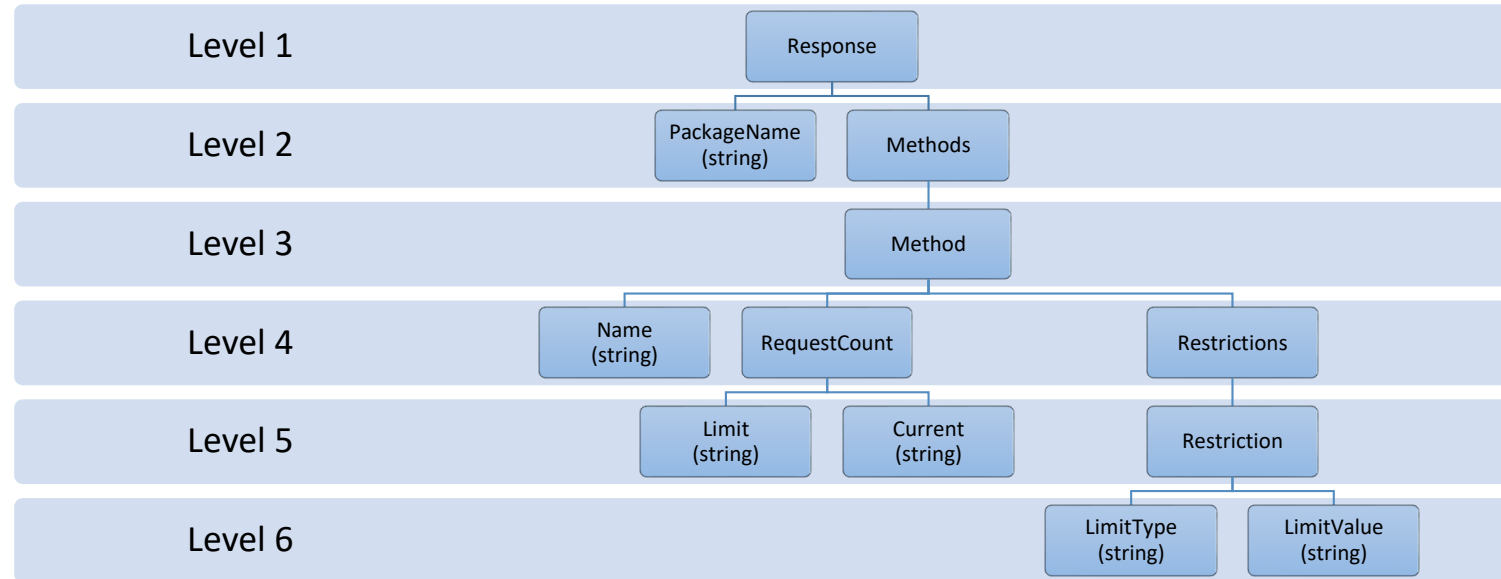


Figure 8

Level	Field	Description
1	Response	Encapsulates the response from the “GetSubscriberMethodLimits” web service method.
2	PackageName	Holds the name of the service plan for the subscription associated with the web service caller.
2	Methods	A collection of “Method” objects; one for each web service method to which the subscriber has access.
3	Method	Encapsulates the request count and limits for a web service method accessible to the subscriber.
4	Name	Name of the web service method.

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4	RequestCount	Encapsulates the limit and number of requests made for a given web service method.								
5	Limit	Holds the request limit for a given web service method, for the calling subscriber.								
5	Current	Holds the current number of requests made for a given web service method, for the calling subscriber.								
4	Restrictions	A collection of "Restriction" objects; one for each restriction defined for a given web service method, for the calling subscriber.								
5	Restriction	Encapsulates a restriction defined for a given web service method, for the calling subscriber.								
6	LimitType	<p>Holds the type name of the restriction. The type name can be one of the following values.</p> <table border="1"> <thead> <tr> <th>Limit Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>MAX_PARAM_INPUT</td> <td>Determines the maximum number of input parameters for a method</td> </tr> <tr> <td>MAX_RESULT_OUTPUT</td> <td>Determines the maximum number of results return from a request</td> </tr> <tr> <td>MAX_REQUEST_PER_MONTH</td> <td>Specifies the maximum number of monthly requests that can be made to this entity</td> </tr> </tbody> </table>	Limit Type	Description	MAX_PARAM_INPUT	Determines the maximum number of input parameters for a method	MAX_RESULT_OUTPUT	Determines the maximum number of results return from a request	MAX_REQUEST_PER_MONTH	Specifies the maximum number of monthly requests that can be made to this entity
Limit Type	Description									
MAX_PARAM_INPUT	Determines the maximum number of input parameters for a method									
MAX_RESULT_OUTPUT	Determines the maximum number of results return from a request									
MAX_REQUEST_PER_MONTH	Specifies the maximum number of monthly requests that can be made to this entity									
6	LimitValue	Holds the defined restriction value.								

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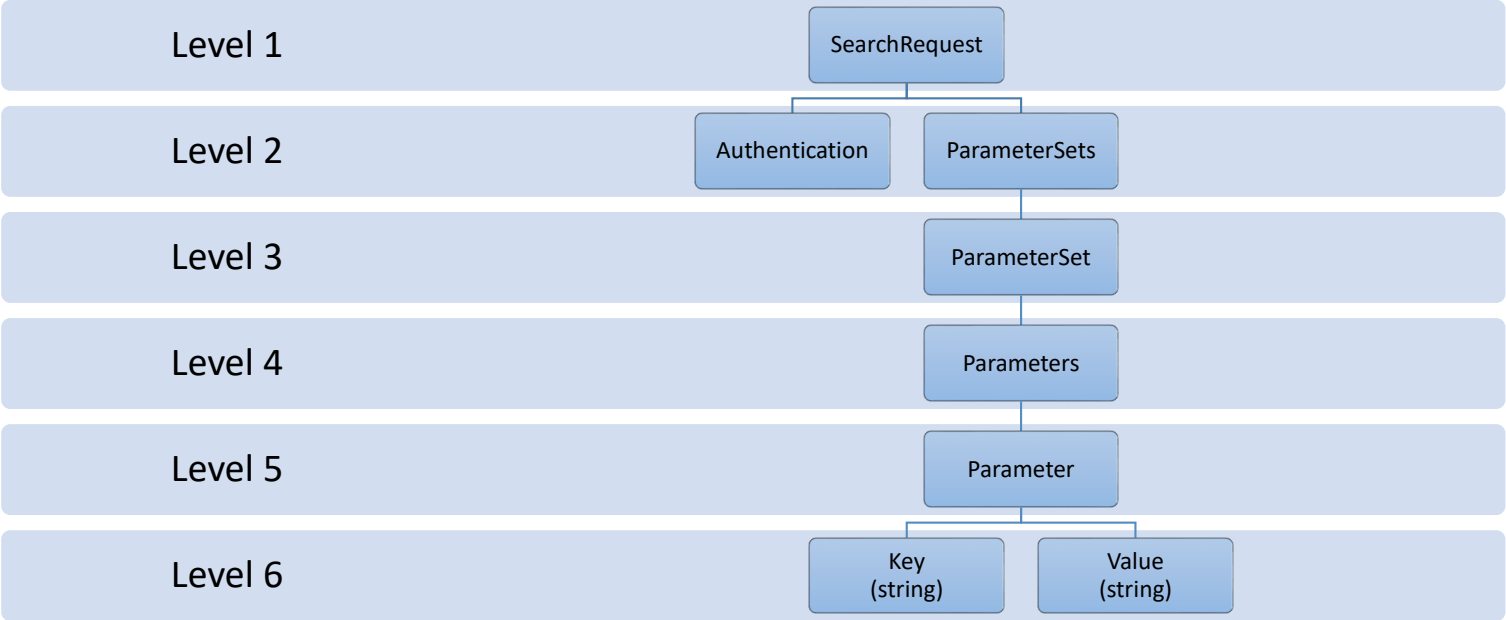
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12 GetRelatedMPANs

12.1 Method Purpose

The "GetRelatedMPANs" method returns relationship data for a given MPAN. The method will return all MPANs that are either of a secondary or primary relationship to the given MPAN. The method will act upon only one given parameter set.

12.2 Method Inputs



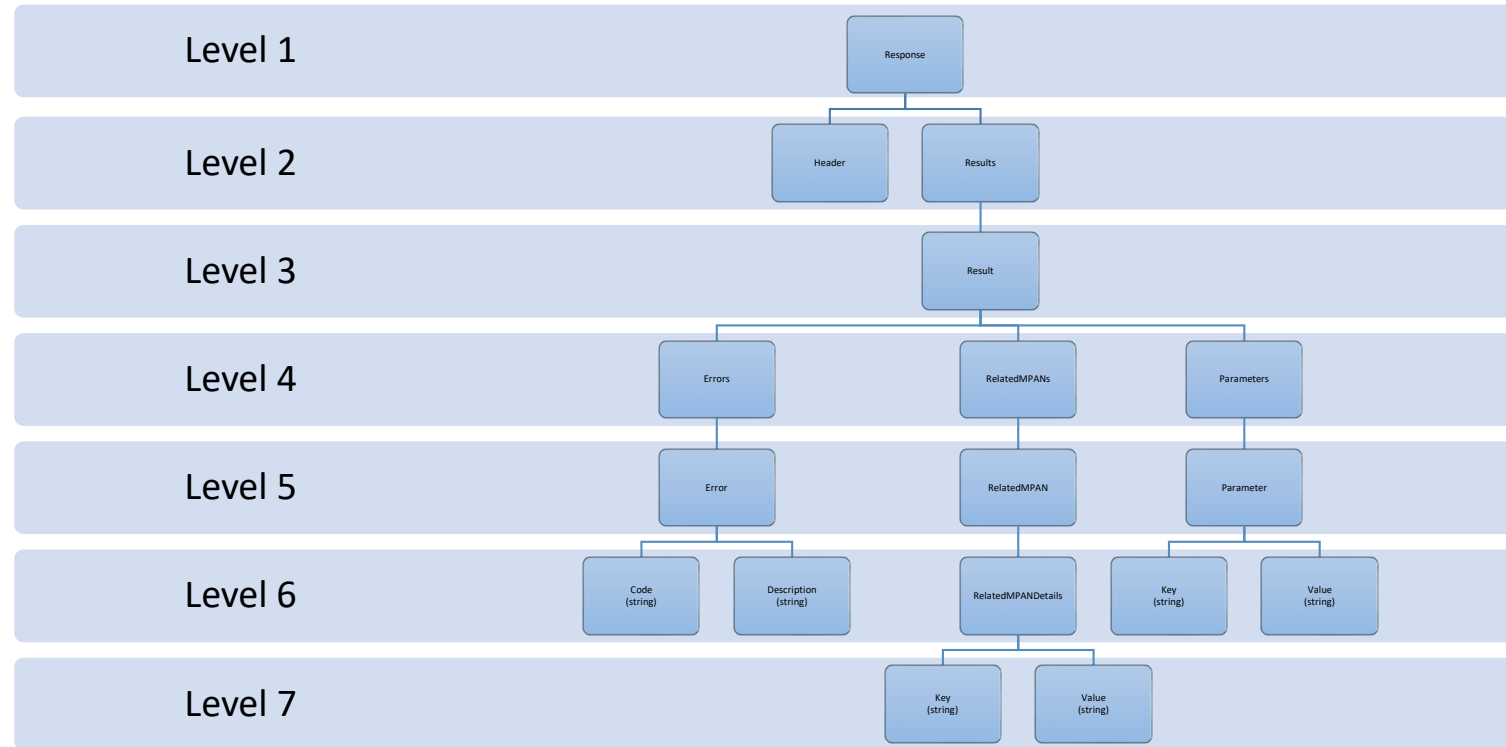
12.3 Supported Parameters

Parameter Name	Description
MPAN	Mandatory.

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12.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the “GetTechnicalDetailsByMpan” web service method.
2	Header	Holds the following web service processing details related to the request:

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		<p>RequestId. A unique integer value generated for the request.</p> <p>RequestDate. The date / time that the request was received by the web service.</p> <p>ResponseTime. The time taken for the web service to process the request.</p> <p>VersionNumber. Web service version number.</p>
2	Results	A collection of "Result" objects; one for each requested mpan.
3	Result	Encapsulates the utility technical details for a requested mpan.
4	Errors	A collection of "Error" objects; one for each error identified while processing a requested technical details search.
5	Error	Encapsulates details of an individual technical details search error. See section Appendix A for the list of possible error codes.
6	Code	Holds the error code.
6	Description	Holds the description of the error.
4	RelatedMPANs	Encapsulates each of the related MPAN records found.
5	RelatedMPAN	Encapsulates the details collection of each MPAN record, one for each MPAN found
6	RelatedMPANDetails	A collection of details relating to the found MPAN
7	Key	Holds the name of a data item.
7	Value	Holds the value of a data item.
4	Parameters	Encapsulates the Parameter objects.
5	Parameter	Parameter object.
6	Key	Holds the name of a requested search parameter.
6	Value	Holds the value of a requested search parameter.

Version/Status: [3.1.5 \(Final\)](#)

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12.5 Response Data Items

Data Item	Data Type	Item	Nullable	Max Length	Possible Values	Example Values	Legacy Arrangements	MHHS Arrangements
primary_mpan	Decimal		N	13		1899914439999	<u>Y</u>	<u>Y</u>
primary_type	String		N	9	PRIMARY		<u>Y</u>	<u>EMPTY</u>
primary_reference	String		N	15		P_MPID00009999	<u>Y</u>	<u>Y</u>
primary_relationship_reference	String		N	15		P_MPID00009991	<u>Y</u>	<u>Y</u>
primary_supplier	String		N	4		SUPL	<u>Y</u>	<u>EMPTY</u>
primary_efd	Date		N	8		20190712	<u>Y</u>	<u>Y</u>
primary_etd	Date		Y	8		20190712	<u>Y</u>	<u>Y</u>
secondary_mpan	Decimal		N	13		1899914438888	<u>Y</u>	<u>Y</u>
secondary_type	String		N	9	SECONDARY		<u>Y</u>	<u>EMPTY</u>
secondary_reference	String		N	15		S_MPID00009999	<u>Y</u>	<u>Y</u>
secondary_relationship_reference	String		N	15		S_MPID00009991	<u>Y</u>	<u>Y</u>
secondary_supplier	String		N	4		SUPP	<u>Y</u>	<u>EMPTY</u>
secondary_efd	Date		N	8		20190712	<u>Y</u>	<u>Y</u>
secondary_etd	Date		Y	8		20190712	<u>Y</u>	<u>Y</u>
<u>primary_mpan_mhhs_indicator</u>	<u>char</u>		<u>N</u>	<u>1</u>		<u>R</u>	<u>Y</u>	<u>Y</u>
<u>primary_mpan_mhhs_indicator_efd</u>	<u>char</u>		<u>Y</u>	<u>8</u>		<u>YYYYMMDD</u>	<u>Y^{#1}</u>	<u>Y</u>
<u>secondary_mpan_mhhs_indicator</u>	<u>char</u>		<u>N</u>	<u>1</u>		<u>R</u>	<u>Y</u>	<u>Y</u>
<u>Secondary_mpan_mhhs_indicator_efd</u>	<u>char</u>		<u>Y</u>	<u>8</u>		<u>YYYYMMDD</u>	<u>Y^{#1}</u>	<u>Y</u>

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Updated to Y following EES Provider confirmation that the ETD will be available in MHHS arrangements.

Commented [JM11]: M6 Consultation Update: CCCR-0184
Updated to Y following EES Provider confirmation that the ETD will be available in MHHS arrangements.

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^{#1} In legacy arrangements, the MHHS Indicator EFD will be null where an MPAN has never migrated but will be populated with the effective date of a reverse migration.

Version/Status: ~~3.1.5 (Final)~~

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Version/Status: ~~3.1.5~~ (Final)

Filename: ~~MHS-DEL1718 - REC EES API Interface Specification -
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Specification v3.1.4_0.0

13 GetRELAddresses

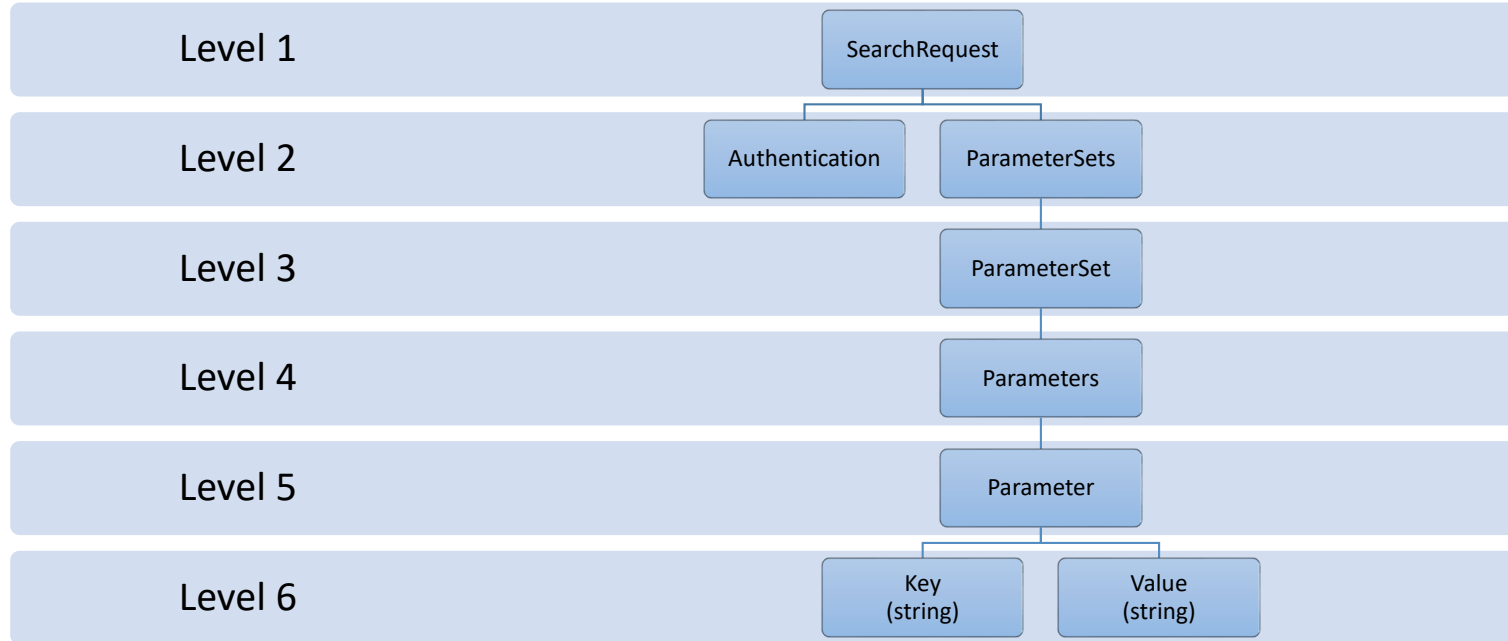
13.1 Method Purpose

The “GetRELAddresses” method allows the caller to retrieve the current Retail Energy Location (REL) address(es) for a given MPAN (e.g. English spelling, Welsh spelling).

The REL data received on the latest RetailEnergyLocationSynchronisation, as determined by Event Date, is returned. Historic REL data is not be returned.

Only data for the given MPAN is returned, data is not returned for other MPANs with a UPRN matching that of the given MPAN.

13.2 Method Inputs

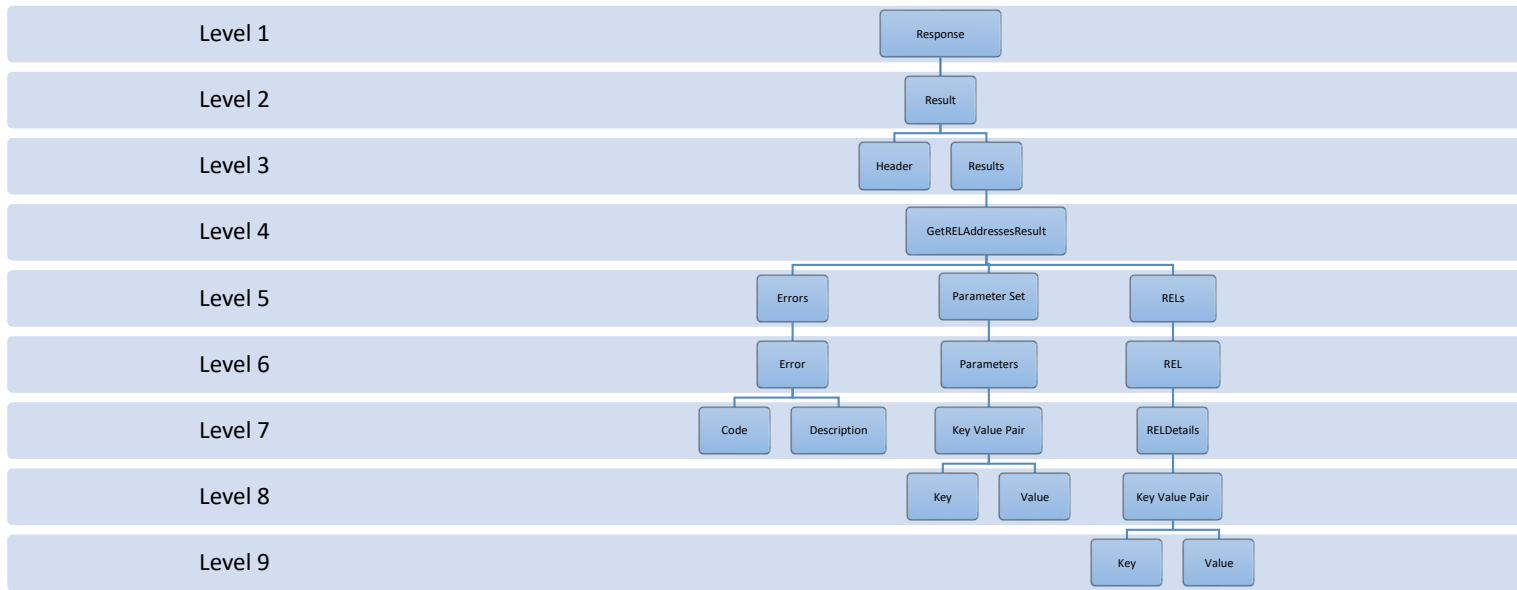


13.3 Supported Parameters

Parameter Name	Description
RELPermission	Holds a Boolean value that indicates whether the process calling the web service has permission to view the REL Addresses data as per the requirements of Ordnance Survey's Retail Energy Location Licence.

	<p>If this field does not hold a value of "true", then a DAT249o error will be returned (The RELPermission parameter must be set to "true").</p> <p>The default value for this parameter is "false".</p>
MPAN	Mandatory.

13.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the "GetRELAddresses" web service method.
2	Result	Encapsulates the result returned by the "GetRELAddresses" web service method.
3	Header	Holds the following web service processing details related to the request: RequestId. A unique integer value generated for the request. RequestDate. The date / time that the request was received by the web service. ResponseTime. The time taken for the web service to process the request. VersionNumber. Web service version number.
3	Results	A collection of "Result" objects.
4	GetRELAddressesResult	Encapsulates the REL for a requested MPAN together with an errors collection and the Parameter Set from the request.
5	Errors	A collection of "Error" objects.
6	Error	Encapsulates details of an individual error. See section Appendix A for the list of possible error codes.
7	Code	Holds the error code.
7	Description	Holds the error description.
5	Parameter Set	The Parameter Set from the request.
6	Parameters	Encapsulates the Parameter objects.
7	Key Value Pair	Holds a parameter data item key and value. As a pair.
8	Key	Holds the name of a requested search parameter.

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8	Value	Holds the value of a requested search parameter.
5	RELS	Encapsulates the REL objects.
6	REL	Encapsulates the RELDetails object.
7	RELDetails	Holds a collection of key value pair data items.
8	Key Value Pair	Holds a REL data item key and value.
9	Key	Holds the name of a REL data item.
9	Value	Holds the value of a REL data item.

13.5 Response Data Items

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.

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
mpan_core		Numeric	False	13	1591017864341	Y	Y
rel_updated_date		Date	False	N/A	2021-02-18 10:07:20.000	Y	Y
rel_address_source		String	False	255	MPL	Y	Y
rel_uprn		Numeric	False	N/A	4	Y	Y
secondary_name	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"	String	True	255	Flat 2	Y	Y

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	in this case will the Primary Name of the parent property						
primary_name	This is the Primary Addressable Object description. This is normally the name and or number of the property	String	True	255	London House	<u>Y</u>	<u>Y</u>
street_2	LPI – Blank DPA - dependant thoroughfare	String	True	255	Witton Grove East	<u>Y</u>	<u>Y</u>
street_1	LPI - derived from Street DPA - the Thoroughfare	String	True	255	Witton Grove	<u>Y</u>	<u>Y</u>
locality_2	LPI - Blank DPA – double dependant locality	String	True	255	Durham East	<u>Y</u>	<u>Y</u>
locality_1	LPI – derived from Street DPA – dependant locality	String	True	255	Durham	<u>Y</u>	<u>Y</u>
town		String	True	255	Pity Me	<u>Y</u>	<u>Y</u>
postcode		String	True	8	DH1 6AD	<u>Y</u>	<u>Y</u>
logical_status		Numeric	True	N/A	1	<u>Y</u>	<u>Y</u>
language		String	True	3	ENG	<u>Y</u>	<u>Y</u>
organisation		String	True	255	ECONOGROUP	<u>Y</u>	<u>Y</u>
address_type ¹		String	True	3	DPA	<u>Y</u>	<u>Y</u>
confidence_score		Numeric	True	N/A	100	<u>Y</u>	<u>Y</u>
classification		String	True	6	RD06	<u>Y</u>	<u>Y</u>
latitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>
longitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>

¹ Address Type = DPA (Delivery Point Address) – Post Office delivery address
Address Type = LPI (Local Property Identifier) – Addresses sourced from Local Authority data

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14 SearchRELAddress

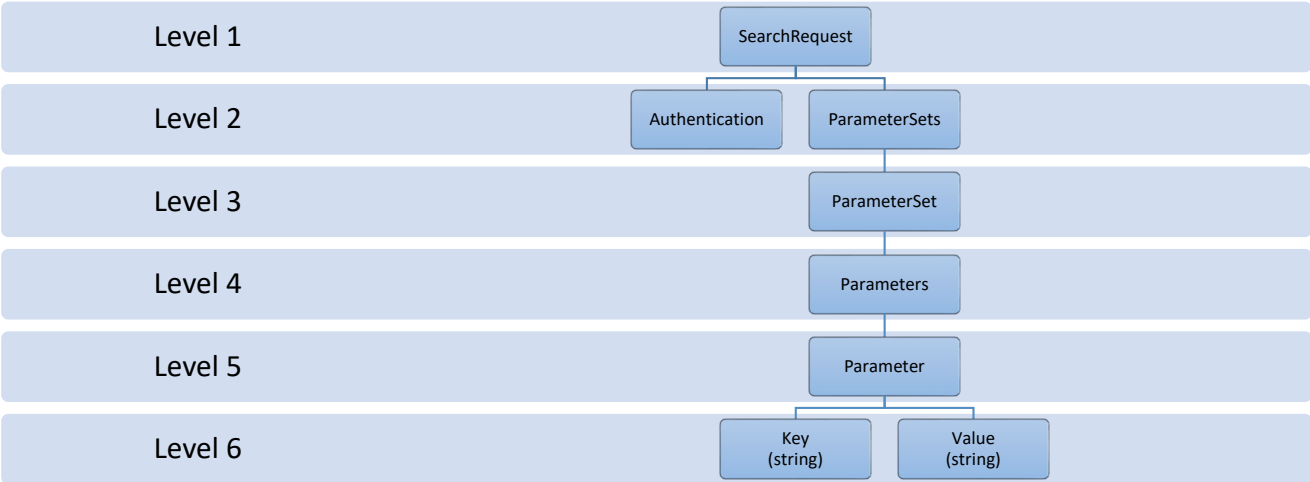
14.1 Method Purpose

The "SearchRELAddress" method allows the caller to retrieve the current REL data for the given search criteria.

The search is performed against all current REL data. Current REL data is that which was received on the latest RetailEnergyLocationSynchronisation message, as determined by Event Date. Historical REL data will not be searched against.

Only REL data is returned by this method, no MPL address data is returned.

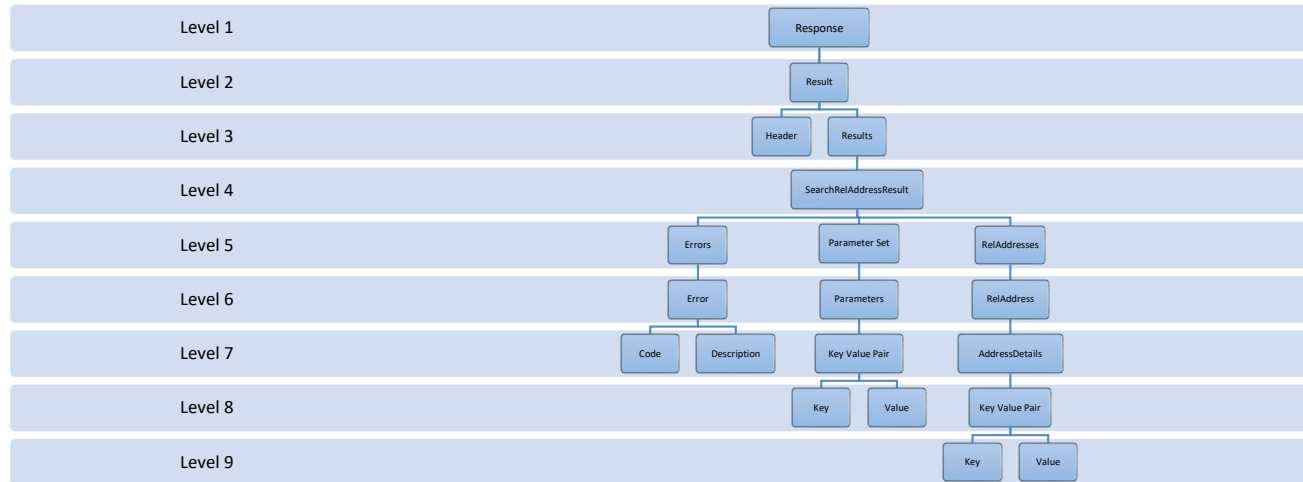
14.2 Method Inputs



14.3 Supported Parameters

Parameter Name	Description
RELPermission	Optional. Holds a Boolean value that indicates whether the process calling the web service has permission to use the REL Addresses data as per the requirements of Ordnance Survey's Retail Energy Location Licence. If this field does not hold a value of "true", then a message will be returned: The RELPermission parameter must be set to "true" . The default value for this parameter is "false".
SearchTerm	Optional. A string to match the REL address data with.
Postcode	Mandatory. Full or partial postcode.

14.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the “GetRELAddresses” web service method.
2	Result	Encapsulates the result returned by the “GetRELAddresses” web service method.
3	Header	Holds the following web service processing details related to the request: RequestId. A unique integer value generated for the request. RequestDate. The date / time that the request was received by the web service.

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		ResponseTime. The time taken for the web service to process the request. VersionNumber. Web service version number.
3	Results	A collection of "Result" objects.
4	SearchRelAddressResult	Encapsulates the REL for a requested MPAN together with an errors collection and the Parameter Set from the request.
5	Errors	A collection of "Error" objects.
6	Error	Encapsulates details of an individual error. See section Appendix A for the list of possible error codes.
7	Code	Holds the error code.
7	Description	Holds the error description.
5	Parameter Set	The Parameter Set from the request.
6	Parameters	Encapsulates the Parameter objects.
7	Key Value Pair	Holds a parameter data item key and value. As a pair.
8	Key	Holds the name of a requested search parameter.
8	Value	Holds the value of a requested search parameter.
5	RelAddresses	Encapsulates the RelAddress objects.
6	RelAddress	Encapsulates the AddressDetails object.
7	AddressDetails	Holds a collection of key value pair data items.
8	Key Value Pair	Holds a REL data item key and value.
9	Key	Holds the name of a REL data item.
9	Value	Holds the value of a REL data item.

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14.5 Response Data Items

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.

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
uprn		Numeric	False	N/A	4	Y	Y
mpan_core		Numeric	False	13	1591017864341	Y	Y
address_source		String	False	255	MPL	Y	Y
secondary_name	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	String	True	255	Flat 2	Y	Y
primary_name	This is the Primary Addressable Object description. This is normally the name and or number of the property	String	True	255	London House	Y	Y
street_2	LPI – Blank DPA - dependant thoroughfare	String	True	255	Witton Grove East	Y	Y
street_1	LPI - derived from Street DPA - the Thoroughfare	String	True	255	Witton Grove	Y	Y
locality_2	LPI - Blank DPA – double dependant locality	String	True	255	Durham East	Y	Y

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locality_1	LPI – derived from Street DPA – dependant locality	String	True	255	Durham	<u>Y</u>	<u>Y</u>
town		String	True	255	Pity Me	<u>Y</u>	<u>Y</u>
postcode		String	True	8	DH1 6AD	<u>Y</u>	<u>Y</u>
logical_status		Numeric	True	N/A	1	<u>Y</u>	<u>Y</u>
language		String	True	3	ENG	<u>Y</u>	<u>Y</u>
organisation		String	True	255	ECONOGROUP	<u>Y</u>	<u>Y</u>
address_type ²		String	True	3	DPA	<u>Y</u>	<u>Y</u>
confidence_score		Numeric	True	N/A	100	<u>Y</u>	<u>Y</u>
classification		String	True	6	RD06	<u>Y</u>	<u>Y</u>
latitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>
longitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>
updated_date		Date	False	N/A	2021-02-18 10:07:20.000	<u>Y</u>	<u>Y</u>

² Address Type = DPA (Delivery Point Address) – Post Office delivery address
Address Type = LPI (Local Property Identifier) – Addresses sourced from Local Authority data

15 GetCSSMessages

15.1 Method Purpose

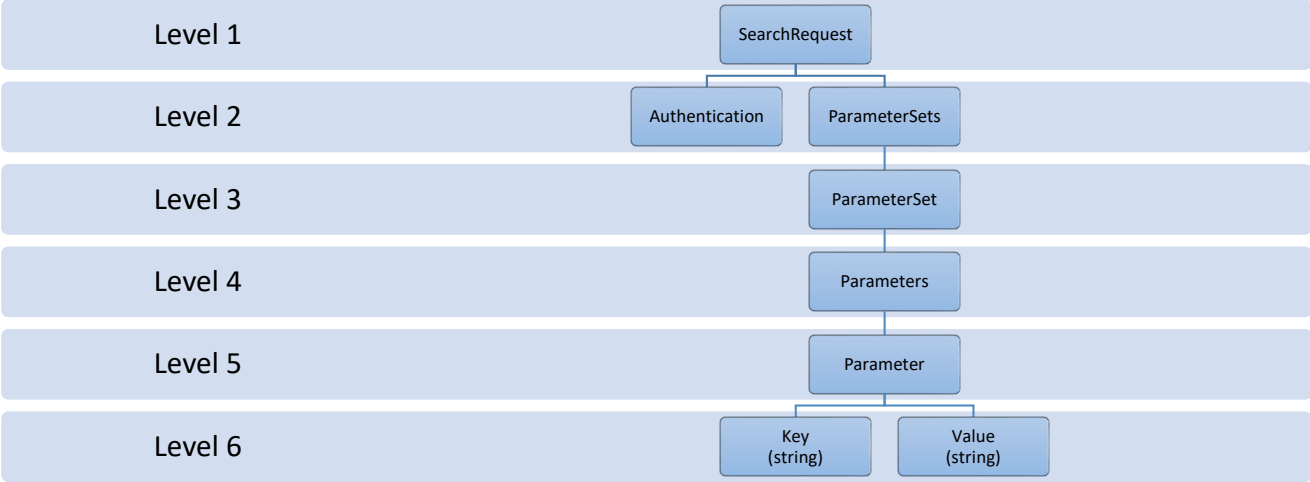
The "GetCSSMessages" method allows the caller to retrieve the CSS messages for a given MPAN received within the last 90 days.

The method allows the caller to narrow down their search by Event Type, Event Date. If a date range greater than 90 days is given, the method will still only return data from the last 90 days.

The data items listed below will be returned for all Event Types, however, they will only be populated if they form part of the defined structure for that Event Type message. If the data item does not form part of the Event Type message structure it will be returned with an empty string value.

No REL data relating to the RetailEnergyLocationSynchronisation message will be returned by this method. Only MPAN Core, Event Type, Event Date and Event Status will be populated for this message type.

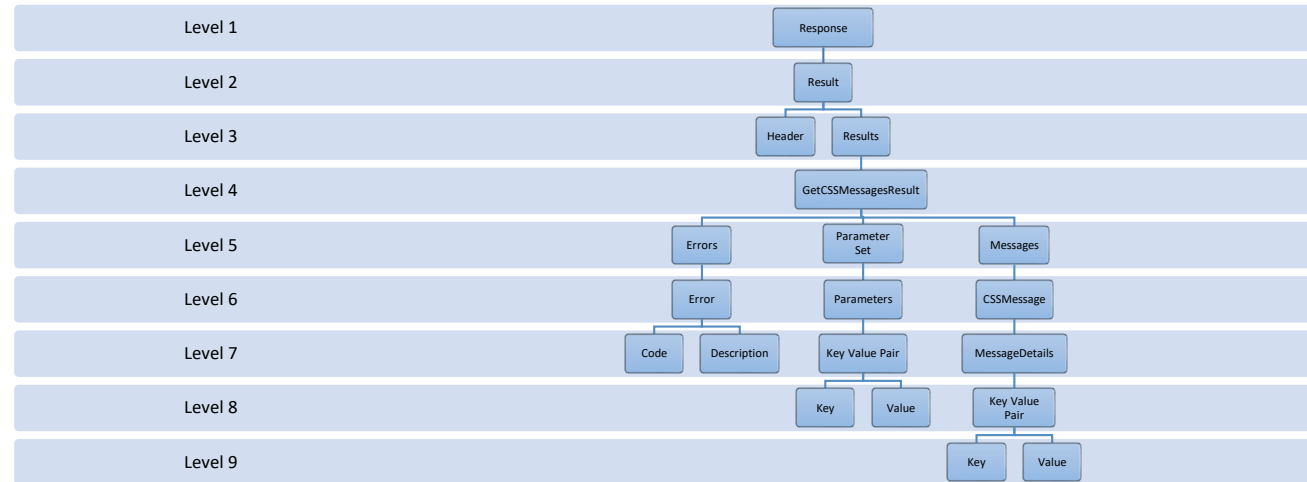
15.2 Method Inputs



15.3 Supported Parameters

Parameter Name	Description
MPAN	Mandatory.
EventType	Optional. Accepted values: RegistrationSecuredInactiveSynchronisation RegistrationEventSynchronisation RegistrationPendingSynchronisation RegistrationCancelledSynchronisation RegistrationSecuredActiveSynchronisation RetailEnergyLocationSynchronisation
EventDateFrom	Optional.
EventDateTo	Optional.

15.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the “GetRELAddresses” web service method.
2	Result	Encapsulates the result returned by the “GetRELAddresses” web service method.
3	Header	Holds the following web service processing details related to the request: RequestId. A unique integer value generated for the request. RequestDate. The date / time that the request was received by the web service. ResponseTime. The time taken for the web service to process the request.

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		VersionNumber. Web service version number.
3	Results	A collection of "Result" objects.
4	GetCSSMessagesResult	Encapsulates the CSS Messages for a requested MPAN together with an errors collection and the Parameter Set from the request.
5	Errors	A collection of "Error" objects.
6	Error	Encapsulates details of an individual error. See section Appendix A for the list of possible error codes.
7	Code	Holds the error code.
7	Description	Holds the error description.
5	Parameter Set	The Parameter Set from the request.
6	Parameters	Encapsulates the Parameter objects.
7	Key Value Pair	Holds a parameter data item key and value. As a pair.
8	Key	Holds the name of a requested search parameter.
8	Value	Holds the value of a requested search parameter.
5	Messages	Encapsulates the CSSMessage objects.
6	CSSMessage	Encapsulates the MessageDetails object.
7	MessageDetails	Holds a collection of key value pair data items.
8	Key Value Pair	Holds a REL data item key and value.
9	Key	Holds the name of a REL data item.
9	Value	Holds the value of a REL data item.

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15.5 Response Data Items

Data Item	Data Item Type	Nullable	Max Length	Possible Values	Example Values	Legacy	MHHS
mpan_core	Numeric	False	13		1591017864341	Y	Y
event_type	String	True	255	RegistrationSecuredInactiveSynchronisation RegistrationEventSynchronisation RegistrationPendingSynchronisation RegistrationCancelledSynchronisation RegistrationSecuredActiveSynchronisation RetailEnergyLocationSynchronisation	RegistrationSecuredInactiveSynchronisation	Y	Y
event_date	Date	True	N/A		2021-02-18 10:07:20.000	Y	Y
event_status	String	True	255		Ok	Y	Y
fuel_type	String	True	1		E	Y	Y
registration_id	String	True	255		3841f732-aad5-41ab-a9ea-c6e620dcc8bd	Y	Y
registration_status	String	True	255		Pending	Y	Y
registration_status_from_date	Date	True	N/A		2021-02-18 10:07:20.000	Y	Y
supplier_mpid	String	True	4		UGAZ	Y	Y
supplier_role	String	True	255		X	Y	Y
supply_start_date	Date	True	N/A		2021-02-18 10:07:20.000	Y	Y
domestic_premises_indicator	Boolean	True			0	Y	Y
registration_active_date	Date	True	N/A		2021-02-18 10:07:20.000	Y	Y
registration_inactive_date	Date	True	N/A		2021-02-18 10:07:20.000	Y	Y
supplier_dip_id	varchar	True	10		1234567890	EMPTY	Y

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16 SearchAddress

16.1 Method Purpose

The "SearchAddress" method allows the caller to retrieve both the MPL address and REL address data matching a given search criteria.

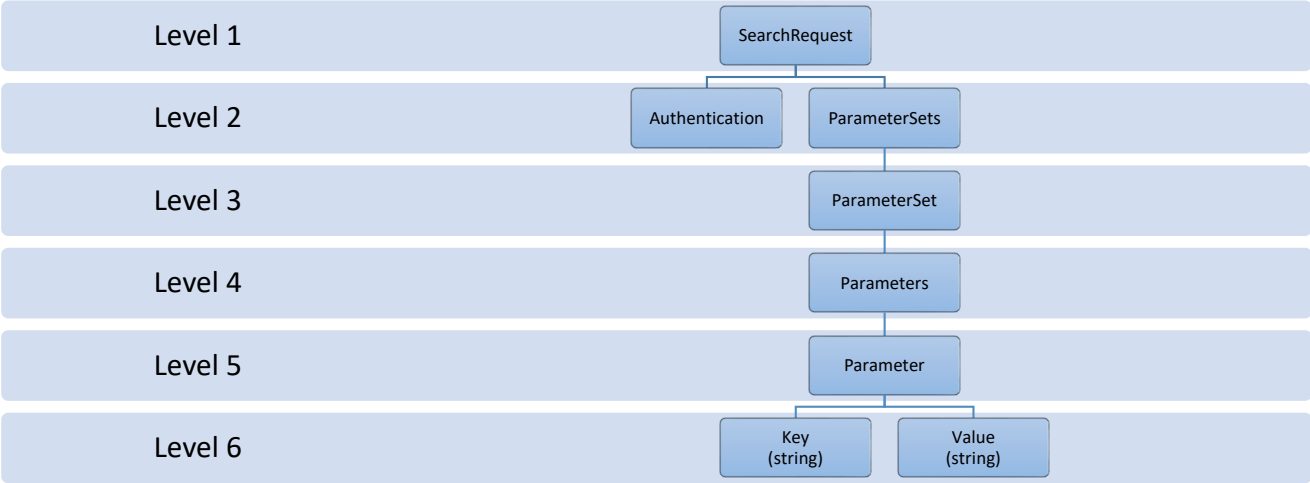
If the "IsForSwitching" parameter is provided with a value of "true", the search is performed against all current MPL and REL data. Current REL data is that which was received on the latest RetailEnergyLocationSynchronisation message, as determined by Event Date. Historical MPL and REL data will not be searched against.

If a REL address match is found, the UPRN associated with the REL address is used to return all REL address data for that UPRN.

If the "IsForSwitching" parameter is provided with a value of "false", or not provided at all, the search is performed against the MPL data only.

The method returns MPL and/or REL address data only, no other MPAN or meter data is returned.

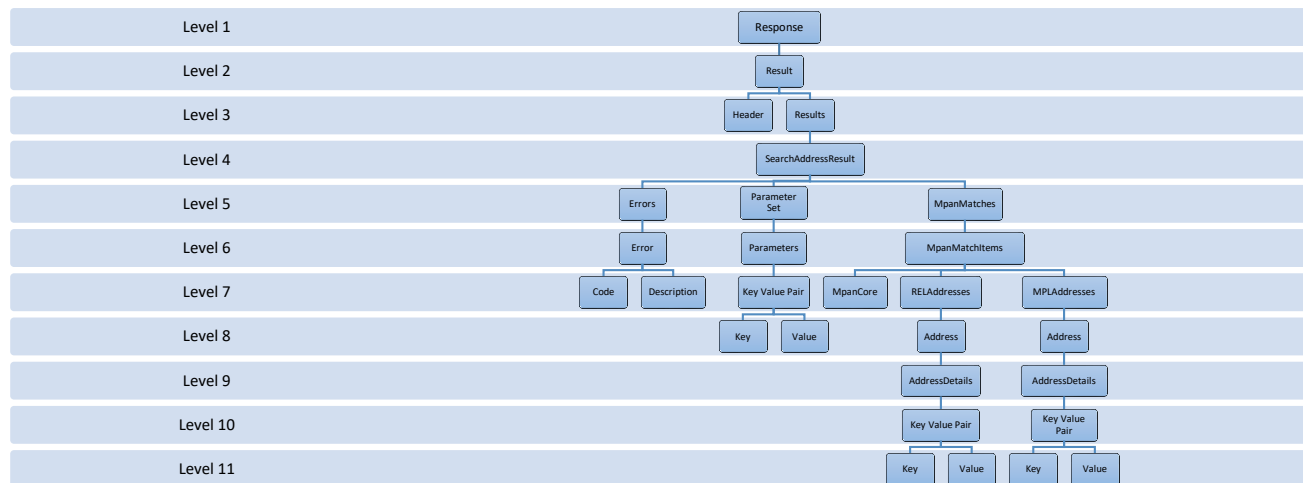
16.2 Method Inputs



16.3 Supported Parameters

Parameter Name	Description
IsForSwitching	Optional. Holds a Boolean value that indicates whether the process calling the web service is doing so for the purposes of switching. If this field does not hold a value of "true" or "1" no result will be returned. Instead, an error message will be returned. The default value for this parameter is "false". If not provided, this field will default to "false".
SearchTerm	Optional. A string to match the MPL and/or REL address data with.
Postcode	Mandatory. Full or partial postcode.

16.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the "SearchAddress" web service method.
2	Result	Encapsulates the result returned by the "SearchAddress" web service method.
3	Header	Holds the following web service processing details related to the request: RequestId. A unique integer value generated for the request. RequestDate. The date / time that the request was received by the web service. ResponseTime. The time taken for the web service to process the request. VersionNumber. Web service version number.
3	Results	A collection of "Result" objects.
4	SearchAddressResult	Encapsulates the Address for a requested MPAN together with an errors collection and the Parameter Set from the request.
5	Errors	A collection of "Error" objects.
6	Error	Encapsulates details of an individual error. See section Appendix A for the list of possible error codes.
7	Code	Holds the error code.
7	Description	Holds the error description.
5	Parameter Set	The Parameter Set from the request.
6	Parameters	Encapsulates the Parameter objects.
7	Key Value Pair	Holds a parameter data item key and value. As a pair.
8	Key	Holds the name of a requested search parameter.

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8	Value	Holds the value of a requested search parameter.
5	MpanMatches	Encapsulates the matched MPAN object.
6	MpanMatchItems	Encapsulates the matched MPAN object items.
7	MpanCore	The MPAN Core
7	RELAddress	Encapsulates the REL address data.
7	MPLAddress	Encapsulates the MPL address data.
8	Address	Encapsulates the Address
8	AddressDetails	Holds a collection of key value pair data items.
9	Key Value Pair	Holds a data item key and value.
10	Key	Holds the name of a data item.
10	Value	Holds the value of a data item.

16.5 Response Data Items

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
MpanCore	MPAN core.	Numeric	False	13	1591017864341	<u>Y</u>	<u>Y</u>
mhhs_indicator	Indicates whether MPAN is Legacy, MHHS or Reversed	char	False	1	R	Y	Y
mhhs_indicator_efd	MHHS indicator effective from date	char	True	8	YYYYMMDD	Y^{#1}	Y

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^{#1} In legacy arrangements, the MHHS Indicator EFD will be null where an MPAN has never migrated but will be populated with the effective date of a reverse migration.

MPLAddresses:

Version/Status: [3.1.5 \(Final\)](#)

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Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
mpan_core	MPAN core.	String	True	40	1591017864341	Y	Y
address_line_1	Metering Point Address Line 1	String	True	40	FLAT 14	Y	Y
address_line_2	Metering Point Address Line 2	String	True	40	KINGS LODGE	Y	Y
address_line_3	Metering Point Address Line 3	String	True	40	SWAN HOUSE	Y	Y
address_line_4	Metering Point Address Line 4	String	True	40	BEDFORD	Y	Y
address_line_5	Metering Point Address Line 5	String	True	40	HIGH STREET	Y	Y
address_line_6	Metering Point Address Line 6	String	True	40	BOURNE END	Y	Y
address_line_7	Metering Point Address Line 7	String	True	40	SEDDINGTON	Y	Y
address_line_8	Metering Point Address Line 8	String	True	40	SANDY	Y	Y
address_line_9	Metering Point Address Line 9	String	True	40	FAKENHAM	Y	Y
postcode	Metering Point Postcode	String	True	10	DH1 6AD	Y	Y

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RELAddresses:

Data Item	Description	Data Item Type	Nullable	Max Length	Example Values	Legacy Arrangements	MHHS Arrangements
uprn		Numeric	False	N/A	4	Y	Y
mpan_core	MPAN core.	String	True	40	1591017864341	Y	Y
address_source		String	False	255	MPL	Y	Y
secondary_name	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	String	True	255	Flat 2	Y	Y

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	property. "London House" in this case will be the Primary Name of the parent property						
primary_name	This is the Primary Addressable Object description. This is normally the name and or number of the property	String	True	255	London House	<u>Y</u>	<u>Y</u>
street_2	LPI – Blank DPA - dependant thoroughfare	String	True	255	Witton Grove East	<u>Y</u>	<u>Y</u>
street_1	LPI - derived from Street DPA - the Thoroughfare	String	True	255	Witton Grove	<u>Y</u>	<u>Y</u>
locality_2	LPI - Blank DPA – double dependant locality	String	True	255	Durham East	<u>Y</u>	<u>Y</u>
locality_1	LPI – derived from Street DPA – dependant locality	String	True	255	Durham	<u>Y</u>	<u>Y</u>
town		String	True	255	Pity Me	<u>Y</u>	<u>Y</u>
postcode		String	True	8	DH1 6AD	<u>Y</u>	<u>Y</u>
logical_status		Numeric	True	N/A	1	<u>Y</u>	<u>Y</u>
language		String	True	3	ENG	<u>Y</u>	<u>Y</u>
organisation		String	True	255	ECONOGROUP	<u>Y</u>	<u>Y</u>
address_type ³		String	True	3	DPA	<u>Y</u>	<u>Y</u>
confidence_score		Numeric	True	N/A	100	<u>Y</u>	<u>Y</u>
classification		String	True	6	RD06	<u>Y</u>	<u>Y</u>
latitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>

³ Address Type = DPA (Delivery Point Address) – Post Office delivery address
Address Type = LPI (Local Property Identifier) – Addresses sourced from Local Authority data

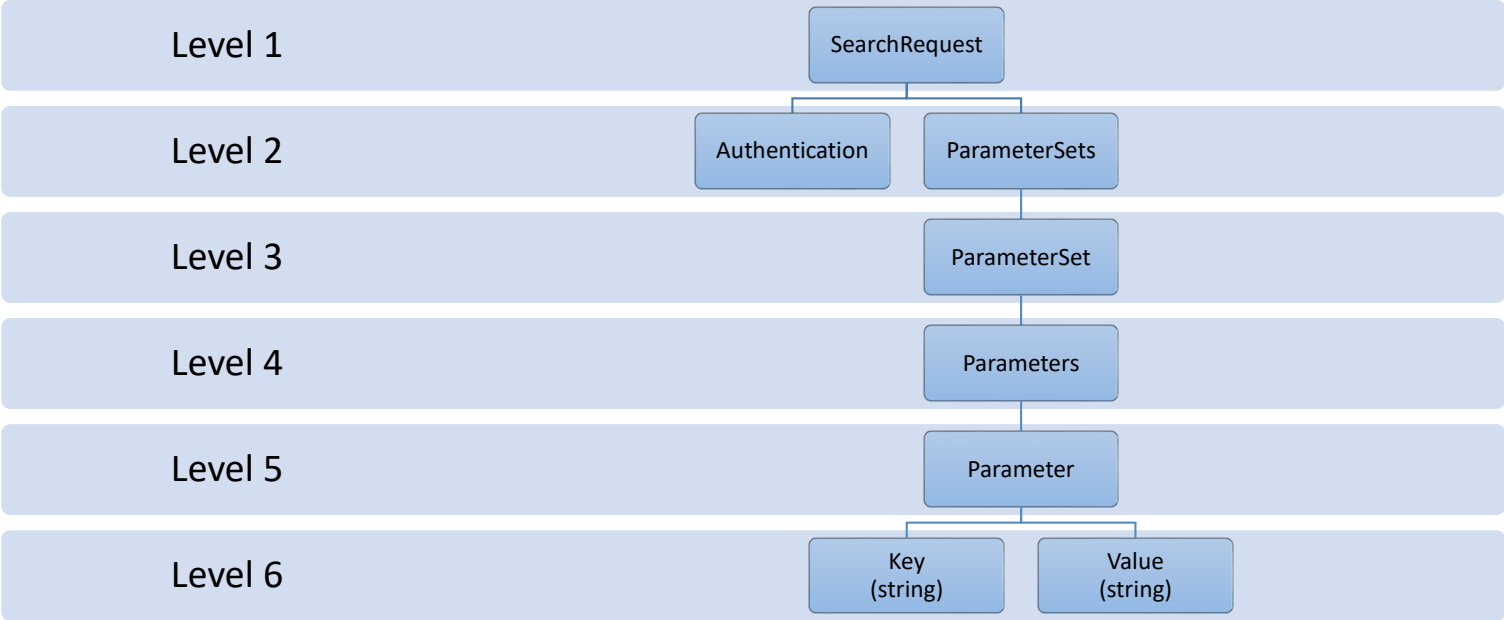
longitude		Numeric	True	N/A	1.0000	<u>Y</u>	<u>Y</u>
updated_date		Date	False	N/A	2021-02-18 10:07:20.000	<u>Y</u>	<u>Y</u>

17 GetAssociatedMPANs

17.1 Method Purpose

This method returns association data for a given MPAN. The method will return all MPANs that are either of an import or export association to the given MPAN. The method will act upon only one given parameter set.

17.2 Method Inputs



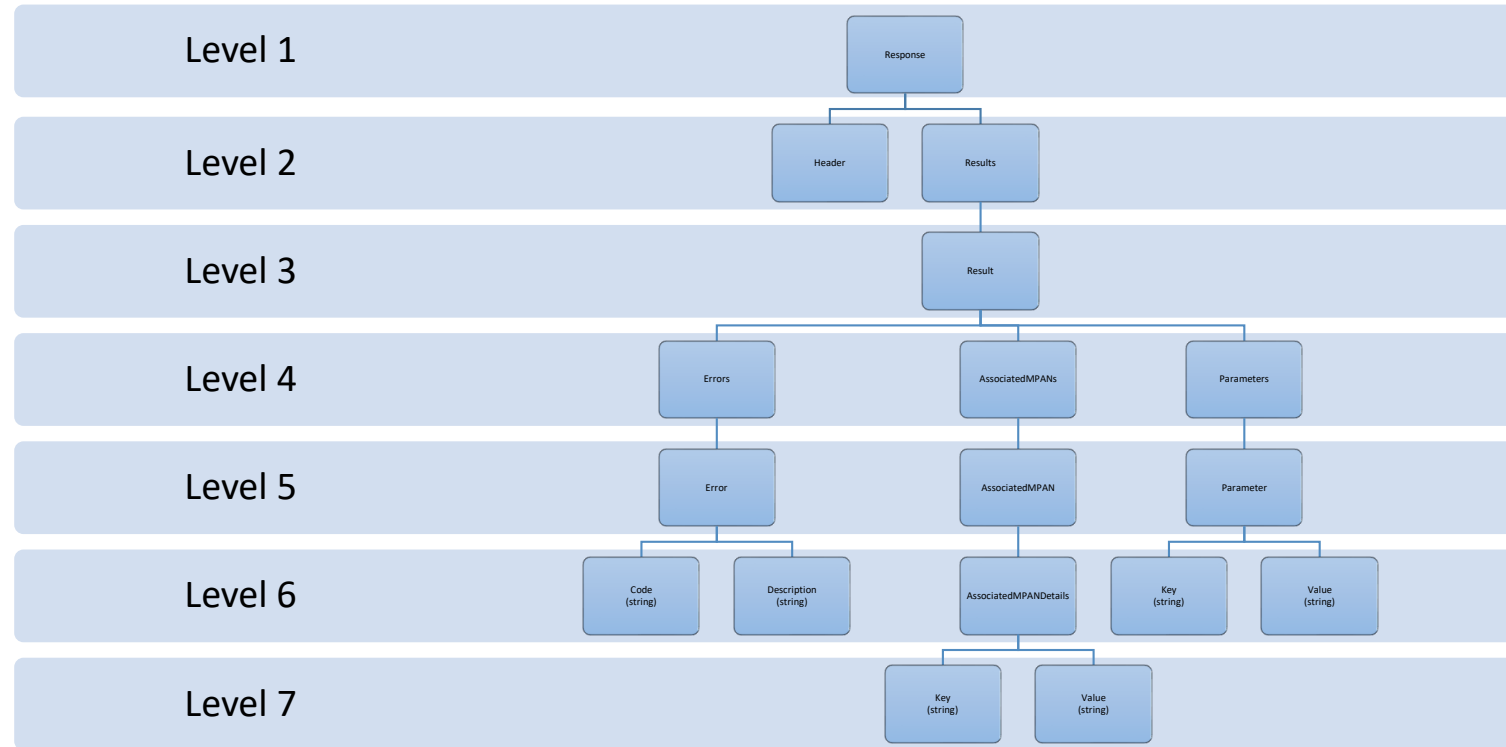
17.3 Supported Parameters

Parameter Name	Description
MPAN	Mandatory.

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17.4 Method Outputs



Level	Field	Description
1	Response	Encapsulates the response returned by the web service method.
2	Header	Holds the following web service processing details related to the request:

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		<p>RequestId. A unique integer value generated for the request.</p> <p>RequestDate. The date / time that the request was received by the web service.</p> <p>ResponseTime. The time taken for the web service to process the request.</p> <p>VersionNumber. Web service version number.</p>
2	Results	A collection of "Result" objects; one for each requested mpan.
3	Result	Encapsulates the utility technical details for a requested mpan.
4	Errors	A collection of "Error" objects; one for each error identified while processing a requested technical details search.
5	Error	Encapsulates details of an individual technical details search error. See section Appendix A for the list of possible error codes.
6	Code	Holds the error code.
6	Description	Holds the description of the error.
4	AssociatedMPANs	Encapsulates each of the related MPAN records found.
5	AssociatedMPAN	Encapsulates the details collection of each MPAN record, one for each MPAN found
6	AssociatedMPANDetails	A collection of details relating to the found MPAN
7	Key	Holds the name of a data item.
7	Value	Holds the value of a data item.
4	Parameters	Encapsulates the Parameter objects.
5	Parameter	Parameter object.
6	Key	Holds the name of a requested search parameter.
6	Value	Holds the value of a requested search parameter.

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17.5 Response Data Items

Data Item	Data Type	Item	Nullable	Max Length	Possible Values	Example Values	Legacy Arrangements	MHHS Arrangements
import_mpan_core	Decimal		False	13		1899914439999	<u>Y</u>	<u>Y</u>
export_mpan_core	Decimal		False	13		1234567890123	<u>Y</u>	<u>Y</u>
association_efd	Date		False	8		20190712	<u>Y</u>	<u>Y</u>
association_etd	Date		True	8		20190712	<u>Y</u>	<u>Y</u>
import_mpan_core_mhhs_indicator	char		False	<u>1</u>		<u>R</u>	<u>Y</u>	<u>Y</u>
import_mpan_mhhs_indicator_efd	char		True	<u>8</u>		<u>YYYYMMDD</u>	<u>Y^{#1}</u>	<u>Y</u>
export_mpan_core_mhhs_indicator	char		False	<u>1</u>		<u>R</u>	<u>Y</u>	<u>Y</u>
export_mpan_mhhs_indicator_efd	char			<u>8</u>		<u>YYYYMMDD</u>	<u>Y^{#1}</u>	<u>Y</u>

^{#1} In legacy arrangements, the MHHS Indicator EFD will be null where an MPAN has never migrated but will be populated with the effective date of a reverse migration.

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Updated to Y following EES Provider confirmation that the ETD will be available in MHHS arrangements.

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18 Web Service Exceptions

For clients accessing the service over SOAP/XML, exceptions are returned as SOAP faults. For clients accessing the service using JSON, exceptions are returned as JSON objects .

Figure 9 below shows the structure of exception objects returned by the ECOES API version 1.0 web service methods.

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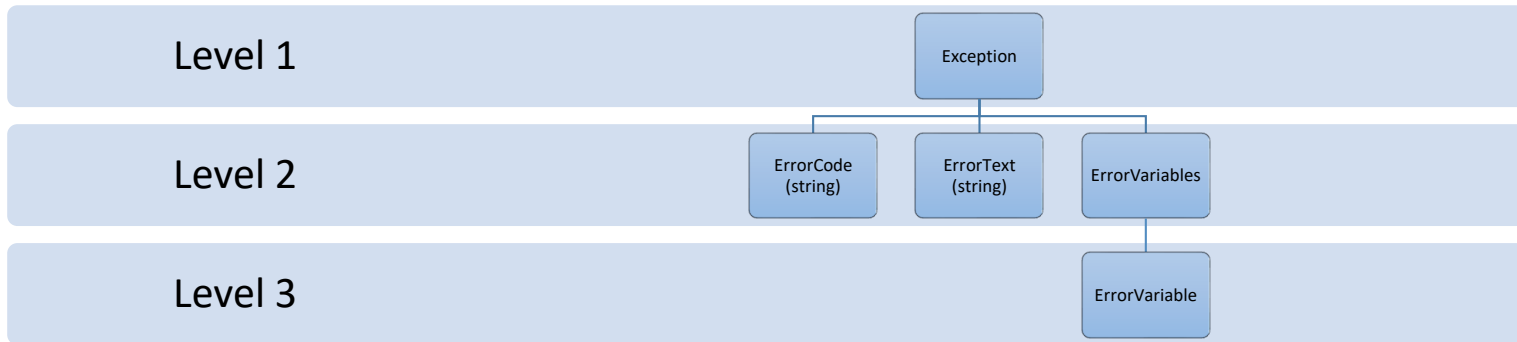


Figure 9

Appendix A - Error Codes

Code	Description	GetTechnicalDetailsByMpan	SearchUtilityAddress	GetRelatedMPANs	GetRELAddresses	SearchRELAddress	GetCSMessages	SearchAddress	GetAssociatedMPANs
DAT1001	Metering Point for MPAN was not found.	X							
DAT1002	MPAN core was not found.	X	X						

VAL1003	Your current request count of {0} exceeds your maximum request limit of {1}	X	X					X	
VAL1004	Your message contains {0} requests which exceeds the maximum parameter input of {1} for message {2}	X	X						
VAL1005	You are not authorised to access method {0}	X	X		X	X	X	X	
DAT1003	Your request contains {0} results which exceeds the maximum result limit of {1}.	X							
VAL1007	Your current usage ({0} requests) of method {1} has exceeded the method's maximum usage limit of {2}	X	X						
VAL2020	Insufficient search criteria; at least two search parameters must be supplied when a full postcode is not specified.		X						
VAL2025	A minimum of three characters are required for the "PostCode" search parameter.		X						
VAL2400	A value must be supplied for the "utilityType" parameter.	X							
VAL2410	A value must be supplied for the "utilityKey" parameter.	X							
VAL2460	A value must be supplied for the "MeterSerialNumber" parameter.		X						
DAT2010	No address found for the specified criteria.		X						
DAT2060	No details found for the specified utility type and key.	X							
DAT2080	No details found for the specified utility type and meter serial number.		X						
DAT2430	Too many address records found.		X						
VAL006	Can't search using both Address and Meter Serial Number. Must search using one or the other.		X						
VAL008	You are not permitted to search via Meter Serial Number.		X						

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DAT2460	No related MPANs found.			X					
DAT2470	No REL found for specified criteria				X	X	X		
DAT2490	The RELPermission parameter must be set to "true".				X	X			
DAT2600	Maximum query results exceeded				X	X	X	X	
VAL1010	MPAN restricted by portfolio access	X	X	X	X	X	X	X	X
DAT2480	No associated MPANs found.								X