

Detailed Specification

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Version 1.03



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Introduction

This document aims to provide a closer look at the APIs the National Grid Electricity System Operator (NG ESO) offers to enable access to the GB Single Market Platform (SMP) for Market Participants, via the Single Market Platform Application Programming Interface (SMP API). The SMP API provides a potentially more efficient way for Market Participants to interact with the SMP.

This document aims to provide Market Participants with:

- An understanding of what is required to interact with the SMP API
- An overview of the APIs published by the SMP API

Further information

More information about the Single Market Platform, including the SMP API, is available on the Single Market Platform page of the NG ESO website.

To discuss opportunities offered by Single Market Platform and the SMP API, please contact NG ESO via your account manager or email Commercial.Operation@nationalgrideso.com.

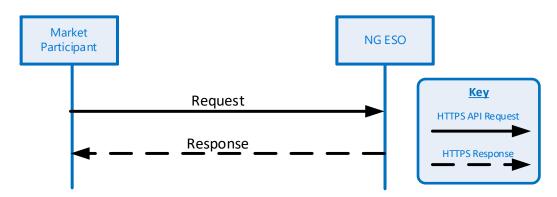
Overview

Transactions with the SMP API may be synchronous or asynchronous¹ and are made up of one or more HTTPS API Calls (All asynchronous transactions will be composed of an assembly of synchronous API calls) While a limited number of these HTTPS API calls will be initiated by NGESO, the majority will be initiated by the Market Participant.

SMP Transaction HTTP API Call 1 HTTP API Call ... HTTP API Call n

Transaction Patterns

Synchronous SMP API Transaction

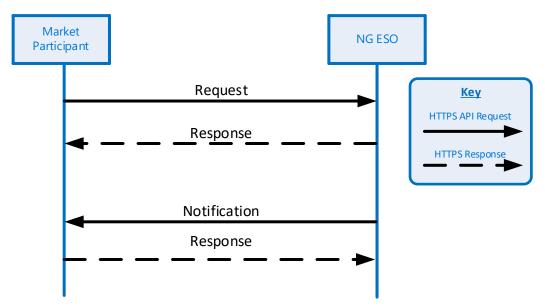


Synchronous SMP API Transactions will return the results of the requested transaction in the return payload of the HTTPS Call. The flows of information in this case will generally be:

- Market Participant initiates the transaction using an HTTPS API Request
- NG ESO processes the transaction
- NG ESO returns the results of the transaction in the response payload for the HTTPS API Call.

¹ An Asynchronous Transaction may be long running, so results of such a transaction are unlikely to be immediately available

Asynchronous SMP API Transaction



Asynchronous SMP API Transactions will return the results of the requested transaction in a notification, and Transaction State will be updated as the request progresses. The flows of information in this case will generally be along the format of:

- Market Participant initiates the transaction using an HTTPS API Request
- NG ESO validates the transaction request
- In the return HTTPS payload, NG ESO provides a Transaction ID and either indicates via Transaction State whether the transaction has been accepted ("Load Completed" or rejected ("Load Failed") for further processing. In the event of a "Load Failed" being issued, the issues in the request should be resolved and a new request made.
- If NG ESO accepts the transaction.
 - After a period, NG ESO will initiate an HTTPS API call to the Market Participant with the transaction results. The Transaction State at this time be either "Process Completed" if no issues were found, or "Process Error" if issues were encountered.
 - The Market Participant is expected to acknowledge receipt of the transaction results with an HTTPS 200 OK message.

The Market Participant can query the state of a transaction at any time after the TransactionID has been issued using the Get Transaction Status API.

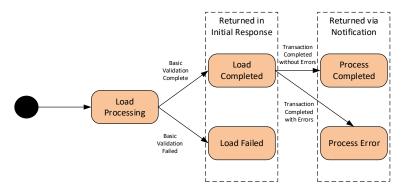


Diagram: Transaction States

Available SMP Transactions

Transaction	Туре	Purpose	Pre-requisites		Associated API Calls
Authenticate	Sync	Request an Authentication Token	None		Authenticate
Manage Asset	Async	Create new Asset(s) in SMP	Must have a valid authentication Token		Create Asset Notification GetTransactionState
Read Asset	Async	Get details of Assets owned or managed by the user's account in SMP	Must have a valid authentication Token	Select Asset Notification	
Manage Unit	Async	Create a new Unit in SMP	Must have a valid authentication Token		Create Unit Notification GetTransactionState
Read Unit	Async	Get details of Units owned or managed by the user's account in SMP	Must have a valid authentication Token	Select Unit Notification	

Read Service Catalog	Async	Get details of Services available in SMP	Must have a valid authentication Token	Select Service Catalog Notification
Manage Asset Testing Service	Async	Create new Asset Testing Service(s) in SMP	Must have a valid authentication Token	Create Asset Testing Service Notification GetTransactionState
Update Unit	Async	Update Unit details and Asset Alignments	Must have a valid authentication Token	Update Unit Notification GetTransactionState

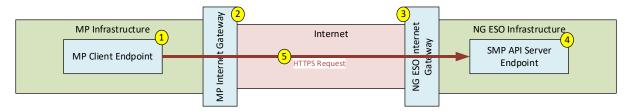
Available SMP API Calls

API Name	Initiated by	Purpose	Pre-requisites	Request	Response
Authenticate	Market Participant	Request an Authentication Token for use in other API Calls	None	Authentication Credentials	JWT token
Create Asset	Market Participant	Start a transaction to create new Asset(s) in SMP	Must have a valid authentication Token	Asset JSON (max 1000 Assets)	Transaction ID or Asset Error JSON
Create Unit	Market Participant	Start a transaction to create a new Unit in SMP	Must have a valid authentication Token	Unit JSON (max 1 unit)	Transaction ID or Unit Error JSON
Update Unit	Market Participant	Start a transaction to update a Unit in Draft Status in SMP	Must have a valid authentication Token	Unit JSON (max 1 unit)	Transaction ID or Unit Error JSON
Create Asset Testing Service	Market Participant	Start a transaction to create a new Asset Testing Service in SMP	Must have a valid authentication Token	Asset Testing Service JSON (max 1000 Asset Testing Services)	Transaction ID or Unit Error JSON
Select Asset	Market Participant	Get information about Assets linked to the user's	Must have a valid authentication Token		Asset JSON

		account in SMP			
Select Unit	Market Participant	Get information about Units linked to the user's account in SMP	Must have a valid authentication Token		Unit JSON
Get Transaction Status	Market Participant	Get the status of a submitted transaction	Must have a valid authentication Token Must have a valid Transaction ID	Transaction ID	Incomplete Transaction: Transaction Status Complete Transaction: Asset JSON or Unit JSON
Notify	SMP API	Notify the Market Participant of the results of an asynchronous transaction	SMP API must have been provided with URL, Username and Password in the API Call initiating the transaction.	Asset JSON or Unit JSON	-

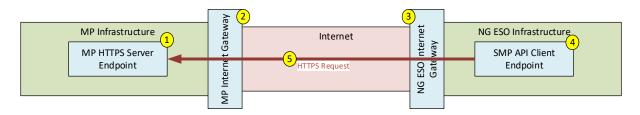
Market Participant Infrastructure Requirements

Market Participant Initiated Calls



#	Item	Type	Description
1	MP Client	Component	This is the Client Endpoint that will initiate a connection to the
	Endpoint	Component	SMP API.
	MP Internet		This is the Internet Gateway that provides connectivity between
2	_	Component	the Market Participant's Client Endpoint and the internet. It
	Gateway		should implement appropriate security measures.
			This is the Internet Gateway that provides connectivity between
3	NG ESO Internet	Component	the SMP API and the Internet. It implements security points and
3	Gateway		checks, including validating incoming flows are coming from
			known sources.
	SMP API Server		This is the HTTPS endpoint that the Market Participant will
4		Component	connect to when initiating a call to the SMP API. It will enforce
	Endpoint		that the client is using TLS1.2 or later.
	HTTPS API	_	This is an instance of a connection from Market Participant to
5	_	Flow	SMP API, for example to perform an authentication request or
	Request		submit a transaction.

SMP API Initiated Calls



#	Item	Type	Description
1	MP HTTPS Server Endpoint	Component	This is the server endpoint that the SMP API will connect to when it wants to send data to the Market Participant, e.g. the results of an Asynchronous Transaction. This must implement at least TLS1.2 (ideally 1.3+) and Basic Authentication.
2	MP Internet Gateway	Component	This is the Internet Gateway that provides connectivity between the Market Participant's HTTPS Server Endpoint and the internet. It should implement appropriate security measures to ensure the integrity of the connections.

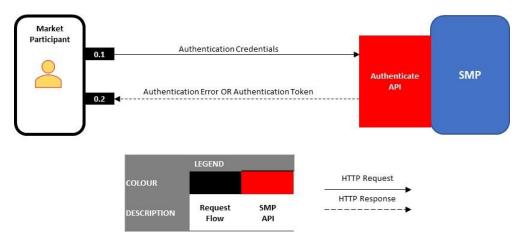
3	NG ESO Internet Gateway	Component	This is the Internet Gateway that provides connectivity between the SMP API and the Internet. It implements security best practices.
4	SMP API Client Endpoint	Component	This is the Endpoint that will initiate a connection to the Market Participant. It will enforce that the Market Provider's HTTPS Endpoint is using TLS1.2 or later and provide the Username/Password for authorisation prior to presenting the outgoing message to the MP HTTPS Endpoint.
5	HTTPS Request	Flow	This is an instance of a connection from SMP API to Market Participant, for example to carry the results of an asynchronous transaction. Upon receipt of the data from SMP API, the Market Participant's HTTPS Server Endpoint should issue an HTTPS 200 OK message.

It should be noted that, to receive the results of an asynchronous transaction, the URL of the MP HTTPS Server Endpoint, and the username and password to be used for Basic Authentication will need to be submitted as part of the call initiating the asynchronous transaction. Providing this dynamically as part of the initiating call means the Market Participant can rotate the username/password in use and switch to alternative sites without manual intervention.

API: Authenticate

Overview

Market Participant to make a call to Authenticate API to get JWT Token which can then be provided to authorise access to other SMP APIs (e.g., Create Asset, Get Transaction Status etc).



#	Dataflow	Transfer Type	Payload
0.1	Request Transaction Status	Request	Authentication Credentials
0.2	Receive Transaction status	Response	One of: • Authentication Error • Authentication Token

Specification

Submission

The submission to the Authenticate API is a POST request made up of the following parameters:

PARAMETER	DESCRIPTION
client_id	Client ID for the SMP API; provided by NG ESO for access during registration
client_secret	Client Secret for the SMP API; provided by NG ESO as part of registration
grant_type	Grant being requested – always "password"
username	Market Participant's SMP API Username; provided by NG ESO as part of registration
password	Market Participant's SMP API Password; provided by NG ESO as part of registration
Scope	Scope for the SMP API; provided by NG ESO as part of registration

Response

The Authentication API will response with a JSON Payload of the following format:

```
Key
{
  "token_type": Always "Bearer"
  "scope": Will match the Scope provided
  "expires_in": Time to expiry of token
  "ext_expires_in": Time to expiry of token
  "access_token": The access token that can be used to authorise access to other SMP API calls.
}
```

Payload Examples

Submission Example

Rather than post a sample URL, we have included a sample CURL Request as that shows the required information clearly:

```
curl --location --request POST 'https://login.microsoftonline.com/f98a6a53-25f3-
4212-901c-c7787fcd3495/oauth2/v2.0/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--header 'Cookie: fpc=AsOugKFV9eNChNiNJ4sd8jj2f-
MfAQAAAOc919oOAAAA; stsservicecookie=estsfd; x-ms-gateway-slice=estsfd' \
--data-urlencode 'client_id=my_client_id \
--data-urlencode 'client_secret=my_client_secret' \
--data-urlencode 'grant_type=password' \
--data-urlencode 'username=my_username' \
--data-urlencode 'password=my_password' \
--data-urlencode 'scope=api://57070d1e-35df5-4e11-9d04-47033e3048be/SMP_API'
```

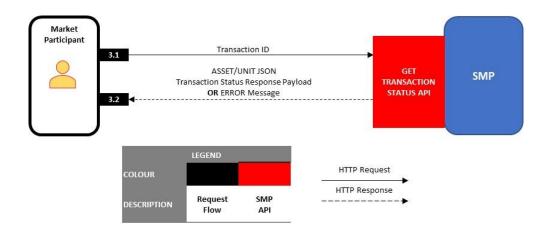
Response Example

```
"token_type":"Bearer",
    "scope":"api://57070dle-35df5-4e11-9d04-47033e3048be/SMP_API"
    "expires_in":4918,
    "ext_expires_in":4918,
    "access_token":"eyJhbGciOiJIUzI1NiJ9.eyJ1bmlxdWVfbmFtZSI6IlNNUFVzZXJARW1haWxEb21haW4u
Q29tIiwiYXBwaWRhY3IiOiIxIiwic2NvcGUiOiJhcGk6Ly81NzA3MGQxZS0zNWRmNS00ZTExLTlkMDQtNDcwMzNlMzA
00GJlL1NNUF9BUEkiLCJncmFudF9UeXBlIjoiUGFzc3dvcmQiLCJhcHBpZCI6IjY3MDllYjEyLTM10TUtNjdlMi05ZD
A0LTc2ZjIzZWJjMDFiZSIsImlzcyI6IkVTTyIsImNsaWVudF9zZWNyZXQiOiJNeVNlY3JldCIsImV4cCI6IjIwMjItM
TEtMTdUMTA6Mjk6NDguNjI4WiIsImlhdCI6IjIwMjItMTEtMTdUMTA6Mjk6NDguNjI4WiIsImNsaWVudF9pZCI6Ik15
Q2xpZW50SUQifQ.PZgKpDsrPS9mDMz8uIL6nMChn5QHs2lhGhqTLNz6VGk"
}
```

API: Get Transaction Status

Overview

Once an Asynchronous Transaction has been submitted and accepted, the resulting Transaction ID can be used to query the status of the transaction. If the transaction has completed, this call will return the payload that would have been sent via the resulting Notify Call.



#	Dataflow	Transfer Type	Payload
3.1	Request Transaction Status	Request	Get Transaction Status Request
3.2	Receive Transaction status	Response	One of: Transaction ID Error Transaction Status Transaction Asset Transaction Unit

Specification

Prerequisites

The Market Participant must

- have a valid JWT token issued by the Authenticate API
- have a valid TransactionID Issued by an initial asynchronous transaction call such as Create Asset or Create Unit.

Request

The request is a GET call with the transaction ID suffixed to the GetTransactionStatusURL, i.e. <GetTransactionStatusURL>/<Transaction ID>, and the Authorisation JWT included in the headers,

Response

Invalid Transaction / Incomplete Transaction

If the transaction is unknown, then the API will return an Invalid Transaction response. If the transaction is incomplete, it will return the current status of the Transaction.

Complete Transaction – Create Unit

Please see Notify Response Payloads in Create Asset

Complete Transaction – Create Asset

Please see Notify Response Payloads in Create Asset

Payload Examples

Response – Transaction Incomplete

```
"Transaction ID":"000000963",
   "Transaction Status":"Load Completed",
   "Transaction Type":"Asset",
   "Action Type":"Create"
}
```

Response - Invalid Transaction

```
{
    "Transaction ID":"000000462",
    "Error":"Unable to locate transaction"
}
```

Response – Create Asset Complete

Please see Notify Sample Payloads in Create Asset

Response – Create Unit Complete

Please see Notify Sample Payloads in Create Unit

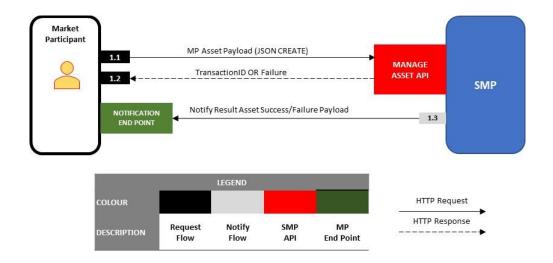
Model – Transaction

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
0	Transaction ID	Text(10)	0000000418		Will be null if payload fails basic validation
М	Transaction Status	Text(10)	Process Completed	See Transaction State Diagram	
М	Transaction Type	Text(10)	Asset	"Asset", "Unit"	
М	Action Type	Text(10)	Create	"Create"	

API: Create Asset

Overview



#	Dataflow	Transfer Type	Payload
1.1	Submit Asset Transaction	Request	JSON Asset Payload
1.2	Transaction Response	Response	One of: • Failed Data Validation • Transaction ID
1.3	Notification	Request	 Asset Transaction JSON file providing: Successful records with SMP Asset ID Unsuccessful records with errors

Specification

Request

The request is a simple JSON payload made up of 2 sections:

Key	Value
<notify block="">,</notify>	Information required for SMP API to notify of transaction completion – see "Model – Notify" for key-value pairs contained in <i><notify< i=""> Block></notify<></i>
"Assets": [{ <create asset="">}, {<create asset="">}]</create></create>	Section containing information on the Assets to be loaded into SMP.It will consist of one or more instance of <create assetk="">. See "Model – Create Asset" for key-value pairs.</create>

}

Response

A successful response is a JSON payload made up of 2 sections

```
{
     <Transaction Block>,

"Assets":
     [
      {<Asset Block>},
      {<Asset Block>}
]
}
```

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

Optional Section containing information on the Assets to be loaded into SMP.It will consist of one or more instance of <Asset Block>. See "Model – Create Asset" for key-value pairs.

Notify

After a Create Asset transaction has completed, the resulting notification will consist of a JSON payload made up of 2 sections

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>* Section containing information on the Assets to be loaded into SMP.It will consist of one or more instance of *<*Asset Block*>*. See "Model – Asset" for key-value pairs.

Payload Models

Model - Notify

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
М	Notification Address	Text(255)	https://api.myco.com/SMPNotify/		
	Notification	Text(255)	MyUsername		
0	Username	Text(233)	Wyosemanie		
	Notification	Text(255)	MyPassword		
Ü	Password	TEXI(233)	wyrassworu		

Model – Create Asset

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
М	Asset Name	Text(80)	MyAssetName		Must be Unique
0	Asset Owner Company ID	Text(255)	04031152		Companies House Number
M	Asset Type	Picklist (Multi- Select)	Generation Unit	See Appendix Picklist – Unit Types	
М	Applicable Market	Picklist	Balancing Services	See Appendix Picklist – Asset Markets	
М	Effective From Date	Date	2022-11-11	YYYY-MM-DD	Must be today or later
М	Fuel Type	Picklist	Batteries	See Appendix Picklist – Fuel Types	
0	Other Fuel Type	Text(255)	My Fuel Type		Mandatory if "Fuel Type" = "Other"
0	Generation Capacity MW	Number(15,3)	50	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Unit: MW

					Mandatory if "Asset
					Type" = "Generation Unit"
	Demand capacity				Unit: MW
0	MW	Number(15,3)	50	XXXXXXXXXXXXXXXXXX	Mandatory if "Asset
					Type" = "Demand Unit"
М	Connection Type	Picklist	Firm	See Appendix Picklist – Connection Type	
0	Connection Method	Picklist	Firm	See Appendix Picklist – Connection Method	
М	Connected to DNO	Picklist	True	See Appendix Picklist – Boolean	
		IO Picklist			Mandatory if "Connected to DNO" = True
0	DNO		SP Energy Networks	See Appendix Picklist - DNO	Must be one of 'National Grid Electricity Distribution' or 'UK Power Networks' if Applicable Market = RDP MW Dispatch
0	DNO Unique Reference Number	Text(10)	93265829452		Only required if "Connected to DNO" = True AND "Applicable Market" = "RDP MW Dispatch"
М	Connection Point Voltage	Picklist	400	See Appendix Picklist – Connection Point Voltage	Unit: KV
0	Other Connection Point Voltage kV	Number(16,2)	1100.00	XXXXXXXXXXXXXXXXYY	Unit: KV Mandatory if "Connection Point Voltage" = "Other"
М	Postcode	Text(8)	AB6 7GH		
		<u>``</u>			

М	Longitude	Number(3,15)	51.707079	+/- XXX.YYYYYYYYYYYYYY	Accepts -180 to +180
М	Latitude	Number(2,15)	-3.584902	+/- XX.YYYYYYYYYYYYY	Accepts -90 to +90
0	Nearest Node	Text(6)	EFG		Mandatory if "Applicable Markets = Balancing Services"
М	GSP	Picklist (Multi- Select)	ABHA_1	See Appendix Picklist - GSP	Must be one of ABHA_1, ALVE_1, AXMI_1, BRWA_1, EXET_1, INDQ_1, LAND_1 or TAUN_1 if the DNO = National Grid Electricity Distribution and the Applicable Market = RDP MW Dispatch Must be one of BOLN_1, NINF_1, SELL_1, CANT_1, RICH_1 if the DNO = UK Power Networks and the Applicable Market = RDP MW Dispatch
0	Other GSP	Text(10)	My GSP		Mandatory if "GSP" = "Others"
M	GSP Group ID	Picklist	Eastern England	See Appendix Picklist – GSP Group	Must be South Western England if the DNO = National Grid Electricity Distribution and the Applicable Market = RDP MW Dispatch

Must be South Eastern England if the DNO = UK Power Networks and the Applicable Market = RDP MW Dispatch

					NDF IVIVV DISPALCII
М	Primary Despatch Phone Number	Text(10)	7554456564		
М	Primary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Secondary Despatch Phone Number	Number(10)	7676567657		
М	Secondary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
0	Fax Despatch Phone Number	Text(10)	4645654643		
0	Fax Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Operational Metering Availability	Picklist	Yes	See Appendix Picklist – Operational Metering Availability	
0	MPAN Import	Text(13)	1001010101010.00		Mandatory if "Applicable Market" = "Balancing Services"
0	MPAN Export	Text(13)	1001010101011.00		Mandatory if "Applicable Market" = "RDP MW Dispatch"
0	Additional MPAN Import	Text(80)	1001010101010.00		Not allowed if "Applicable Market" = "RDP MW Dispatch"

0	Additional MPAN Export	Text(80)	1001010101011.00		Not allowed if "Applicable Market" = "RDP MW Dispatch"
0	Asset Size MW	Number(3,13)	50	XXX	Unit: MW
0	Site Contact Name	Text(255)	SMP User		
0	Site Contact Number	Number(10)	65767687688		
M	Site Street Address	Text(255)	Coronation Street		
М	Site City	Text(255)	Reading		
М	Site State or County	Text(255)	Berkshire		
М	Site Country	Text(255)	United Kingdom		
0	Agent or Applicant Operational Email	Email	smpuser@test.com		
0	Agent or Applicant Operational Phone	Number(10)	65767687688		

Model - Asset

This Model includes all fields in Model – Create Asset plus the following:

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload.

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
0	Asset ID	Number(10)	000000636	XXXXXXXXX	Will be returned if Assets Created successfully
0	Error Message	Long Text		0	Error Message

Model – Transaction

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
0	Transaction ID	Text(10)	0000000418		Will be null if payload fails basic validation
М	Transaction Status	Text(10)	Process Completed	See Transaction State Diagram	
М	Transaction Type	Text(10)	Asset	"Asset", "Unit"	
М	Action Type	Text(10)	Create	"Create"	

Payload Samples

Request

```
"Notification Address": "https://api.mycompany.com/SMPNotification",
"Notification Username": "MyUsername",
"Notification Password": "MyPassword",
"Action Type": "Create",
"Assets":
[
        "Asset Name": "MyAsset01",
        "Asset Type": "Generation Unit",
        "Applicable Market": "Balancing Services",
        "Effective From Date": "2023-09-01",
        "Fuel Type": "Batteries",
        "Generation Capacity MW":200,
        "Connection Type": "Firm",
        "Connected to DNO":true,
        "DNO": "ESB Networks",
        "Connection Point Voltage": "400",
        "Latitude":"-3.584902",
        "Longitude": "51.707079",
        "GSP": "ABHA 1",
        "GSP Group ID": "Eastern England",
        "Nearest Node": "MyNode",
        "Primary Despatch Phone Number": "7554456564",
        "Primary Despatch Phone Country": "United Kingdom",
        "Secondary Despatch Phone Number": "7676567657",
        "Secondary Despatch Phone Country": "United Kingdom",
        "Fax Despatch Phone Number": "4645654643",
        "Fax Despatch Phone Country": "United Kingdom",
        "Operational Metering Availability": "Yes",
        "MPAN Import": "1001010101010",
        "MPAN Export":"1001010101011",
        "Asset Size (MW)":180,
        "Site Contact Name": "Mr Site Contact",
        "Site Contact Number": "6576768768",
        "Site Street Address": "26 Coronation Street",
        "Site City": "Warwick",
        "Site State or County": "Warwickshire",
        "Site Country": "United Kingdom",
        "Postcode": "CV34 6DA"
    },
        "Asset Name": "MyAsset02",
        "Asset Type": "Generation Unit",
        "Applicable Market": "Balancing Services",
        "Effective From Date":"2023-09-01",
        "Fuel Type": "Batteries",
        "Generation Capacity MW":50,
        "Connection Type": "Firm",
        "Connected to DNO":true,
        "DNO": "ESB Networks",
        "Connection Point Voltage": "400",
        "Latitude": "-3.584902",
        "Longitude": "51.707079",
        "GSP": "ABHA_1",
        "GSP Group ID": "Eastern England",
        "Nearest Node": "MyNode",
        "Primary Despatch Phone Number": "7554456564",
```

```
"Primary Despatch Phone Country": "United Kingdom",
    "Secondary Despatch Phone Number": "7676567657",
    "Secondary Despatch Phone Country": "United Kingdom",
    "Fax Despatch Phone Number": "4645654643",
    "Fax Despatch Phone Country": "United Kingdom",
    "Operational Metering Availability": "Yes",
    "MPAN Import": "1001010101010",
    "MPAN Export": "1001010101011",
    "Asset Size (MW)": 180,
    "Site Contact Name": "Mr Site Contact",
    "Site Contact Number": "6576768768",
    "Site Street Address": "26 Coronation Street",
    "Site State or County": "Warwickshire",
    "Site State or County": "Warwickshire",
    "Site Country": "United Kingdom",
    "Postcode": "CV34 6DA"
}
```

Response - Success

```
"Transaction ID":"000000912",
   "Transaction Status":"Load Completed",
   "Transaction Type":"Asset",
   "Action Type":"Create"
}
```

Response - Failure

Notification - Failure

Notification - Success

API: Select Asset

Overview

#	Dataflow	Transfer Type	Payload	
3.1	Submit Asset Request	Request		
3.2	Transaction Response	Response	Transaction ID	
3.3	Notification	Request	Asset Transaction JSON file providing: • JSON file with Asset details	

Payload Samples

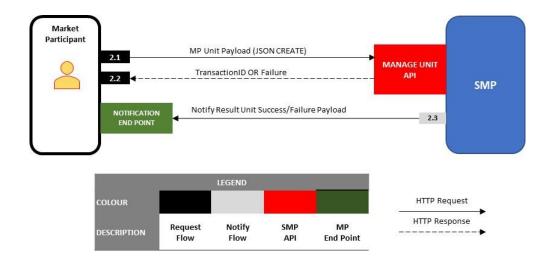
Notification - Success

```
"Transaction Type": "Asset Details"
    "Transaction Status": "Success"
    "Action Type": "Select",
    "Assets":
[
            "Asset Name": "MyAsset01",
            "Asset Type": "Generation Unit",
            "Applicable Market": "Balancing Services",
            "Effective From Date": "2023-09-01",
            "Fuel Type": "Batteries",
            "Generation Capacity MW":200,
            "Connection Type": "Firm",
            "Connected to DNO":true,
            "DNO": "ESB Networks",
            "Connection Point Voltage": "400",
            "Latitude": "-3.584902",
            "Longitude": "51.707079",
            "GSP": "ABHA 1",
            "GSP Group ID": "Eastern England",
            "Nearest Node": "MyNode",
            "Primary Despatch Phone Number": "7554456564",
            "Primary Despatch Phone Country": "United Kingdom",
            "Secondary Despatch Phone Number": "7676567657",
            "Secondary Despatch Phone Country": "United Kingdom",
            "Fax Despatch Phone Number": "4645654643",
            "Fax Despatch Phone Country": "United Kingdom",
            "Operational Metering Availability": "Yes",
            "MPAN Import": "1001010101010",
            "MPAN Export":"1001010101011",
            "Asset Size (MW)":180,
            "Site Contact Name": "Mr Site Contact",
            "Site Contact Number": "6576768768",
            "Site Street Address": "26 Coronation Street",
            "Site City": "Warwick",
            "Site State or County":"Warwickshire",
            "Site Country": "United Kingdom",
            "Postcode": "CV34 6DA",
"Asset Status": "Accepted",
"Asset Id": "AST-7875",
"Asset Owner": "123 Limited",
"Asset Agent": "456 Limited"
        },
 "Asset Name": "MyAsset02",
            "Asset Type": "Generation Unit",
            "Applicable Market": "Balancing Services",
            "Effective From Date": "2023-09-01",
            "Fuel Type": "Batteries",
            "Generation Capacity MW":50,
            "Connection Type": "Firm",
            "Connected to DNO":true,
            "DNO": "ESB Networks",
            "Connection Point Voltage": "400",
            "Latitude": "-3.584902",
            "Longitude": "51.707079",
```

```
"GSP":"ABHA 1",
         "GSP Group ID": "Eastern England",
         "Nearest Node": "MyNode",
         "Primary Despatch Phone Number": "7554456564",
         "Primary Despatch Phone Country": "United Kingdom",
         "Secondary Despatch Phone Number": "7676567657",
         "Secondary Despatch Phone Country": "United Kingdom",
         "Fax Despatch Phone Number": "4645654643",
"Fax Despatch Phone Country": "United Kingdom",
         "Operational Metering Availability": "Yes",
         "MPAN Import": "1001010101010",
         "MPAN Export":"1001010101011",
         "Asset Size (MW)":180,
         "Site Contact Name": "Mr Site Contact",
         "Site Contact Number": "6576768768",
         "Site Street Address": "26 Coronation Street",
         "Site City": "Warwick",
         "Site State or County":"Warwickshire",
"Site Country":"United Kingdom",
         "Postcode": "CV34 6DA",
         "Asset Status": "Accepted",
         "Asset Id": "AST-7875",
         "Asset Owner": "123 Limited",
         "Asset Agent": "456 Limited"
   }
1
```

API: Create Unit

Overview



#	Dataflow	Transfer Type	Payload
2.1	Submit Unit Transaction	Request	JSON Unit Payload
2.2	Transaction Response	Response	One of: • Failed Data Validation • Transaction ID
2.3	Notification	Request	 Unit Transaction JSON file providing: Successful records with SMP Unit ID Unsuccessful records with errors

Specification

Request

The request is a simple JSON payload made up of 2 sections:

Key	Value
<notify block="">,</notify>	Information required for SMP API to notify of transaction completion – see "Model – Notify" for key-value pairs contained in < <i>Notify Block</i> >
"Unit": { <create unit="">,</create>	Section containing information on the Unit to be loaded into SMP.It will consist of one instance <create unit="">. See "Model – Create Unit" for key-value pairs.</create>
"Assets": [<asset id="">.</asset>	"Complementary to this will be an Array of the Asset IDs which refer to the Assets to be included in the unit. This array does not need to

```
<Asset ID>,
...
]
}
```

be provided if the Applicable Market is Demand Flexibility Service as the assets will be created automatically.

Response

{

A successful response is a JSON payload made up of 2 sections

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

Optional Section containing information on the Unit that was to be loaded into SMP.It will consist of one instance *<Unit>*. See "Model – Unit" for key-value pairs.

Complementary to this will be an Array of the Asset IDs which refer to the Assets included in the unit.

Notify

}

After a Create Unit transaction has completed, the resulting notification will consist of a JSON payload made up of 2 sections

}

}

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

Section containing information on the Unit that was to be loaded into SMP.It will consist of one instance *<Unit>*. See "Model – Unit" for key-value pairs.

Complementary to this will be an Array of the Asset IDs which refer to the Assets included in the unit.

Payload Models

Model - Create Unit

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
M	Unit Name	Text(80)			Must be unique
М	Applicable Market	Picklist	Balancing Services	See Appendix Picklist – Unit Markets	
M	Unit Type	Picklist(Multi-Select)	Demand Unit	See Appendix Picklist – Unit Types	If Applicable Market = "Demand Flexibility Service" then must be "Demand Unit"
М	Category	Picklist	Primary BMU	See Appendix Picklist – Categories	If Applicable Market = "Demand Flexibility Service" then must be "Non- BMU"

M	Effective From Date	Date	2025-10-28	YYYY-MM-DD	Must be today or later
М	Fuel Type	Picklist	Batteries	See Appendix Picklist – Fuel Types	If Applicable Market = "Demand Flexibility Service" then must be "Load Response"
0	Generation Capacity	Number(15, 3)	297	XXXXXXXXXXXXXXXXYY	Unit: Mandatory if "Unit Type" = "Generation Unit". Not applicable If Applicable Market = "Demand Flexibility Service"
0	Demand Capacity	Number(15, 3)	228	XXXXXXXXXXXXXXXXYY	Unit: Mandatory if "Unit Type" = "Demand Unit".

					Must be between '1' and '100' if Applicable Market = Demand Flexibility Service
0	Customer Base	Picklist	Domestic	See Appendix Picklist – Customer Base	Only required if Applicable Market ="Demand Flexibility Service"
0	Delivery Method	Text (100)	My Delivery Method		Only required if Applicable Market ="Demand Flexibility Service"
M	Connection Type	Picklist	Flexible	See Appendix Picklist – Connection Type	Not applicable If Applicable Market = "Demand Flexibility Service"
M	Connected to DNO	Picklist	true	See Appendix Picklist – Boolean	If Applicable Market =

					"Demand Flexibility Service" then must be true Mandatory
0	DNO	Picklist	SP Energy Networks	See Appendix Picklist - DNO	if "Connected to DNO" = true
M	Are you a Supplier of Electricity?	Picklist	Yes, No	See Appendix Picklist – Are you a Supplier of Electricity	Only required if Applicable Market ="Demand Flexibility Service"
0	DFS Initiation Measures	Picklist	Manually instructed	See Appendix Picklist – DFS Initiation Measures	Only required if Applicable Market ="Demand Flexibility Service"
0	DFS Unit Type	Picklist	Domestic	See Appendix Picklist – DFS Unit Type	Only required if Applicable Market ="Demand Flexibility Service"

0		Connection Point Voltage	Picklist	400	See Appendix Picklist – Connection Point Voltage	Not applicable If Applicable Market = "Demand Flexibility Service"	Unit: KV Mandatory If Applicable Market = "Balancing Services"
0		Postcode	Text(8)	RG1 2HT		Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"	•
0	Latitude		Number(2,15)		-3.584902	+/- XXX.XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Accepts -90 to +90 Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Longitude		Number(3,15)		51.707079	+/- I	Accepts - 180 to +180 Mandatory If Applicable Market =

					"Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
Ο	Nearest Node	Text(6)	abha		Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	GSP	Picklist (Multi-Select)	ABHA_1	See Appendix Picklist - GSP	Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand

					Flexibility Service"
0	Other GSP	Text(10)	New GSP		Mandatory if "GSP" = "Others"
0	GSP Group	Picklist	Eastern England	See Appendix Picklist – GSP Group	Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Primary Despatch Email Address	Email	hello@email.com		Mandatory if "Applicable Market" = "Demand Flexibility Service"
0	Primary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Primary Despatch Phone Number	Text(10)	7554456564		
M	Secondary Despatch Email Address	Email	hello@email.com		Mandatory if "Applicable

					Flexibility Service"
0	Secondary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Secondary Despatch Phone Number	Text(10)	7676567657		
М	Despatch Fax Number Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
0	Despatch Fax Number	Text(10)	7554456564		

Model - Unit

This Model includes all fields in Model – Create Unit plus the following:

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload.

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
0	Account Name	Text(255)	My Company		
0	Error Message	Long Text		0	Error Message

Model – Transaction

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

ivi/O lag Data Type Example Allowed Values Other Validation Rule	M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
--	-----	-----	-----------	---------	----------------	-----------------------

Market" = "Demand

0	Transaction ID	Text(10)	0000000418		Will be null if payload fails basic validation
М	Transaction Status	Text(10)	Process Completed	See Transaction State Diagram	
М	Transaction Type	Text(10)	Asset	"Asset", "Unit"	
М	Action Type	Text(10)	Create	"Create"	

Payload Samples

Request

```
"Notification Address": "https://api.mycompany.com/SMPNotification",
"Notification Username": "MyUsername",
"Notification Password": "MyPassword",
"Action Type": "Create",
"Unit":
    "Unit Name": "MyUnit-01",
    "Applicable Market": "Balancing Services",
    "Unit Type": "Generation Unit",
    "Category": "Primary BMU",
    "Effective From Date": "2023-03-01",
    "Fuel Type": "Batteries",
    "Generation Capacity":297,
    "Connection Type": "Flexible",
    "Connected to DNO":true,
    "DNO": "Electricity North West",
    "Connection Point Voltage": "400",
    "Postcode": "CV34 6DA",
    "Longitude": "-3.584902",
    "Latitude": "51.707079",
    "Nearest Node": "abha",
    "GSP": "ABHA 1",
    "GSP Group": "Eastern England",
    "Primary Despatch Phone Number": "7554456564",
    "Primary Despatch Phone Number Country": "United Kingdom",
    "Secondary Despatch Phone Number": "7676567657",
    "Secondary Despatch Phone Number Country": "United Kingdom",
    "Despatch Fax Number": "4645654643",
    "Despatch Fax Number Country": "United Kingdom",
    "Assets": [7294652834, "8273624319", "6244855231"]
```

Response - Success

```
"Transaction ID":"0000000843",
   "Transaction Status":"Load Completed",
   "Transaction Type":"Unit",
   "Action Type":"Create"
}
```

Response - Failure

```
}
}
```

Notification - Failure

```
"Transaction ID": "0000063923",
    "Transaction Status": "Process Error",
    "Transaction Type":"Unit",
    "Action Type": "Create",
    "Unit":
        "Unit Name": "MyUnit-01",
        "Unit ID": "ABCD-03",
        "Error Message": "Postcode: Missing Mandatory Field"
        "Account Name": "MyAccount",
        "Applicable Market": "Balancing Services",
        "Category": "Primary BMU",
        "Unit Type": "Generation Unit",
        "Effective From Date": "2023-03-01",
        "Fuel Type": "Batteries",
        "Generation Capacity":297,
        "Connection Type": "Flexible",
        "Connected to DNO": True,
        "DNO": "Electricity North West",
        "Connection Point Voltage": "400",
        "Postcode":"",
        "Longitude": "-3.584902",
        "Latitude": "51.707079",
        "Nearest Node": "abha",
        "GSP": "ABHA 1",
        "GSP Group Id": "Eastern England",
        "Primary Despatch Phone Number": "7554456564",
        "Primary Despatch Phone Number Country": "United Kingdom",
        "Secondary Despatch Phone Number": 7676567657,
        "Secondary Despatch Phone Number Country": "United Kingdom",
        "Despatch Fax Number": 4645654643,
        "Despatch Fax Number Country": "United Kingdom",
        "Assets": [7294652834,8273624319,6244855231]
    }
}
```

Notification - Success

```
"Connection Type":"Flexible",
"Connected to DNO":True,
"DNO": "Electricity North West",
"Connection Point Voltage": "400",
"Post Code": "CV34 6DA",
"Longitude": "-3.584902",
"Latitude": "51.707079",
"Nearest Node": "abha",
"GSP":"ABHA 1",
"GSP Group Id": "Eastern England",
"Primary Despatch Phone Number": 7554456564,
"Primary Despatch Phone Number Country": "United Kingdom",
"Secondary Despatch Phone Number":7676567657,
"Secondary Despatch Phone Number Country":"United Kingdom",
"Despatch Fax Number":4645654643,
"Despatch Fax Number Country": "United Kingdom",
"Assets": [7294652834,8273624319,6244855231]
```

API: Select Unit

Overview

#	Dataflow	Transfer Type	Payload	
3.1	Submit Unit Request	Request		
3.2	Transaction Response	Response	•	Transaction ID
3.3	Notification	Request	Asset Transaction JSON file providing: • JSON file with Unit detail	

Payload Samples

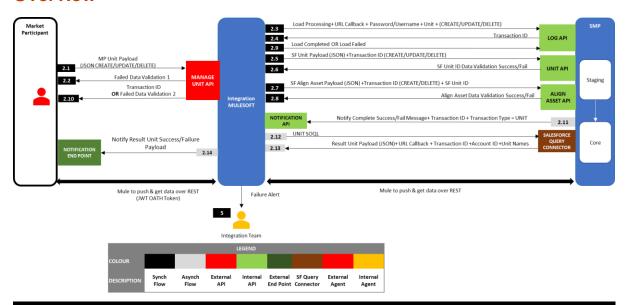
Notification - Success

```
"Effective From Date": "2023-03-01",
"Fuel Type": "Batteries",
"Generation Capacity":297,
"Connection Type": "Flexible",
"Connected to DNO":True,
"DNO": "Electricity North West",
"Connection Point Voltage": "400",
"Postcode":"",
"Longitude": "-3.584902",
"Latitude": "51.707079",
"Nearest Node": "abha",
"GSP":"ABHA 1",
"GSP Group Id": "Eastern England",
"Primary Despatch Phone Number": "7554456564",
"Primary Despatch Phone Number Country": "United Kingdom",
"Secondary Despatch Phone Number": 7676567657,
"Secondary Despatch Phone Number Country": "United Kingdom",
"Despatch Fax Number": 4645654643,
"Despatch Fax Number Country": "United Kingdom",
"Assets": [7294652834,8273624319,6244855231],
"Are you a Supplier of Electricity?": "",
"DFS Initiation Measures": "",
"DFS Unit Type": "",
"Unit Status": "Accepted"
"Unit Name": "MyUnit-02",
"Unit Key":" 23000000000111",
"Account Name": "MyAccount",
"Applicable Market": "Demand Flexibility Service",
"Category": "Primary BMU",
"Unit Type": "Generation Unit",
"Effective From Date": "2023-03-01",
"Fuel Type": "Batteries",
"Generation Capacity":297,
"Connection Type": "Flexible",
"Connected to DNO":True,
"DNO": "Electricity North West",
"Connection Point Voltage": "400",
"Postcode":"",
"Longitude": "-3.584902",
"Latitude": "51.707079",
"Nearest Node": "abha",
"GSP": "ABHA 1",
"GSP Group Id": "Eastern England",
"Primary Despatch Phone Number": "7554456564",
"Primary Despatch Phone Number Country": "United Kingdom",
"Secondary Despatch Phone Number": 7676567657,
"Secondary Despatch Phone Number Country": "United Kingdom",
"Despatch Fax Number": 4645654643,
"Despatch Fax Number Country": "United Kingdom",
"Assets": [7294652834,8273624319,6244855231],
"Are you a Supplier of Electricity?": "Yes",
"DFS Initiation Measures": "Manually Instructed",
"DFS Unit Type": "Domestic",
 "Unit Status": "Draft"
```

}

API: Update Unit

Overview



#	Dataflow	Transfer Type	Payload
2.1	Submit Unit Transaction	Request	JSON Unit Payload
2.2	Transaction Response	Response	One of: Failed Data ValidationTransaction ID
2.13	3 Notification	Request	Unit Transaction JSON file providing: • Successful records with SMP Unit ID
			 Unsuccessful records with errors

Specification

Request

The request is a simple JSON payload made up of 2 sections:

Key	Value
<notify block="">,</notify>	Information required for SMP API to notify of transaction completion – see "Model – Notify" for key-value pairs contained in <i><notify block=""></notify></i>
"Unit": { <update unit="">,</update>	Section containing information on the Unit to be loaded into SMP.It will consist of one instance <update unit="">. See "Model – Update Unit" for key-value pairs. The 'Unit Key' value must refer to the Unit</update>

that the user wishes to update. This value can be obtained using the 'Select Unit' API.

Complementary to this will be an Array of the Asset IDs which refer to the Assets to be included in the unit. All Asset IDs the user wants to be aligned to the unit must be included i.e. including assets that are currently aligned. These values can be obtained using the 'Select Asset' API.

Response

A successful response is a JSON payload made up of 2 sections

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

Optional Section containing information on the Unit that was to be updated into SMP. It will consist of one instance *<Unit>*. See "Model – Unit" for key-value pairs.

Complementary to this will be an Array of the Asset IDs which refer to the Assets included in the unit.

Notify

}

}

After a UpdateUnit transaction has completed, the resulting notification will consist of a JSON payload made up of 2 sections

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

Section containing information on the Unit that was to be updated into SMP.lt will consist of one instance <*Unit*>. See "Model – Unit" for key-value pairs.

Complementary to this will be an Array of the Asset IDs which refer to the Assets included in the unit.

Payload Models

Model – Update Unit

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
M	Unit Key	Number(15,0)	23000000000110		Must be associated with a Unit owned by the User's account
M	Unit Status	Picklist	Draft	Draft, Submitted	If 'Submitted' is selected the Unit will be locked for editing prior to Approval by the NGESO Registration team
M	Assets	Array	0000106116	Comma Separated Values	Must be associated with the User's account
М	Unit Type	Picklist(Multi-Select)	Demand Unit	See Appendix Picklist – Unit Types	If Applicable Market = "Demand Flexibility Service" then must be "Demand Unit"
М	Category	Picklist	Primary BMU	See Appendix Picklist – Categories	If Applicable Market = "Demand Flexibility Service" then must be "Non-BMU"
М	Effective From Date	Date	2025-10-28	YYYY-MM-DD	Must be today or later
М	Fuel Type	Picklist	Batteries	See Appendix Picklist – Fuel Types	If Applicable Market = "Demand Flexibility Service" then must be "Load Response"
0	Other Fuel Type	Text(255)	My Fuel Type		Mandatory if Fuel Type = Other
0	Generation Capacity	Number(15, 3)	297	XXXXXXXXXXXXXXXYY	Unit: Mandatory if "Unit Type" = "Generation Unit".

					Not applicable If Applicable Market = "Demand Flexibility Service"
0	Demand Capacity	Number(15, 3)	228	XXXXXXXXXXXXXXXYY	Unit: Mandatory if "Unit Type" = "Demand Unit".
	Demand capacity	rumber(15, 5)	220	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Must be between '1' and '100' if Applicable Market = Demand Flexibility Service
0	Customer Base	Picklist	Domestic	See Appendix Picklist – Customer Base	Only required if Applicable Market ="Demand Flexibility Service"
0	Delivery Method	Text (100)	My Delivery Method		Only required if Applicable Market ="Demand Flexibility Service"
М	Connection Type	Picklist	Flexible	See Appendix Picklist – Connection Type	Not applicable If Applicable Market = "Demand Flexibility Service"
M	Connected to DNO	Picklist	true	See Appendix Picklist – Boolean	If Applicable Market = "Demand Flexibility Service" then must be true
0	DNO	Picklist	SP Energy Networks	See Appendix Picklist - DNO	Mandatory if "Connected to DNO" = true
M	Supplier of Electricity	Picklist	Yes, No	See Appendix Picklist – Are you a Supplier of Electricity	Only required if Applicable Market ="Demand Flexibility Service"
0	Connection Point Voltage	Picklist	400	See Appendix Picklist – Connection Point Voltage	Unit: KV Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"

0	Other Connection Point Voltage	Number(16, 2)	100	XXXXXXXXXXXXXXXYY	Unit: KV Mandatory if "Connection Point Voltage" = "Other"
0	Postcode	Text(8)	RG1 2HT		Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Latitude	Number(2,15)	-3.584902	+/- XXX.XXXXXXXXXXXXXXXXX	Accepts -90 to +90 Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Longitude	Number(3,15)	51.707079	+/- XX.XXXXXXXXXXXXXXXX	Accepts -180 to +180 Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Nearest Node	Text(6)	abha		Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	GSP	Picklist (Multi-Select)	ABHA_1	See Appendix Picklist - GSP	Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Other GSP	Text(10)	New GSP		Mandatory if "GSP" = "Others"

0	GSP Group	Picklist	Eastern England	See Appendix Picklist – GSP Group	Mandatory If Applicable Market = "Balancing Services" Not applicable If Applicable Market = "Demand Flexibility Service"
0	Primary Despatch Email Address	Email	hello@email.com		Mandatory if "Applicable Market" = "Demand Flexibility Service"
М	Primary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Primary Despatch Phone Number	Text(10)	7554456564		
0	Secondary Despatch Email Address	Email	hello@email.com		Mandatory if "Applicable Market" = "Demand Flexibility Service"
М	Secondary Despatch Phone Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
М	Secondary Despatch Phone Number	Text(10)	7676567657		
0	Despatch Fax Number Country	Picklist	United Kingdom	See Appendix - Picklist Country (Telephone)	
0	Despatch Fax Number	Text(10)	7554456564		

Model - Unit

This Model includes all fields in Model – Update Unit plus the following:

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload.

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
0	Account Name	Text(255)	My Company		
0	Error Message	Long Text		0	Error Message

Model – Transaction

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
0	Transaction ID	Text(10)	000000418		Will be null if payload fails basic validation
М	Transaction Status	Text(10)	Process Completed	See Transaction State Diagram	
М	Transaction Type	Text(10)	Unit	"Unit"	
М	Action Type	Text(10)	Update	"Unit	

Payload Samples

Request

```
"Notification Address": "https://api.mycompany.com/SMPNotification",
    "Notification Username": "MyUsername",
    "Notification Password": "MyPassword",
    "Action Type": "Updatee",
    "Units":
"Assets": [
              "0000106116"
            "Unit Key": 23000000000110,
            "Unit Status": "Draft",
            "Unit Type": "Generation Unit; Demand Unit",
            "Effective From Date": "2024-06-19",
            "Fuel Type": "Batteries",
            "Other Fuel Type": "ABC",
            "Generation Capacity": 297,
            "Demand Capacity": 200,
            "Customer Base": "Domestic",
            "Delivery Method": "Manually instructed",
            "Connection Type": "Flexible",
            "Connected to DNO": true,
            "DNO": "Electricity North West",
            "Connection Point Voltage": "Other",
            "Other Connection Point Voltage": 40.2,
            "Postcode": "RG1 7QE",
            "Longitude": "-3.584902",
            "Latitude": "51.707079",
            "Nearest Node": "abha",
            "GSP": "ABHA_1",
            "Other GSP": "",
            "GSP Group": "Eastern England",
            "Primary Despatch Email Address": "Contact1@xyztestenergy.co.uk",
            "Primary Despatch Phone Country": "United Kingdom",
            "Primary Despatch Phone Number": "7554456564",
            "Secondary Despatch Email Address": "Contact2@xyztestenergy.co.uk",
            "Secondary Despatch Phone Country": "United Kingdom",
            "Secondary Despatch Phone Number": "7676567657",
            "Despatch Fax Number Country": "United Kingdom",
            "Despatch Fax Number": "4645654643",
            "Category": "Primary BMU",
"Supplier of Electricity": "Yes"
   ]
```

Response - Success

```
"Transaction ID":"0000000843",
   "Transaction Status":"Load Completed",

"Action Type":"Update"
}
```

Response - Failure

Notification - Failure

```
"Transaction ID": "0000063923",
    "Transaction Status": "Process Error",
    "Action Type": "Update",
    "Unit":
"Assets": [
                  "0000106116"
              "Unit Key": 23000000000110,
"Error Message": "Postcode: Missing Mandatory Field" ,
              "Unit Status": "Draft",
"Unit Type": "Generation Unit; Demand Unit",
              "Effective From Date": "2024-06-19",
              "Fuel Type": "Batteries",
              "Other Fuel Type": "ABC",
              "Generation Capacity": 297,
              "Demand Capacity": 200,
"Customer Base": "Domestic",
              "Delivery Method": "Manually instructed",
              "Connection Type": "Flexible",
              "Connected to DNO": true,
              "DNO": "Electricity North West",
              "Connection Point Voltage": "Other",
              "Other Connection Point Voltage": 40.2,
              "Postcode": "RG1 70E",
              "Longitude": "-3.584902",
              "Latitude": "51.707079",
              "Nearest Node": "abha",
              "GSP": "ABHA_1",
              "Other GSP": "",
              "GSP Group": "Eastern England",
              "Primary Despatch Email Address": "Contact1@xyztestenergy.co.uk",
              "Primary Despatch Phone Country": "United Kingdom", "Primary Despatch Phone Number": "7554456564",
              "Secondary Despatch Email Address": "Contact2@xyztestenergy.co.uk",
              "Secondary Despatch Phone Country": "United Kingdom", "Secondary Despatch Phone Number": "7676567657",
              "Despatch Fax Number Country": "United Kingdom",
              "Despatch Fax Number": "4645654643", "Category": "Primary BMU",
              "Supplier of Electricity": "Yes"
```

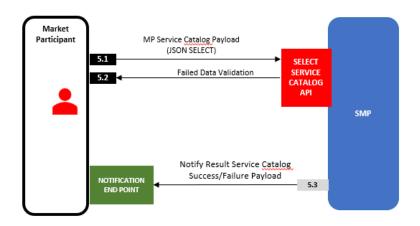
```
}
```

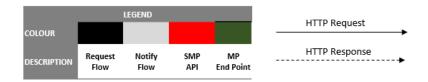
Notification - Success

```
"Transaction ID":"0000029643",
"Transaction Status": "Process Completed",
"Action Type": "Update",
"Unit":
       "Unit Name": "MyUnit-01",
       "Unit ID": "ABCD-03",
       "Account Name": "MyAccount",
       "Applicable Market": "Balancing Services",
       "Unit Type": "Generation Unit",
       "Effective From Date": "2023-03-01",
       "Fuel Type": "Batteries",
       "Generation Capacity":297,
       "Connection Type": "Flexible",
       "Connected to DNO":True,
       "DNO": "Electricity North West",
       "Connection Point Voltage":"400",
       "Post Code": "CV34 6DA",
       "Longitude":"-3.584902",
       "Latitude": "51.707079",
       "Nearest Node": "abha",
       "GSP":"ABHA 1",
       "GSP Group Id": "Eastern England",
       "Primary Despatch Phone Number":7554456564,
       "Primary Despatch Phone Number Country": "United Kingdom",
       "Secondary Despatch Phone Number": 7676567657,
       "Secondary Despatch Phone Number Country": "United Kingdom",
       "Despatch Fax Number":4645654643,
       "Despatch Fax Number Country": "United Kingdom",
       "Assets": [7294652834,8273624319,6244855231]
```

API: Select Service Catalog

Overview





#	Dataflow	Transfer Type	Payload
5.1	Submit Service Catalog Request	Request	
5.2	Transaction Response	Response	Transaction ID
5.3	Notification	Request	Service Catalog Transaction JSON file providing: • JSON file with Service Catalog details

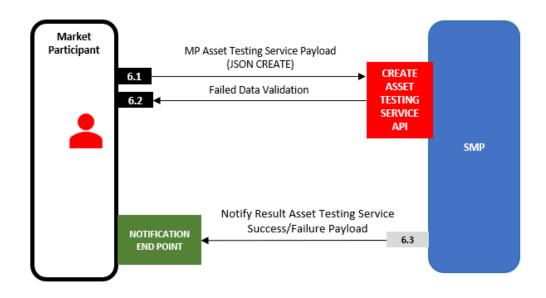
Payload Samples

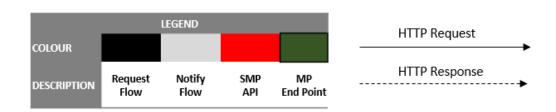
Notification - Success

```
{
    "Transaction Type": "Service Catalog"
    "Transaction Status": "Success"
```

API: Create Asset Testing Service

Overview





#	Dataflow	Transfer Type	Payload
6.1	Submit Asset Testing Service Transaction	ce Request	JSON Asset Payload
			One of:
6.2	Transaction Response	Response	 Failed Data Validation
			 Transaction ID
			Asset Testing Service Transaction JSON file
			providing:
6.3	Notification	Request	 Successful records with SMP
0.5	NOTHICATION	Request	Asset Testing Service ID
			 Unsuccessful records with
			errors

Specification Request

The request is a simple JSON payload made up of 2 sections:

Value

{ <Notify Block>, "Asset Testing Services": [{<Create Asset Testing Service>}, {<Create Asset Testing Service >}]

Information required for SMP API to notify of transaction completion – see "Model – Notify" for key-value pairs contained in <*Notify Block>* Section containing information on the Assets to be loaded into SMP.It will consist of one or more instance of <Create Asset Testing Service >. See "Model – Create Asset Testing Service" for key-value pairs.

Response

}

A successful response is a JSON payload made up of 2 sections

<Transaction Block>,

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>*

"Asset Testing Services": [{ <Asset Testing Service Block>}, { <Asset Testing Service Block>}] }

Optional Section containing information on the Asset Testing Services to be loaded into SMP.It will consist of one or more instance of <Asset Testing Service Block>. See "Model – Create Asset" for key-value pairs.

Notify

After a Create Asset Testing Service transaction has completed, the resulting notification will consist of a JSON payload made up of 2 sections

```
<Transaction Block>,

"Asset Testing
Services":
    [
          {<Asset Testing}
Service Block>},
          {<Asset Testing}
Service Block>}
    ]
}
```

Information to notify of transaction information – see "Model – Transaction" for key-value pairs contained in *<Transaction Block>* Section containing information on the Asset Testing Services to be loaded into SMP.It will consist of one or more instance of *<*Asset Testing Service Block>. See "Model – Asset" for key-value pairs.

Payload Models Model - Notify

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example		Allowed Values / Pattern	Other Validation Rule
М	Notification Address	Text(255)	https://api.myd	co.com/SMPNotify/		

0	Notification Username	Text(255)	MyUsername
0	Notification Password	Text(255)	MyPassword

Model – Create Asset Testing Service

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values / Pattern	Other Validation Rule
М	Asset Id	Text(10)	7294652834		
M	Date Approved by ITE	Date	23/06/2022	DD/MM/YYYY	
М	Service Name	Picklist (Multi- Select)	Generation Unit	See Appendix Picklist – Unit Types	
M	Tested Capacity	Picklist	Balancing Services	See Appendix Picklist – Asset Markets	

Model – Transaction

INDEX: M/O specifies if it is Mandatory or Optional to provide value in the Payload

M/O	Tag	Data Type	Example	Allowed Values	Other Validation Rule
0	Transaction ID	Text(10)	0000000418		Will be null if payload fails basic validation
М	Transaction Status	Text(10)	Process Completed	See Transaction State Diagram	
М	Transaction Type	Text(10)	Asset Testing Service	"Asset", "Unit", "Asset Testing Service"	t
M	Action Type	Text(10)	Create	"Create"	

Payload Samples

Request

```
"Notification Address":"https://api.mycompany.com/SMPNotification",
"Notification Username":"MyUsername",
"Notification Password":"MyPassword",
"Action Type":"Create",
"Asset Testing Service": [{
    "Asset ID": "0000101618",
```

```
"Tested Capacity": "5",
        "Date Approved by ITE": "2023-05-10",
        "Service Name": "Dynamic Containment LF"
  } , {
        "Asset ID": "0000101619",
        "Tested Capacity": "90",
        "Date Approved by ITE": "2023-03-01",
"Service Name": "Dynamic Moderation LF"
        "Asset ID": "0000101638",
        "Tested Capacity": "50",
        "Date Approved by ITE": "2023-01-30",
        "Service Name": "Dynamic Regulation HF"
  } ]
Response - Success
  "Transaction ID": "0000000912",
  "Transaction Status": "Load Completed",
  "Transaction Type": "Asset Testing Service",
  "Action Type": "Create"
Response - Failure
    "Transaction ID": "0000000418",
    "Transaction Status": "Load Failed",
    "Transaction Type": "Asset Testing Servoce",
    "Action Type": "Create",
    "Asset Testing Service":[
             "Asset ID": "0000101618",
             "Service Name": "Dynamic Containment LF",
             "Error Message": "Service Name: Missing Mandatory Field"
        },
             "Asset ID": "0000101619",
             "Service Name": "Dynamic Moderation LF"
             "Error Message": "Service Name: Missing Mandatory Field"
```

Notification - Failure

Notification - Success

Appendix A: Picklist Tables

Boolean

Allowed Values

true, false

Operational Metering Availability

Allowed Values

Yes, No

Asset Markets

Allowed Values

Balancing Services, RDP MW Dispatch

Unit Markets

Allowed Values

Balancing Services, Demand Flexibility Service

Unit Types

Allowed Values

Generation Unit, Demand Unit

Customer Base

Allowed Values

Domestic, I & C (Microbusiness), Both, Other

Fuel Type

Allowed Values

Batteries, Batteries, Biomass, BM (SVA/VLP/Battery), CCGT, Coal, Diesel, DSF: Distributed generation (export), DSF: Distributed generation (on-site),

DSF: Storage (export), DSF: Storage (on-site), Gas Reciprocating Engines,

Interconnector, Load Response, Multi Fuel type, Non-Pump Storage Hydro, Nuclear, OCGT, Pump Storage, Solar, Wind, Other

Categories

Allowed Values

Primary BMU, Secondary BMU, Additional Supplier BMU, Non-BMU

DFS Unit Type

Allowed Values

Domestic, Industrial and Commercial, Hybrid

DFS Initiation Measures

Allowed Values

Manually instructed, Directly instructable, Both

Are you a Supplier of Electricity

Allowed Values

Yes, No

Connection Type

Allowed Values

Firm, Flexible

Connection Method

Allowed Values

Distribution, Private Lines, Transmission

DNO

Allowed Values

Electricity North West, ESB Networks, Northern Ireland Electricity Networks, Northern Powergrid, SP Energy Networks, Scottish and Southern Electricity Networks, UK Power Networks, National Grid Electricity Distribution

Connection Point Voltage

Allowed Values

400, 275, 132, 33, 11, 6.6, 3.3, Other

GSP

Allowed Values

ABHA_1, ABNE_3, ABTH_1, ALDW_31, ALDW_32, ALNE_3, ALVE_1, AMEM 1, ARBR 3, ARMO 3, AXMI 1, AYRR 3, BAGA 3, BAIN 3, BARK_3, BEAU_3, BEDD_1, BERW_3, BESW_1, BICF_1, BIRK_1, BISW_1, BLYT_6, BOAG_3, BOLN_1, BONN_3, BOTW_1, BPGR_3, BRAC_3, BRAI_1, BRAP_3, BRAW_1, BRED_1, BRFO_1, BRID_3, BRIM_1, BRK1_1, BRL1 1, BRL3 1, BRLE 2, BROA 3, BROR 3, BROX 3, BRWA 1, BUMU_3, BURW_1, BUSH_1, BUST_1, CAAD_3, CAML_6, CANT_1, CAPE_1, CAR1_1, CARE_1, CARR_12, CASK_3, CASS_3, CATY_3, CEAN_5, CELL_1, CHAP_3, CHAR_3, CHAS_3, CHIC_1, CHS2_1, CHS3_1, CHTE_1, CITR_1, CLAC_5, CLAY_3, CLYM_3, COAT_3, COCK_3, COUA_3, COVE_1, COWL_1, COYL_3, CRAI_3, CREB_1, CROO_3, CULJ_3, CUMB_3, CUPA_3, CURR_5, DEES_1, DEVM_3, DEVO_3, DEWP_3, DOUN_3, DRAK_1, DRAX_1, DRCR_3, DRUM_3, DUBE_3, DUDH_3, DUGR_3, DUMF_3, DUMF_5, DUNB_3, DUNF_3, DUNO_3, DYCE_3, EALI_6, EASO_1, ECCL_3, ECLA_1, EERH_3, EKIL_3, EKIS_3, ELDE_3, ELGI_3, ELLA_1, ELS2_1, ELSA_1, ENDE_1, ERSK_3, EXET_1, FASN_3, FAUG_3, FAWL_1, FECK_6, FERB_1, FERB_6, FIDD_3, FIDF_1, FLEE_1, FRAS_3, FROD_1, FWIL_3, GALA_3, GIFF_3, GLAG_3, GLLU_3, GLNI_3, GLOU_1, GLRO_3, GORG_3, GOVA_3, GRAN_6, GREN_1, GRIW_1, GRMO_3, GRTO_6, GRUB_3, HACK_6, HAGR_3, HAR1_1, HARK_13, HARM_6, HAWI_3, HAWP_6, HCK1_1, HELE_3, HEYS 1, HUNF 3, HURS 1, HUTT 1, IMPP 3, INCE 1, INDQ 1, INKE 3, INNE_3, IROA_1, IRON_1, IVER_1, IVER_6, JOHN_3, JORD_3, KAIM_3, KEAD_1, KEAR_1, KEAR_3, KEIT_3, KEM1_1, KIBY_1, KIER_3, KIIN_3, KILB_3, KILB_5, KILO_3, KILS_3, KILT_3, KILW_3, KINO_1, KINT_3, KIRK 1, KITW 1, LACK 6, LAIR 3, LALE 1, LAND 1, LEGA 1, LEMR 1, LEVE_3, LING_3, LINM_3, LINT_6, LISD_1, LITT_1, LODR_6, LOVE_1, LUNA_3, LYND_3, MACC_2, MACD_3, MANN_1, MAYB_3, MEAD_1, MELK_1, MILC_3, MILH_1, MITY_1, MOSW_3, MYBS_3, NAIR_3, NEAR_3, NECH 11, NECH 12, NEEP 3, NETS 3, NEW1 1, NEWX 6, NFLE 1, NHYD_6, NINF_1, NORL_3, NORT_2, NORW_1, NURS_1, OCKH_1, OFFE_3, OLDB_1, OSBA_1, PADI_1, PAIS_3, PART_3, PEHG_3, PEHS_5, PELH_1, PEMB_1, PENE_1, PENN_1, PENT_1, PENW_1, PERS_3,

PITS_31, PITS_32, POOB_3, POPP_3, PORA_3, PORD_3, PYLE_1, RAIN_1, RANN_3, RASS_1, RATS_1, RAVE_3, RAYL_1, REBR_3, REDH_3, REDM_3,RICH_1, ROCH_1, ROCK_1, RUGE_1, RYEH_1, SACO_3, SALH_1, SANX_3, SEAB_1, SEL1_1, SELL_1, SFEG_5, SFEM_5, SFIL_3, SHEC_3, SHEE11, SHIN_5, SHRE_1, SHRU_3, SIGH_3, SJOW_1, SKLG_1, SLOY_5, SMAN_1, SPAV_3, SPEN_1, SSHI_3, STAH_1, STAL_1, STAY_1, STEW_1, STHA_3, STIR_3, STLE_3, STMO_1, STOB_1, STRI_3, SUND_1, SWAN_1, SYD1_1, TARL_3, TAUN_1, TAYN_3, TELR_3, TEMP_3, THOM_6, THSO_3, THUR_6, TILB_11, TILB_12, TINP_31, TINP_32, TODP_6, TONG_5, TOTT_1, TRAW_1, TREM_3, TUMB_3, TYNE_1, TYNE_5, UPPB_1, UPPB_3, USKM_1, USKM_3, WALP_1, WARL_1, WASF_1, WATS_1, WBOL_6, WBUR_1, WFIE_3, WGEO_3, WHAM_1, WHGA_1, WHHO_3, WHSO_2, WHTL_3, WIBA_3, WIEN_1, WILL_1, WILT_6, WIM2_1, WIMB_11, WIOW_3, WISD_1, WISD_6, WISH_3, WMEL_1, WOHI_3, WTHU_3, WWEY_1, WYLF_1, WYMO_1, Others

GSP Group

Allowed Values

Eastern England, East Midlands, London, Merseyside and Northern Wales, West Midlands, North Eastern England, North Western England, Northern Scotland, Southern Scotland, South Eastern England, Southern England, Southern Wales, South Western England, Yorkshire

Country (Telephone)

Allowed Values

United Kingdom, Afghanistan, Albania, Algeria, American Samoa, Andorra, Angola, Anguilla, Antarctica, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, British Indian Ocean Territory, British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Cayman Islands, Central African Republic, Chad, Chile, China, Christmas Island, Cocos Islands, Colombia, Comoros, Cook Islands, Costa Rica, Croatia, Cuba, Curacao, Cyprus, Czech Republic, Democratic Republic of the Congo, Denmark, Djibouti, Dominica, Dominican Republic (+1809), Dominican Republic (+1829), Dominican Republic (+1849), East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Falkland Islands, Faroe Islands, Fiji, Finland, France, French Polynesia, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Greenland, Grenada, Guam, Guatemala, Guernsey, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Isle of Man, Israel, Italy, Ivory Coast, Jamaica, Japan,

Jersey, Jordan, Kazakhstan, Kenya, Kiribati, Kosovo, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Libya, Liechtenstein, Lithuania, Luxembourg, Macao, Macedonia, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Marshall Islands, Mauritania, Mauritius, Mayotte, Mexico, Micronesia, Moldova, Monaco, Mongolia, Montenegro, Montserrat, Morocco, Mozambique, Myanmar, Namibia, Nauru, Nepal, Netherlands, Netherlands Antilles, New Caledonia, New Zealand, Nicaragua, Niger, Nigeria, Niue, North Korea, Northern Mariana Islands, Norway, Oman, Pakistan, Palau, Palestine, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Pitcairn, Poland, Portugal, Puerto Rico (+1787), Puerto Rico (+1939), Qatar, Republic of the Congo, Reunion, Romania, Russia, Rwanda, Saint Barthelemy, Saint Helena, Saint Kitts and Nevis, Saint Lucia, Saint Martin, Saint Pierre and Miquelon, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, Sint Maarten, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, South Korea, South Sudan, Spain, Sri Lanka, Sudan, Suriname, Svalbard and Jan Mayen, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tokelau, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks and Caicos Islands, Tuvalu, U.S. Virgin Islands, Uganda, Ukraine, United Arab Emirates, United States, Uzbekistan, Vanuatu, Vatican, Venezuela, Vietnam, Wallis and Futuna, Western Sahara, Yemen, Zambia, Zimbabwe

Appendix B: General Errors

When errors are encountered in an API request, a technical error payload will be sent. The table below includes the list of error codes, descriptions and details which can be received.

HTTPS Error Code	Issue	Details
401 Unauthorized	Invalid token	 The token has failed validation. This may be for one of the following reasons: Token was not generated by National Grid ESO Token has been modified so the signature fails validation Token has expired Token is incomplete
400 Bad Request	Invalid Grant	The token provided does not have a valid grant for this application. This may be because you haven't been granted access privileges for this API. Or Username or password Incorrect
400 Bad Request	Bad Request	 If there is issue with the Payload, e.g. Mandatory fields are missing or wrong, e.g. Invalid datatype Parameter has invalid length/format
404 Not Found	Not Found	Wrong URL used
500 Internal Server Error	Internal Server Error	An unknown error has occurred within the API Endpoint. If this recurs, please contact support

Appendix C: Version History

Version	Date	Scope of Change
1.00	25 th Nov 2022	First External Release
1.00a	1 st Dec 2022	Update to Diagram Keys
1.01	6 th Jan 2023	Minor updates
1.01a	24 th Jan 2023	Updates to Data Models and Payload Samples
1.02	20 th Jun 2023	New APIs for Select Service Catalog and Create Asset Testing Services