Public

Demand Flexibility Service (DFS)

API Schema V1.6

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NESO
National Energy System Operator

Contents

1. What's New or Updated in DFS 4.0

The following updates have been introduced in DFS 4.0. This section summarises additions and changes to assist participants in identifying what has evolved since the previous release.

- **New APIs**
    - Consolidated MPAN Forecast
    - Participant Exclusion Report
- **Updated APIs**
  (Enhancements include additional parameters and schema updates)
    - Unit Meter Point Schedule Submission
    - Bid Submission
    - Weekly Settlement Submission
    - MPAN Portfolio
    - Bid Results
    - Summarised Settlement Report
    - ABSVD Domestic & Non-Domestic Reports
- **Updated Authentication Method**

To align with industry standards and strengthen security, DFS 4.0 introduces an updated authentication approach:

Previous method: Username + Password

New method in DFS 4.0: Client Credentials (OAuth 2.0)

This change improves security and aligns with NESO's wider API identity management strategy. Authentication will now be performed using

- Client ID
- Client Secret
- Token endpoint issued by NESO

Full implementation details are provided in the **section 3 and 4** of this document.

2. Introduction

Following the launch of the Demand Flexibility Service (DFS) in winter 2022/23, NESO gathered extensive feedback through industry engagement and co-creation activities. Participants consistently expressed a desire for greater automation across key data-sharing processes.

In response, DFS introduced enhanced automation capabilities, enabling providers to submit all DFS data via an API interface in addition to the existing SharePoint submission route. With DFS 3.0, this was further extended to include data retrieval options from NESO back to providers.

From April 2026, DFS 4.0 will introduce a new set of APIs designed to support additional data requirements and further streamline the exchange of operational information.

This document provides DFS Providers with the full technical specification and schema definitions for the DFS APIs, covering:

- Data submissions from DFS Providers to NESO, and
- Data retrieval from NESO to DFS Providers.

Data Submission APIs (POST APIs) - Providers to NESO:

- Unit Meter Point Schedule submission to NESO
- Bid Submission to NESO
- Weekly Settlement Submission to NESO
- Consolidated MPAN Forecast to NESO - *NEW*

Data Retrieval APIs (GET APIs) – NESO to Providers:

- MPAN Portfolio from NESO
- Bid Results from NESO
- Summarised Settlement Report from NESO
- Summarised ABSVD Domestic Report from NESO
- Summarised ABSVD Non-Domestic Report from NESO
- Participant Exclusion Report from NESO– *NEW*

3. API Onboarding Process

As part of the onboarding process, participants will provide the details such as *Provider name, email address, contact number, DFS registered units and zones* through Single Market Platform and the DFS Contracts team.

Once onboarding is complete, the DFS Support team will create the required client application for each participant in both the Sandbox and Production environments. This client application will generate the necessary client credentials, including the *client_id, client_secret, scope, grant_type (client_credentials),* and the token endpoint used to obtain a bearer token.

The DFS Support team will also share the relevant API endpoint URLs for Sandbox and Production, covering both DFS data submissions and data retrievals. All credentials and URLs will be provided to the participant's registered email address.

Participants must use the token endpoint to obtain a bearer token and include it in the Authorization header of every API request, with data submitted in the request body according to the schema definitions in this document.

4. Obtaining an Authentication Token

The APIs referenced in the *Introduction* covering both DFS data submissions and data retrievals can only be accessed by authorised participants. As part of the authentication process, participants must obtain an OAuth 2.0 bearer token from Microsoft and include this token in the Authorization header of all API requests.

To request a token, participants should call the Microsoft identity token endpoint shown below. The updated URL, including the specific tenant ID, will be issued once onboarding is complete.

```
POST https://login.microsoftonline.com/<tenantID>/oauth2/v2.0/token

REQUEST PARAMETERS:

client_id: <your_client_id>
client_secret: <your_client_secret>
grant_type: client_credentials
scope: api://<xxxx>/.default
```

These values form the client credentials used to obtain a bearer token for all DFS API interactions. All parameters will be provided to participants as part of the onboarding process.

This call, if successful, returns a Bearer Token, which must be included in subsequent API requests.

Note: All API endpoint URLs will be shared as part of the onboarding process. API data should be placed in the body of the request, and the authentication token (Bearer Token) must be included in the Authorization header.

5. API payload size and Pagination for all the DFS APIs

API Payload Size

IMPORTANT

1. Participants are required to split large datasets particularly for Unit Meter Point Schedule Submissions (MPAN) and DFS Weekly Settlements into smaller batches. A single API call must not exceed **5,000** records for all POST APIs, and similarly, NESO will return no more than 5,000 records per call for all GET APIs.
2. Participants may send multiple batches at any frequency, provided each batch contains no more than 5,000 records.

Example: - If a participant needs to submit 100k records for a given day the data must be split into batches of up to 5,000 records per API call. This results in 20 API calls (100k/5000).

The API rate limit is **30 calls per minute.**

Concept of Pagination

Pagination applies to GET APIs that may return a large volume of data. It will be used for the following APIs:

- DFS MPAN Portfolio API
- DFS Summarised Settlements Report API.
- DFS Summarised ABSVD Domestic Report API
- DFS Summarised ABSVD Non-Domestic Report API
- Participant Exclusion Report API

How Pagination Works

Pagination parameters are included in the API schema and indicate:

- the total number of records matching the query
- the current page being returned
- the page size
- the total number of pages based on the query parameters

To retrieve the full dataset for any of the above APIs such as the complete MPAN Portfolio, Summarised Settlements, ABSVD Domestic, or ABSVD Non-Domestic data participants must call the API for each page until all pages have been retrieved.

More details, including schema examples and sample payloads, can be found in the **Appendix** section of this document.

6. DFS Data Submission APIs (POST APIs) – Providers to NESO

List of Post APIs

The following POST APIs are available for participants to submit DFS data to NESO

- Unit Meter Point Schedule submission to NESO
- Bid Submission to NESO
- Weekly Settlement Submission to NESO
- Consolidated MPAN Forecast

Data Headers of all the POST APIs

DFS column headers for Unit Meter Point Schedule Submission

The column headers for the Unit Meter Point Schedule Submission are listed below:

JSON Payload Field Name	Request Data Type	Schema Validation	Is Required
Submission Date	string	Min/Max length = 10; must be a valid date in dd-mm-yyyy format	Mandatory
Registered DFS Participant	string	—	Mandatory
Import MPAN	string	Min/Max length = 13	Mandatory
Export MPAN	string	Min length = 0; Max length = 13 digits	Non-Mandatory
MPANs Effective From	string	Min length = 0; Max length = 10; must be a valid date in dd-mm-yyyy format	Non-Mandatory
MPANs Effective To	string	Min length = 0; Max length = 10; must be a valid date in dd-mm-yyyy format	Non-Mandatory
MPANs Customer Consent Flag	string	Min length = 0; Max length = 5; values: True / False	Non-Mandatory
Consent Effective From	string	Min length = 0; Max length = 10; must be a valid date in dd-mm-yyyy format	Non-Mandatory
Consent Effective To	string	Min length = 0; Max length = 10; must be a valid date in dd-mm-yyyy format	Non-Mandatory
Sub Meter Serial Number	string	Allowed characters: whitespace, hyphen,	Non-Mandatory

		underscore, forward slash; length 0–30	
Timestamp Subscribed	string	Length = 16; must be a valid date-time in dd-mm-yyyy hh:mm format	Mandatory
Postcode	string	Min length = 5; Max length = 7	Mandatory
Zone	integer	Valid number; must be greater than 0	Mandatory
DFS Unit ID	string	—	Mandatory
Opt In	enum	Auto / Manual	Mandatory
HH Settled	bool	true / false	Mandatory
Consumer Type	enum	Values: Industrial & Commercial / Domestic / Solar Generation / Wind Generation / Other	Mandatory
Baseline Type	enum	P376 / Self-Nominated	Mandatory
Flexibility Type	enum	Upwards / Downwards / Both	Non-Mandatory
DFS Initiation Measure	enum	Manually Initiated / Directly Instructable	Mandatory
Action	enum	Add / Remove	Mandatory

DFS column headers for Bids Submissions

The column headers for the DFC Bids Submission are listed below:

Json Payload Field Name	Request Data Type	Required Validation	Is Required

Event ID	integer	Must be greater than 0	Mandatory
Event Type	enum	Upwards / Downwards	Mandatory
Delivery Date	string	Length = 10; must be a valid date in dd-mm-yyyy format	Mandatory
Registered DFS Participant	string	—	Mandatory
DFS Unit ID	string	—	Mandatory
DFS Volume MW	number	—	Mandatory
From _Local	string	Length = 5; must contain digits and one colon (:). Example: *14:30*, *22:00*	Mandatory
To_Local	string	Length = 5; must contain digits and one colon (:). Example: *14:30*, *22:00*	Mandatory
Utilisation price GBP per MWh	number	Must be numeric (integer or decimal); must be zero or a positive value	Mandatory

DFS column headers for Weekly Settlements Submissions

The column headers for the Weekly Settlement submissions are listed below:

JSON Payload Field Name	Request Data Type	Schema Validation	Is Required
Event ID	integer	Must be greater than 0	Mandatory
Event Type	enum	Upwards / Downwards	Mandatory
Delivery Date	string	Length = 10; valid date in dd-mm-yyyy format	Mandatory

From_Local	string	Length = 5; must contain digits and one colon (:). Examples: 14:30, 22:00	Mandatory
To_Local	string	Length = 5; must contain digits and one colon (:). Examples: 14:30, 22:00	Mandatory
Registered DFS Participant	string	_	Mandatory
DFS Unit ID	string	—	Mandatory
Import MPAN	string	Min/Max length = 13	Mandatory
Export MPAN	string	Min length = 0; Max length = 13 digits	Non-Mandatory
Sub Meter Serial Number	string	Allowed characters: whitespace, hyphen, underscore, forward slash; length 0–30	Non-Mandatory
Participating	boolean	True / False	Mandatory
Baseline kWh	Number	Numeric; decimal allowed (max 2 decimal places)	Mandatory
Metered kWh	Number	Numeric; decimal allowed (max 2 decimal places)	Mandatory
Delivered kWh	Number	Numeric; decimal allowed (max 2 decimal places)	Mandatory
Accepted Utilisation Price GBP per MWh	Number	Numeric; decimal allowed (max 1 decimal place); must be zero or positive	Mandatory
HH Settled	boolean	True / False	Mandatory
Participating Meter Electricity Supplier	boolean	True / False	Mandatory
Consumer Type	enum	Industrial & Commercial / Domestic / Solar Generation / Wind Generation / Other	Mandatory

Elexon BMU ID	string	Allowed characters: whitespace, hyphen, underscore, forward slash; length 0–30	Non-Mandatory
Baseline Type	enum	P376 / Self-Nominated	Non-Mandatory

DFS column headers for Consolidated MPAN Forecast

The column headers for the Consolidated MPAN Forecast are listed below:

JSON Payload Field Name	Request Data Type	Schema Validation	Is Required
Delivery Date	string	Length = 10; must be a valid date in dd-mm-yyyy format	Mandatory
From_Local	string	Length = 5; must contain digits and one colon (:). Examples: 14:30, 22:00	Mandatory
To_Local	string	Length = 5; must contain digits and one colon (:). Examples: 14:30, 22:00	Mandatory
Registered DFS Participant	string	—	Mandatory
DFS Unit ID	string	—	Mandatory
Import MPAN	string	Min length = 0; Max length = 13 digits	Non-Mandatory
Export MPAN	string	Min length = 0; Max length = 13 digits	Non-Mandatory
Baseline kWh	Number	Numeric; decimal allowed (max 2 decimal places)	Mandatory

Response Codes/Messages of all the POST APIs

The following response code indicates the status of DFS POST API submissions. This helps participants understand whether the request was received successfully and how it will be processed.

Code: 202 Accepted

```
{
"code": "202 Accepted",
"message": "A request has been submitted for further processing. An email will be triggered if any errors are identified.”
}
```

Notes:

This response is returned immediately when a participant submits data, confirming that the request has been successfully received by NESO.

Once the data is processed:

- If all validations pass, participants will receive a success notification via email.
- If validation fails, participants will receive an error notification via email with details of the issue.

FAILURE SCENARIOS:

If a DFS POST API call fails due to validation errors, missing data, rate limit breaches, or server-side issues, the API will return an appropriate failure response code along with a short error message.

Code: 400 BAD REQUEST

```
{
"code": "400 Bad Request",
"message": "Error identified in the submitted data. An email will be triggered with further details."
}
```

Code: 503 Service Unavailable

```
{
"code": "503 Service unavailable",
"message": "Unable to connect to the server. Please try after some time."
}
```

Code: 429 Too Many Requests

```
{
"code": "429 Service unavailable",
"message": "Too Many requests. Please try after some time."
}
```

Non-JSON Response Codes

Code : 401 Unauthorized

Message: “Invalid token”

Code: 402 Forbidden

Message: “Requested resource not found”

Code : 403 Forbidden

Message : “Insufficient Permissions”

7. DFS Data Retrieval APIs (GET APIs) – NESO to Providers

List of GET APIs

Below is the list of GET APIs that NESO to send the data to Providers.

Data Submission APIs (GET APIs) – NESO to Providers:

- MPAN Portfolio from NESO
- Bid Results from NESO
- Summarised Settlement Report from NESO
- Summarised ABSVD Domestic Report from NESO
- Summarised ABSVD Non-Domestic Report from NESO
- Participant Exclusion Report from NESO

Query Parameters of all the GET APIs

DFS MPAN portfolio API Request

Parameter	Type	Required	Description
PortfolioDate	string	yes	The date on which the portfolio is generated after performing duplication checks and filtering. Must be in dd-MM-yyyy format. *Note: This is not the MPAN submission date.*
page	number	no	The page number for pagination. Defaults to **1** if not provided.

Example Request URL:

```
GET [BaseURL]/api/[endpoint]?PortfolioDate=08-02-2024&page=1
```

Note:
Participants must append the PortfolioDate and, if required, the page number to the Base URL when making the MPAN Portfolio API request, as shown above.

The updated URL containing the tenantID will be shared during the onboarding process.

DFS Bid Results

DFS Bids Results API will allow you to access the DFS Auction results after the assessment via API route in addition to the SharePoint and Data portal. The API returns bid results only for the most recent DFS event.

Parameter	Type	Required
eventid	integer	yes

Example Request URL:

```
GET [BaseURL]/api/[endpoint]?eventid=1
```

Note:
The updated URL containing the tenantID will be provided once participants are onboarded to the DFS service and have opted to use the API route.

DFS Summarised Settlements Report

The Providers Summarised Settlements can be accessed via API using the below information.

Parameter	Type	Required	Description
DeliveryDate	string	yes	The date used for filtering records, in dd-MM-yyyy format. Records from the specified delivery date up to the next 30 days will be returned.
page	number	no	The page number for pagination. Defaults to **1** if not provided.

Example Request URL:

```
GET [Base URL]/api/[endpoint]?DeliveryDate=08-02-2024&page=1
```

Note:

Participants must append the DeliveryDate and, if required, the page number to the Base URL when making the DFS Summarised Settlements API request, as shown in the example above.

The updated URL containing the tenantID will be provided once participants are onboarded to the DFS service and have opted to use the API route.

DFS Summarised ABSVD Domestic Report

The Providers Summarised ABSVD Domestic records be accessed via API using the below information.

Parameter	Type	Required	Description
DeliveryDate	string	yes	The date used for filtering records, in dd-MM-yyyy format. Records from the specified delivery date up to the next 30 days will be returned.
page	number	no	The page number for pagination. Defaults to **1** if not provided.

Example Request URL:

```
GET [Base URL]/api/[endpoint]?DeliveryDate=08-02-2024&page=1
```

Note:

Participants must append the DeliveryDate and, if required, the page number to the Base URL when making the DFS Summarised ABSVD Domestic API request, as shown in the example above.

The updated URL containing the tenantID will be provided once participants are onboarded to the DFS service and have opted to use the API route.

DFS Summarised ABSVD Non-Domestic Report

The Providers Summarised ABSVD Non-Domestic records be accessed via API using the below information.

Parameter	Type	Required	Description
DeliveryDate	string	yes	The date used for filtering records, in dd-MM-yyyy format. Records from the specified delivery date up to the next 30 days will be returned.

page	number	no	The page number for Defaults to **1** if not provided.

Example Request URL:

```
GET [Base URL]/api/[endpoint]?DeliveryDate=08-02-2024&page=1
```

Note:

Participants must append the DeliveryDate and, if required, the page number to the Base URL when making the DFS Summarised ABSVD Non-Domestic API request, as shown in the example above.

The updated URL containing the tenantID will be provided once participants are onboarded to the DFS service and have opted to use the API route.

DFS Participant Exclusion Results

DFS Participant Exclusion Results via API will allow you to access the excluded MPANs via API route in addition to the SharePoint. The API returns today's date only for the most recent DFS event.

Parameter	Type	Required
page	integer	No

Example Request URL:

```
GET [BaseURL]/api/[endpoint]?page=1
```

Note:

The updated URL containing the tenantID will be provided once participants are onboarded to the DFS service and have opted to use the API route.

Response Codes/Messages of all the GET APIs.

Invalid Response Examples:

Case 1: Invalid page number

```
{
 "response code": 200,
```

```
 "message": "Invalid page number. Page number must be between 1 and 10.",
  "data” : {},
  "pagination” : {}
 }
```

FAILURE SCENARIOS:

Code: 503 Service Unavailable

```
{
"code": "503 Service unavailable",
"message": "Unable to connect to the server. Please try after some time."
}
```

Code: 429 Too Many Requests

```
{
"code": "429 Service unavailable",
"message": "Too Many requests. Please try after some time."
}
```

Non-JSON Response Codes

Code : 401 Unauthorized

Message: “Invalid token”

Code: 402 Forbidden

Message: “Requested resource not found”

Code : 403 Forbidden

Message : “Insufficient Permissions”

Response messages for DFS Bids results to cover various cases.

The following are different response messages for various cases for DFS Bids API.

Invalid Response Examples:

Case 1: When requestor has not participated in the DFS event

```
{
  "response code": 200,
```

```
  "message": "No bids submission found.",
  "data": {}
}
```

Case 2: When Bids Assessment is in progress for the DFS event.

```
{
  "response code": 200,
  "message": " Assessment is in progress.",
  "data": {}
}
```

8. Appendix

DFS APIs Schemas

Unit Meter Point Schedule API Request Schema

Please find the API Schema for DFS Unit Meter Point Schedule (MPAN) submissions below which contains the JSON schema (I.e., structure of the data to be sent in the body of the API) for MPAN. This schema can be used by the developers who wish to consume the API in their applications.

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "Submission Date": {“type": "string"}
      "Registered DFS Participant": {“type": "string”},
      "Import MPAN": {“type": "string”},
      "Export MPAN": {“type": "string"}
      "MPANs Effective From": {“type": "string”},
      "MPANs Effective To": {“type": "string”},
      "MPANs Customer Consent Flag": {“type": "string”},
      "Consent Effective From": {“type": "string”},
      "Consent Effective To": {“type": "string”},
      "Sub Meter Serial Number": {“type": "string”},
      "Timestamp Subscribed": {“type": "string"},
```

```
      "Postcode": {"type": "string"},
      "Zone": {"type": "integer"},
      "DFS Unit ID": {"type": "string"},
      "Opt In": {"type": "string"},
      "HH Settled": {"type": "boolean"},
      "Consumer Type": {"type": "string"},
      "Baseline Type": {"type": "string"},
      "Flexibility Type": {"type": "string"},
      "DFS Initiation Measure": {"type": "string"},
      "Action": {"type": "string"}
    },
    "required": [
      "Submission Date",
      "Registered DFS Participant",
      "Import MPAN",
      "Timestamp Subscribed",
      "Postcode",
      "Zone",
      "DFS Unit ID",
      "Opt In",
      "HH Settled",
      "Consumer Type",
      "Baseline Type",
      "DFS Initiation Measure",
      "Action"
    ],
    "additionalProperties": false
  }
}
```

Bid Submission API Request Schema

The below contains the JSON schema (i.e., structure of the data to be sent in the body of the API) for DFS Bids. This schema can be used by the developers who wish to consume the API in their applications.

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
```

```
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "Event ID": {“type": "integer"},
      "Event Type": {“type": "string"},
      "Delivery Date": {“type": "string"},
      "Registered DFS Participant": {“type": "string"},
      "DFS Unit ID": {“type": "string"},
      "DFS Volume MW": {“type": "number"},
      "From_Local": {“type": "string"},
      "To_Local": {“type": "string"},
      "Utilisation price GBP per MWh": {“type": "number"}
   },
    "required": [
      "Event ID",
      "Event Type",
      "Delivery Date",
      "Registered DFS Participant",
      "DFS Unit ID",
      "DFS Volume MW",
      "From_Local",
      "To_Local",
      "Utilisation price GBP per MWh"
    ],
    "additionalProperties": false
 }
}
```

Weekly Settlement Submission API Request Schema

Please find the API Schema for DFS Weekly Settlement submissions below which contains the JSON schema (I.e., structure of the data to be sent in the body of the API) for Weekly Settlements. This schema can be used by the developers who wish to consume the API in their applications.

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "array",
```

```
  "maxItems": 5000,
  "minItems": 1,
  "items": {
    "type": "object",
    "required": [
      "Event ID",
      "Event Type",
      "Delivery Date",
      "From_Local",
      "To_Local",
      "Registered DFS Participant",
      "DFS Unit ID",
      "Import MPAN",
      "Participating",
      "Baseline kWh",
      "Metered kWh",
      "Delivered kWh",
      "Accepted Utilisation Price GBP per MWh",
      "HH Settled",
      "Participating Meter Electricity Supplier",
      "Consumer Type"
    ],
    "properties": {
      "Event ID": {"type": "integer"},
      "Event Type": {"type": "string"},
      "Delivery Date": {"type": "string"},
      "From_Local": {"type": "string"},
      "To_Local": {"type": "string"},
      "Registered DFS Participant": {"type": "string"},
      "DFS Unit ID": {"type": "string"},
      "Import MPAN": {“type": "string"},
      "Export MPAN": {“type": "string"},
      "Sub Meter Serial Number": {“type": "string"},
      "Participating": {“type": "boolean"},
      "Baseline kWh": {“type": "number"},
      "Metered kWh": {“type": "number"},
      "Delivered kWh": {“type": "number"},
      "Accepted Utilisation Price GBP per MWh": {“type": "number"},
```

```
      "HH Settled": {“type": "boolean"},
      "Participating Meter Electricity Supplier": {“type": "boolean"},
      "Consumer Type": {“type": "string"},
      "Elexon BMU ID": {“type": "string"},
      "Baseline type": {“type": "string"}
   },
    "additionalProperties": false
 }
}
```

Consolidated MPAN Forecast API Request Schema

Please find the API Schema for DFS Consolidated MPAN Forecast submissions below.

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "Delivery Date": {“type": "string”},
      "From_Local": {“type": "string”},
      "To_Local": {“type": "string”},
      "Registered DFS Participant": {“type": "string”},
      "DFS Unit ID": {“type": "string”},
      "Import MPAN": {“type": "string”},
      "Export MPAN": {“type": "string”},
      "Baseline kWh": {“type": "number”}
   },
    "required": [
      "Delivery Date",
      "From_Local",
      "To_Local",
      "Registered DFS Participant",
      "DFS Unit ID",
      "Baseline kWh"
    ],
    "additionalProperties": false
 }
}
```

MPAN Portfolio API Response Schema

Below is the MPAN Portfolio API Response Schema

```
{
    "type": "object",
```

```
    "properties": {
      "response code": number,
       "message": {
        "type”:"string",
         "description": The status of the API response, e.g. 'success' or 'error'."
    },
      "data": {

      "type": "array",

      "items": {

        "type": "object",

        "properties": {

          "Submission Date": { "type": "string", "pattern": "^\\d{2}-\\d{2}-\\d{4}$"
},

          "Registered DFS Participant": { "type": "string" },

          "Import MPAN": { "type": "string" },

          "Export MPAN": { "type": "string" },

          "MPANs Effective From": { "type": "string", "pattern": "^\\d{2}-\\d{2}-
\\d{4}$" },

          "MPANs Effective To": { "type": "string", "pattern": "^\\d{2}-\\d{2}-
\\d{4}$" },

          "MPANs Customer Consent Flag": { "type": "string", "enum": ["true", "false"]
},

          "Consent Effective From": { "type": "string", "pattern": "^$|^\\d{2}-\\d{2}-
\\d{4}$" },

          "Consent Effective To": { "type": "string", "pattern": "^$|^\\d{2}-\\d{2}-
\\d{4}$" },

          "Sub Meter Serial Number": { "type": "string" },

          "Timestamp Subscribed": { "type": "string", "pattern": "^\\d{2}-\\d{2}-
\\d{4} \\d{2}:\\d{2}$" },

          "Postcode": { "type": "string" },

          "Zone": { "type": "integer" },

          "DFS Unit ID": { "type": "string" },

          "Opt In": { "type": "string" },

          "HH Settled": { "type": "string", "enum": ["true", "false"] },

          "Consumer Type": { "type": "string" },

          "Baseline Type": { "type": "string" },

          "Flexibility Type": { "type": ["string", "null"] },
```

```
          "DFS Initiation Measure": { "type": "string" }

        },

      },
       "pagination": {
         "type": "object",
         "properties": {
           "totalRecords": { "type": "integer"},
           "currentPage": { "type": "integer"},
           "pageSize": { "type": "integer", "default": 5000},
           "totalPages": { "type": "integer"}
         }
       }
    }
  }
```

Bid Results API Response Schema

Below is the DFS Bid Results API Schema

```
"type": "object",
  "properties": {
    "response code": {
      "type": "integer",
      "description": "The HTTP response code indicating the result of the API call."
   },
    "message": {
      "type": "string",
      "description": "A message providing additional information about the API
response."
   },
"data": {
      "type": "array",
      "items": {
        "type": "object",
        "additionalProperties": false,
        "properties": {
          "EventID": { "type": "integer" },
          "EventType": { "type": "string" },
          "Delivery Date": {
            "type": "string",
            "pattern": "^\\d{2}-\\d{2}-\\d{4}$"
          },
          "Registered DFS Participant": { "type": "string" },
          "DFS Unit ID": { "type": "string" },
          "DFS Volume MW": { "type": "number" },
          "From_Local": {
```

```
            "type": "string",
            "pattern": "^\\d{2}:\\d{2}$"
          },
          "To_Local": {
            "type": "string",
            "pattern": "^\\d{2}:\\d{2}$"
          },
          "Utilisation Price GBP per MWh": { "type": "number" },
          "Status": {
            "type": "string",
            "enum": ["Accepted", "Rejected"]
          }
        },
        "required": [
          "EventID",
          "EventType",
          "Delivery Date",
          "Registered DFS Participant",
          "DFS Unit ID",
          "DFS Volume MW",
          "From_Local",
          "To_Local",
          "Utilisation Price GBP per MWh",
          "Status"
        ]
      }
    }
  },
  "required": ["response code", "message", "data"]
}
```

Summarised Settlement Report API Response Schema

Below is the Summarised Settlements API Response Schema

```
{
    "type": "object",
    "properties": {
      "response code": number,
       "message": {
        "type”:"string",
         "description": The status of the API response, e.g. 'success' or 'error'."
    },
 "data": {
      "type": "array",
      "items": {
        "type": "object",
        "additionalProperties": false,
        "properties": {
          "Event ID": { "type": "integer" },
          "Event Type": { "type": "string" },
          "Event Tag": { "type": "string" },
          "Delivery Date": { "type": "string", "format": "date" },
          "From_Local": { "type": "string", "pattern": "^\\d{2}:\\d{2}$" },
          "To_Local": { "type": "string", "pattern": "^\\d{2}:\\d{2}$" },
          "Settlement Period": { "type": "number" },
          "Registered DFS Participant": { "type": "string" },
          "DFS Unit ID": { "type": "string" },
          "Baseline MWh": { "type": "number" },
          "Metered MWh": { "type": "number" },
          "Delivered MWh": { "type": "number" },
          "Accepted Utilisation Price GBP per MWh": { "type": "number" },
          "DFS Procured (MW)": { "type": "number" },
          "Settled MWh": { "type": "number" },
          "Settled GBP (£)": { "type": "number" }
        },
        "required": [
          "Event ID",
          "Event Type",
          "Event Tag",
          "Delivery Date",
          "From_Local",
          "To_Local",
```

```
          "Settlement Period",
          "Registered DFS Participant",
          "DFS Unit ID",
          "Baseline MWh",
          "Metered MWh",
          "Delivered MWh",
          "Accepted Utilisation Price GBP per MWh",
          "DFS Procured (MW)",
          "Settled MWh",
          "Settled GBP (£)"
        ]
        }
    },
     "pagination": {
       "type": "object",
       "properties": {
         "totalRecords": {“type": "integer"},
         "currentPage": {“type": "integer"},
         "pageSize": {“type": "integer", "default": 5000},
         "totalPages": {“type": "integer"}
      }
    }
  }
}
```

Summarised ABSVD Domestic Report API Response Schema

Below is the Summarised ABSVD Domestic API Response Schema

```
Response

{
    "type": "object",
    "properties": {
      "response code": number,
       "message": {
        "type" :"string",
         "description": The status of the API response, e.g. 'success' or 'error'."
    },
      "data": {
        "type": "array",
        "items": {
          "type": "object",
          "properties": {
          "Event ID": {"type": "integer”},
          "Event Type": {"type": "string"},
          "Delivery Date": {"type": "string","pattern": "^\\d{2}-\\d{2}-\\d{4}$"},
          "From_Local": {"type": "string","pattern": "^\\d{2}:\\d{2}$"},
          "To_Local": {“type": "string","pattern": "^\\d{2}: \\d{2}$"},
          "Settlement Period": {“type": "number”},
          "Registered DFS Participant": {“type": "string”},
```

```
          "DFS Unit ID": {“type": "string”},
          "Delivered MWh": {“type": "number”},
          "Elexon BMU ID": {“type": "string”}
            }
        }
      },
       "pagination": {
         "type": "object",
         "properties": {
           "totalRecords": {“type": "integer"},
           "currentPage": {“type": "integer"},
           "pageSize": {“type": "integer", "default": 5000},
           "totalPages": {“type": "integer"}
        }
      }
    }
  }
```

Summarised ABSVD Non-Domestic Report API Schema

Below is the Summarised ABSVD Non-Domestic API Response Schema

```
{
    "type": "object",
    "properties": {
      "response code": number,
       "message": {
        "type" :"string",
         "description": The status of the API response, e.g. 'success' or 'error'."
    },
      "data": {
        "type": "array",
        "items": {
          "type": "object",
          "properties": {
 "Event ID": { "type": "integer" },
          "Event Type": {“type": "string"},
          "Delivery Date": {“type": "string","pattern": "^\\d{2}-\\d{2}-\\d{4}$"},
          "From_Local": {"type": "string","pattern": "^\\d{2}: \\d{2}$"},
          "To_Local": {"type": "string", "pattern": "^\\d{2}:\\d{2}$"},
          "From_UTC": {"type": "string","pattern": "^\\d{2}:\\d{2}$"},
          "To_UTC": {"type": "string","pattern": "^\\d{2}:\\d{2}$"},
          "Settlement Period": {“type": "number"},
          "Registered DFS Participant": {"type": "string”},
          "DFS Unit ID": {"type": "string"},
          "Import Mpan": {"type": "string"},
          "Export Mpan": {"type": "string"},
          "Delivered MWh": {"type": "string"},
          "Accepted Utilisation Price GBP per MWh": {"type": "number"}
            }
      }
     },
      "pagination": {
        "type": "object",
        "properties": {
          "totalRecords": {"type": "integer"},
          "currentPage": {"type": "integer"},
          "pageSize": {"type": "integer", "default": 5000},
          "totalPages": {“type": "integer"}
       }
     }
   }
 }
```

Participant Exclusion Report API Response Schema

Below is the Participant Exclusion Report API Response Schema

```
{
    "type": "object",
    "properties": {
      "response code": number,
       "message": {
        "type" :"string",
         "description": The status of the API response, e.g. 'success' or 'error'."
    },
      "data": {
        "type": "array",
        "items": {
          "type": "object",
"properties": {
          "ConflictStart_local": {"type": "string", "pattern": "^\\d{2}-\\d{2}-\\d{4}
\\d{2}:\\d{2}$"
          },
          "ConflictEnd_local": {"type": "string", "pattern": "^\\d{2}-\\d{2}-\\d{4}
\\d{2}:\\d{2}$"
          },
          "ConflictStart_UTC": {"type": "string","pattern": "^\\d{2}-\\d{2}-\\d{4}
\\d{2}:\\d{2}$"
          },
          "ConflictEnd_UTC": {"type": "string", "pattern": "^\\d{2}-\\d{2}-\\d{4}
\\d{2}:\\d{2}$"
          },
          "Registered DFS Participant": {"type": "string"},
          "MPAN": {"type": "string"},
          "DFS Unit": {"type": "string"},
          "Reason Code": {"type": "string"},
          "Conflict Direction": {"type": "string"}
            }
      }
     },
      "pagination": {
        "type": "object",
        "properties": {
          "totalRecords": {"type": "integer"},
          "currentPage": {"type": "integer"},
          "pageSize": {"type": "integer", "default": 5000},
          "totalPages": {"type": "integer"}
    }
  }
}
}
```

Unit Meter Point Schedule API Sample Request

Providers who wish to consume the API in their application must send the MPAN data in JSON format in the body of the API. This is also called as payload of the API. The below shown JSON is a sample JSON payload which can be used as a reference by the providers who wish to consume the MPAN API.

Note: The order of the parameters does not matter if your submissions are through API.

Please find the request JSON payload as below


```
[
    {
        "Submission Date": "19-03-2026",
        "Registered DFS Participant": "Beta Dev",
        "Import MPAN": "3112619458610",
        "Export MPAN": "3122619458616",
        "MPANs Effective From": "20-03-2026",
        "MPANs Effective To": "16-04-2026",
        "MPANs Customer Consent Flag": "True",
        "Consent Effective From": "21-03-2026",
        "Consent Effective To": "15-04-2026",
        "Sub Meter Serial Number": "SVDF34",
        "Timestamp Subscribed": "10-05-2023 21:00",
        "Postcode": "DFk5RT",
        "Zone":2,
        "DFS Unit ID": "Beta-1-Z2",
        "Opt In": "Manual",
        "HH Settled": true,
        "Consumer Type": "Wind Generation",
        "Baseline Type": "P376",
        "Flexibility Type": "Upwards",
        "DFS Initiation Measure": "Manually Initiated",
        "Action": "Add"
    },
{
        "Submission Date": "19-03-2026",
        "Registered DFS Participant": "Beta Dev",
        "Import MPAN": "3132619458612",
        "Export MPAN": "3142619458619",
        "MPANs Effective From": "20-03-2026",
        "MPANs Effective To": "16-04-2026",
        "MPANs Customer Consent Flag": "False",
        "Consent Effective From": "",
        "Consent Effective To": "",
        "Sub Meter Serial Number": "DF /GHf",
        "Timestamp Subscribed": "10-05-2023 21:00",
        "Postcode" : "Chk56h",
        "Zone" :1,
        "DFS Unit ID" : "Beta-2-Z1",
        "Opt In": "Auto",
        "HH Settled": false,
        "Consumer Type": "Solar Generation",
        "Baseline Type": "P376",
```

```
        "Flexibility Type”: "Both",
        "DFS Initiation Measure": "Directly Instructable",
        "Action": "Add"
    }

]
```

Bid Submission API Sample Request

Providers who wish to consume the API in their application must send the DFS Bid data in JSON format in the body of the API. This is also called as payload of the API. The below shown JSON is a sample JSON payload which can be used as a reference by the providers who wish to consume the DFS Bids API.

Note: The order of the parameters does not matter if your submissions are through API.

Please find the request JSON payload as below

```
[
    {
        "Event ID":570,
        "Event Type": "Upwards",
        "Delivery Date": "18-03-2026",
        "Registered DFS Participant": "Beta Dev",
        "DFS Unit ID": "Beta-1-Z2",
        "DFS Volume MW": 78,
        "From_Local": "01:00",
        "To_Local": "01:30",
        "Utilisation price GBP per MWh": 200
    },
    {
        "Event ID": 570,
        "Event Type": "Upwards",
        "Delivery Date": "18-03-2026",
        "Registered DFS Participant": "Beta Dev",
        "DFS Unit ID": "Beta-2-Z1",
        "DFS Volume MW": 79,
        "From": "01:30",
        "To": "02:00",
        "Utilisation price GBP per MWh": 200
    }
]
```

Weekly Settlement Submission API Sample Request

Providers who wish to consume the API in their application must send the Weekly Settlements data in JSON format in the body of the API. This is also called as payload of the API. The below shown JSON is a sample JSON payload which can be used as a reference by the providers who wish to consume the Weekly Settlement API.

Note: The order of the parameters does not matter if your submissions are thr

Please find the request JSON payload as below

```
[
    {
        "Event ID" :570,
        "Event Type”: “Upwards",
        "Delivery Date":"18-03-2026",
        "From":"04:30",
        "To":"05:00",
        "Registered DFS Participant”: “Beta",
        "DFS Unit ID":"Beta-1-Z2",
        "Import MPAN":"3015019458618",
        "Export MPAN":"3025019458614",
        "Sub Meter Serial Number":"SDFGH234",
        "Participating”: true,
        "Baseline kWh":80.33,
        "Metered kWh":55.22,
        "Delivered kWh":25.11,
        "Accepted Utilisation Price GBP per MWh": 20.3,
        "HH Settled”: true,
        "Participating Meter Electricity Supplier”: false,
        "Consumer Type”: “Wind Generation",
        "Elexon BMU ID": "KJLDR",
        "Baseline type": "P376"
    }
]
```

Consolidated MPAN Forecast API Sample Request

Providers who wish to consume the API in their application must send the MPAN forecast in JSON format in the body of the API. This is also called as payload of the API. The below shown JSON is a sample JSON payload which can be used as a reference by the providers who wish to consume the Consolidated MPAN Forecast API.

Note: The order of the parameters does not matter if your submissions are through API.

Please find the request JSON payload as below

```
[
    {
```

```
        "Delivery Date": "18-03-2026",
        "From_Local": "04:30",
        "To_Local": "05:00",
        "Registered DFS Participant": "Beta Dev",
        "DFS Unit ID": "Beta-1-Z2",
        "Import MPAN": "3015019458618",
        "Export MPAN": "3025019458614",
        "Baseline kWh": 80.33
    }
]
```


MPAN Portfolio API Sample Response

Please find the below examples of MPAN Portfolio API


```
{
  "response code" 200,
  "message": "Data retrieved successfully",
  "data": [
{
            "Submission Date": "19-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "Import MPAN": "3111619458618",
            "Export MPAN": "3112019458617",
            "MPANs Effective From": "20-03-2026",
            "MPANs Effective To": "16-04-2026",
            "MPANs Customer Consent Flag": "",
            "Consent Effective From": "21-03-2026",
            "Consent Effective To": "15-04-2026",
            "Sub Meter Serial Number": "NM/FG_df- BG",
            "Timestamp Subscribed": "10-05-2023 21:00",
            "Postcode" : "CHK56H",
            "Zone": 3,
            "DFS Unit ID": "Beta-3-Z3",
            "Opt In": "Auto",
            "HH Settled": "true",
            "Consumer Type": "Domestic",
            "Baseline Type": "P376",
            "Flexibility Type": "Both",
            "DFS Initiation Measure": "Directly Instructable"
        }
   ],
  "pagination": {
    "totalRecords": 15000000,
```

```
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```

Bid Results API Sample Response

Below is the DFS Bids Response Example

```
Response Example

{
  "response code": 200,
  "message": "Data retrieved successfully",
  "data": [
       {
            "EventID": 570,
            "EventType": "Upwards",
            "Delivery Date": "18-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-1-Z2",
            "DFS Volume MW": 78,
            "From_Local": "01:00",
            "To_Local": "01:30",
            "Utilisation Price GBP per MWh": 200,
            "Status": "Accepted"
        },
        {
            "EventID": 570,
            "EventType": "Upwards",
            "Delivery Date": "18-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "DFS Volume MW": 79,
            "From_Local": "01:30",
            "To_Local": "02:00",
            "Utilisation Price GBP per MWh": 200,
            "Status": "Accepted"
        }

   ]
}
```

Summarised Settlement Report API Sample Response

Please find the below examples of DFS Summarised Settlements API Response Examples

```
Response Example

{
  "response code" 200,
```

```
  "message": "Data retrieved successfully",
  "data": [
    {
            "Event ID": 563,
            "Event Type": "Upwards",
            "Event Tag": "Energy",
            "Delivery Date": "2026-03-16",
            "From_Local": "01:00",
            "To_Local": "01:30",
            "Settlement Period": 3,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-1-Z2",
            "Baseline MWh": 0.2,
            "Metered MWh": 0.11,
            "Delivered MWh": 0.09,
            "Accepted Utilisation Price GBP per MWh": 20.3,
            "DFS Procured (MW)": 78.0,
            "Settled MWh": 0.09,
            "Settled GBP (£)": 0.0
        },
        {
            "Event ID": 563,
            "Event Type": "Upwards",
            "Event Tag": "Energy",
            "Delivery Date": "2026-03-16",
            "From_Local": "01:30",
            "To_Local": "02:00",
            "Settlement Period": 4,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "Baseline MWh": 0.2,
            "Metered MWh": 0.11,
            "Delivered MWh": 0.09,
            "Accepted Utilisation Price GBP per MWh": 20.3,
            "DFS Procured (MW)": 79.0,
            "Settled MWh": 0.09,
            "Settled GBP (£)": 0.0
        },

  ],
  "pagination": {
    "totalRecords": 15000000,
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```


Summarised ABSVD Non-Domestic Report API Sample Response

Please find the below examples of DFS Summarised ABSVD Non-Domestic API.


```
Response Example:

{
  "response code": 200,
  "message": "Data retrieved successfully",
  "data": [
```

```
          {
            "Event ID": 570,
            "Event Type": "Upwards",
            "Delivery Date": "18-03-2026",
            "From_Local": "06:30",
            "To_Local": "07:00",
            "From_UTC": "06:30",
            "To_UTC": "07:00",
            "Settlement Period": 14,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "Import Mpan": "3075019458616",
            "Export Mpan": "3085019458612",
            "Delivered MWh": "-0.045",
            "Accepted Utilisation Price GBP per MWh": 20.3
        },
        {
            "Event ID": 570,
            "Event Type": "Upwards",
            "Delivery Date": "18-03-2026",
            "From_Local": "06:30",
            "To_Local": "07:00",
            "From_UTC": "06:30",
            "To_UTC": "07:00",
            "Settlement Period": 14,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-3-Z3",
            "Import Mpan": "3055019458613",
            "Export Mpan": "3065019458610",
            "Delivered MWh": "-0.03",
            "Accepted Utilisation Price GBP per MWh": 20.3
        }
  ],
  "pagination” : {
    "totalRecords” : 15000000,
    "currentPage” : 1,
    "pageSize” : 5000,
    "totalPages” : 3000
 }
}
```


Summarised ABSVD Domestic Report API Sample Request

Please find the below examples of DFS Summarised ABSVD Domestic API.


```
{
  "response code" 200,
  "message": "Data retrieved successfully",
  "data": [
    {
            "Event ID": 567,
            "Event Type": "Upwards",
            "Delivery Date": "16-03-2026",
            "From_Local": "00:00",
```

```
            "To_Local": "00:30",
            "Settlement Period": 1,
            "Registered DFS Participant": "Provider 1",
            "DFS Unit ID": "P1-1-Z1",
            "Delivered MWh": 0.071,
            "Elexon BMU ID": "FGRTYHI"
        },
        {
            "Event ID": 567,
            "Event Type": "Upwards",
            "Delivery Date": "16-03-2026",
            "From_Local": "00:30",
            "To_Local": "01:00",
            "Settlement Period": 2,
            "Registered DFS Participant": "Provider 1",
            "DFS Unit ID": "P1-4-Z4",
            "Delivered MWh": 0.06,
            "Elexon BMU ID": "FGRTYHI"
        }
  ],
  "pagination": {
    "totalRecords": 15000000,
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```


Participant Exclusion API Sample Response

Below is the Participant Exclusion Response Example


```
Response Example

{
  "response code": 200,
  "message": "Data retrieved successfully",
  "data": [
        {
            "ConflictStart_local": "09-03-2026 07:00",
            "ConflictEnd_local": "16-03-2026 09:00",
            "ConflictStart_UTC": "09-03-2026 07:00",
            "ConflictEnd_UTC": "16-03-2026 09:00",
            "Registered DFS Participant": "Beta Dev",
            "MPAN": "1419395691006",
            "DFS Unit": "BGAS-01",
            "Reason Code": "Outage",
            "Conflict Direction": "Downwards"
        },
        {
            "ConflictStart_local": "09-03-2026 07:00",
            "ConflictEnd_local": "16-03-2026 09:00",
            "ConflictStart_UTC": "09-03-2026 07:00",
            "ConflictEnd_UTC": "16-03-2026 09:00",
```

```
            "Registered DFS Participant": "Beta Dev",
            "MPAN": "1419395691006",
            "DFS Unit": "BGAS-01",
            "Reason Code": "Outage",
            "Conflict Direction": "Downwards"
        }

    ]
}
```


DFS APIs Examples

Unit Meter Point Schedule API Request Example

Response Code**: 202 Accepted**


```
{
"code": "202 Accepted",
"message": "A request has been submitted for further processing. An email will be triggered if any errors are identified."
}
```


Example 1 Incorrect submission date


```
[
{
        "Submission Date": "19-03-1900",
        "Registered DFS Participant": "Beta Dev",
        "Import MPAN": "3112619458610",
        "Export MPAN": "3122619458616",
        "MPANs Effective From": "20-03-2026",
        "MPANs Effective To": "16-04-2026",
        "MPANs Customer Consent Flag": "True",
        "Consent Effective From": "21-03-2026",
        "Consent Effective To": "15-04-2026",
        "Sub Meter Serial Number": "SVDF34",
        "Timestamp Subscribed": "10-05-2023 21:00",
        "Postcode": "DFk5RT",
        "Zone":2,
        "DFS Unit ID": "Beta-1-Z2",
        "Opt In": "Manual",
        "HH Settled": true,
```

```
        "Consumer Type": "Wind Generation",
        "Baseline Type": "P376",
        "Flexibility Type": "Upwards",
        "DFS Initiation Measure": "Manually Initiated",
        "Action": "Add"
    }
]
```


Bid Submission API Request Example

Response Code**: 202 Accepted**


```
{
"code": "202 Accepted",
"message": "A request has been submitted for further processing. An email will be triggered if any errors are identified."
}
```


Example 2 Invalid Data Column Header


```
    {
        "Event ID":570,
        "Event t Tpe": "Upwards",
        "Delivery Date": "18-03-2026",
        "Registered DFS Participant": "Beta Dev",
        "DFS Unit ID": "Beta-1-Z2",
        "DFS Volume MW": 78,
        "From_Local": "01:00",
        "To_Local": "01:30",
        "Utilisation price GBP per MWh": 200
    }
```


- Response Code: 202 Accepted


```
{
"code": "202 Accepted",
"message": "A request has been submitted for further processing. An email will be triggered if any errors are identified."
}
```

Example 3 Invalid Delivery Date

```
[
    {
      "Event ID":570,
      "Event Type”:”Upwards",
      "Delivery Date": "18-03-203",
      "Registered DFS Participant": "Beta Dev",
      "DFS Unit ID": "Beta-1-Z2",
      "DFS Volume MW": 78,
      "From_Local": "01:00",
      "To_Local": "01:30",
      "Utilisation price GBP per MWh": 200
  },
]
```

Weekly Settlement Submission API Request Example

Response Code**: 202 Accepted**

```
{
"code": "202 Accepted",
"message": "A request has been submitted for further processing. An email will be triggered if any errors are identified.”
}
```

Example 4 Incorrect submission date

```
{
      "Event ID" :570,
      "Event Type”: “Upwards",
      "Delivery Date":"18-03-2024",
      "From":"04:30",
      "To":"05:00",
      "Registered DFS Participant”: “Beta",
      "DFS Unit ID":"Beta-1-Z2",
      "Import MPAN":"3015019458618",
      "Export MPAN":"3025019458614",
      "Sub Meter Serial Number":"SDFGH234",
      "Participating”: true,
      "Baseline kWh":80.33,
```

```
        "Metered kWh":55.22,
        "Delivered kWh":25.11,
        "Accepted Utilisation Price GBP per MWh": 20.3,
        "HH Settled”: true,
        "Participating Meter Electricity Supplier”: false,
        "Consumer Type”: “Wind Generation",
        "Elexon BMU ID": "KJLDR",
        "Baseline type": "P376"
    }
```


MPAN Portfolio API Response Example

Please find the below examples of MPAN Portfolio API

Response Example:

Case 1: If portfolio present for the given portfolio date


```
{
  "response code" 200,
  "message": "Data retrieved successfully",
  "data": [
{
            "Submission Date": "19-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "Import MPAN": "3111619458618",
            "Export MPAN": "3112019458617",
            "MPANs Effective From": "20-03-2026",
            "MPANs Effective To": "16-04-2026",
            "MPANs Customer Consent Flag": "",
            "Consent Effective From": "21-03-2026",
            "Consent Effective To": "15-04-2026",
            "Sub Meter Serial Number": "NM/FG_df- BG",
            "Timestamp Subscribed": "10-05-2023 21:00",
            "Postcode” : "CHK56H",
            "Zone": 3,
            "DFS Unit ID": "Beta-3-Z3",
```

```
            "Opt In": "Auto",
            "HH Settled": "true",
            "Consumer Type": "Domestic",
            "Baseline Type": "P376",
            "Flexibility Type": "Both",
            "DFS Initiation Measure": "Directly Instructable"
        }
    ],
  "pagination": {
    "totalRecords": 15000000,
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```


Case 2: If portfolio is not present for the given portfolio date.


```
{
 "response code" 200,
 "message": "No data found for the given portfolio date.",
 “data”:[],
“pagination”:[]
}
```


Case 3: If the provided page number is invalid


```
{
 "response code" 200,
 "message": "Invalid page number. Page number must be between 1 and total pages",
 “data”:[],
“pagination”:[]
}
```

Bid Results API Response Example


```
{
  "response code": 200,
  "message": "Data retrieved successfully",
  "data": [
     {
            "EventID": 570,
            "EventType": "Upwards",
            "Delivery Date": "18-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-3-Z3",
            "DFS Volume MW": 79,
            "From_Local": "02:00",
            "To_Local": "02:30",
            "Utilisation Price GBP per MWh": 200,
            "Status": "Accepted"
        },
        {
            "EventID": 570,
            "EventType": "Upwards",
            "Delivery Date": "18-03-2026",
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "DFS Volume MW": 80,
            "From_Local": "02:30",
            "To_Local": "03:00",
            "Utilisation Price GBP per MWh": 200,
            "Status": "Accepted"
        }
   ]
}
```


Summarised Settlement Report API Response Example

Please find the below examples of DFS Summarised Settlements API.

Response Example:

```
{
 "response code" 200,
 "message": "Data retrieved successfully",
 "data": [
       {
           "Event ID": 570,
           "Event Type": "Upwards",
```

```
            "Event Tag": "Energy",
            "Delivery Date": "2026-03-18",
            "From_Local": "01:30",
            "To_Local": "02:00",
            "Settlement Period": 4,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "Baseline MWh": 0.26433,
            "Metered MWh": 0.165,
            "Delivered MWh": 0.09933,
            "Accepted Utilisation Price GBP per MWh": 20.3,
            "DFS Procured (MW)": 79.0,
            "Settled MWh": 0.1,
            "Settled GBP (£)": 0.0
        },
        {
            "Event ID": 570,
            "Event Type": "Upwards",
            "Event Tag": "Energy",
            "Delivery Date": "2026-03-18",
            "From_Local": "02:30",
            "To_Local": "03:00",
            "Settlement Period": 6,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "Baseline MWh": 0.26433,
            "Metered MWh": 0.165,
            "Delivered MWh": 0.09933,
            "Accepted Utilisation Price GBP per MWh": 20.3,
            "DFS Procured (MW)": 80.0,
            "Settled MWh": 0.1,
            "Settled GBP (£)": 0.0
        }
    ],
    "pagination": {
      "totalRecords": 15000000,
      "currentPage": 1,
      "pageSize": 5000,
```

```
    "totalPages": 3000
  }
 }
```

Summarised ABSVD Domestic Report API Response Example

Please find the below examples of DFS Summarised ABSVD Domestic API.

```
Response Example:

{
  "response code" : 200,
  "message": "Data retrieved successfully",
  "data": [
            {
            "Event ID": 567,
            "Event Type": "Upwards",
            "Delivery Date": "16-03-2026",
            "From_Local": "00:00",
            "To_Local": "00:30",
            "Settlement Period": 1,
            "Registered DFS Participant": "Provider 1",
            "DFS Unit ID": "P1-1-Z1",
            "Delivered MWh": 0.071,
            "Elexon BMU ID": "FGRTYHI"
        },
        {
            "Event ID": 567,
            "Event Type": "Upwards",
            "Delivery Date": "16-03-2026",
            "From_Local": "00:30",
            "To_Local": "01:00",
            "Settlement Period": 2,
            "Registered DFS Participant": "Provider 1",
            "DFS Unit ID": "P1-4-Z4",
            "Delivered MWh": 0.06,
            "Elexon BMU ID": "FGRTYHI"
        }
  ],
  "pagination": {
    "totalRecords": 15000000,
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```

Summarised ABSVD Non-Domestic Report API Response Example

Please find the below examples of DFS Summarised ABSVD Non-Domestic API.

```
Response Example:

{
  "response code" 200,
```

```
  "message": "Data retrieved successfully",
  "data": [
            {
            "Event ID": 570,
            "Event Type": "Upwards",
            "Delivery Date": "18-03-2026",
            "From_Local": "06:30",
            "To_Local": "07:00",
            "From_UTC": "06:30",
            "To_UTC": "07:00",
            "Settlement Period": 14,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-2-Z1",
            "Import Mpan": "3075019458616",
            "Export Mpan": "3085019458612",
            "Delivered MWh": "-0.045",
            "Accepted Utilisation Price GBP per MWh": 20.3
        },
        {
            "Event ID": 570,
            "Event Type": "Upwards",
            "Delivery Date": "18-03-2026",
            "From_Local": "06:30",
            "To_Local": "07:00",
            "From_UTC": "06:30",
            "To_UTC": "07:00",
            "Settlement Period": 14,
            "Registered DFS Participant": "Beta Dev",
            "DFS Unit ID": "Beta-3-Z3",
            "Import Mpan": "3055019458613",
            "Export Mpan": "3065019458610",
            "Delivered MWh": "-0.03",
            "Accepted Utilisation Price GBP per MWh": 20.3
        }

  ],
  "pagination": {
    "totalRecords": 15000000,
    "currentPage": 1,
    "pageSize": 5000,
    "totalPages": 3000
 }
}
```

Version history

Number	Draft Date	Comments
1	03/09/2024	First Draft
1.1	18/09/2024	• Removed MPAN Query API • Added a case scenario if Bids Assessment is in progress. • Added missing 202 Response Code to Weekly Indicative Forecast • Added a new case for MPAN Portfolio API request
1.2	03/10/2024	• Document has been rebranded to NESO • Updated emails to new NESO addresses • Updated Response Codes/Messages of all GET API's
1.3	21/10/2024	• Updated Bid Submission validations. Bids can contain one decimal figure. • Mandatory headers of POST APIs clarified.
1.4	05/11/2024	• Added procured quantity fields to the Summarised Settlement Report API
1.5	26/08/2025	• Updated tenantID from NGID to NESO ID and NG to NESO
1.6	18/03/2026	• Introduced Client Credentials authentication. • Added new APIs, including: Consolidated MPAN Forecast Participant Exclusion Report • Updated schema parameters across existing APIs to support additional data requirements.