

PUBLIC

BMRS API and Data Push User Guide

November 2018 BSC Release

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BMRS API AND DATA PUSH USER GUIDE

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1 Introduction

1.1 The BMRS

The Balancing Mechanism Reporting Service (BMRS) is the primary channel for providing operational data relating to the GB Electricity Balancing and Settlement arrangements. It's used extensively by market participants to help make trading decisions and understanding market dynamics, and acts as a prompt reporting platform as well as a means of accessing historic data. The BMRS has a wider user base both within and outside of the energy industry and includes traders, regulators, industry forecasting teams and academics.

The BMRS initially lacked useable web services and unless participants subscribed to the **TIBCO service** at additional cost, there were no practical means for machine-to-machine data retrieval. As a result, many market participants resorted to custom **scripting** to access data from the website, which had a negative impact on its overall performance.

Since September 2016, users are able to retrieve all the BMRS Data programmatically via:

- A **Representational State Transfer (REST) Application Programming Interface (API)**; and
- **The Data Push Service** – A near real-time information publication capability from the BMRS system to industry participants.

1.2 Purpose and Scope

1.2.1 What is covered in this document?

This document is intended to provide guidance for users into how to use the API and include:

- Registration process and access
- Accessing data API and Uniform Resource Locator (URL)
- API functions such as search parameters
- Structure for API request
- Using and connecting to the Data Push Service

1.2.2 Are there any prerequisites?

To use this document, an understanding of software development, web services and the BMRS user interface and its data is required. By using the API, users agree to the BMRS Data Terms of Use Policy.

1.2.3 Can I access the data from the API by putting the URL in the web browser?

Yes – In this version of the API you can retrieve information using a web browser.

1.2.4 What do I need to access the Data Push Service?

Further details on the Data Push Service are available in **Section 6** and a general checklist is included in **Section 9**.

1.2.5 I am having difficulties interpreting some of the field types for the Data Push Service; where are they defined?



Application programming Interfaces (API), in context of BMRS, is a set of programming instructions for participants to access BMRS data directly from their systems outside of the firewall

TIBCO is a third party software and provides the mechanism for automated publication of BMRS data to market participants via a dedicated line.

Scripting (sometimes referred to as scraping data from the website) is the process by which users run automated programs which simulate interactive access by searching for and downloading data from displayed web pages at a set frequency, sometimes several times a minute. Heavy scripting drastically slows the website which may lead to interactive customers experiencing timeout issues, resulting in the website becoming unusable.

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Section 8.5 provides definition of the message types and field types. The Data Push Service data content is based on the TIBCO Service and for further guidance on the data items and field types please refer to the [NETA Interface Definition and Design \(IDD\): Part 1](#).

1.2.6 What support does ELEXON provide for the API and Data Push Service?

ELEXON ensures that the API guidance document is updated and that the API and Data Push Service are functional. ELEXON has no obligation to provide further support beyond providing the API key, registration and access. Any technical assistance as a result of the API integration within your business processes will be your responsibility. To help users, ELEXON has provided sample codes for the API/Data Push in the Appendices of this document (Section 10 & Section 11) and will not provide support or additional codes for the API/Data Push.

1.3 Getting Started

In summary, there are four steps required in using the API:

1. Register on the ELEXON Portal
2. Retrieve API Key
3. Use API Key to gain access to the API URL
4. Retrieve results from the API

These steps are detailed in the following sections of this document.

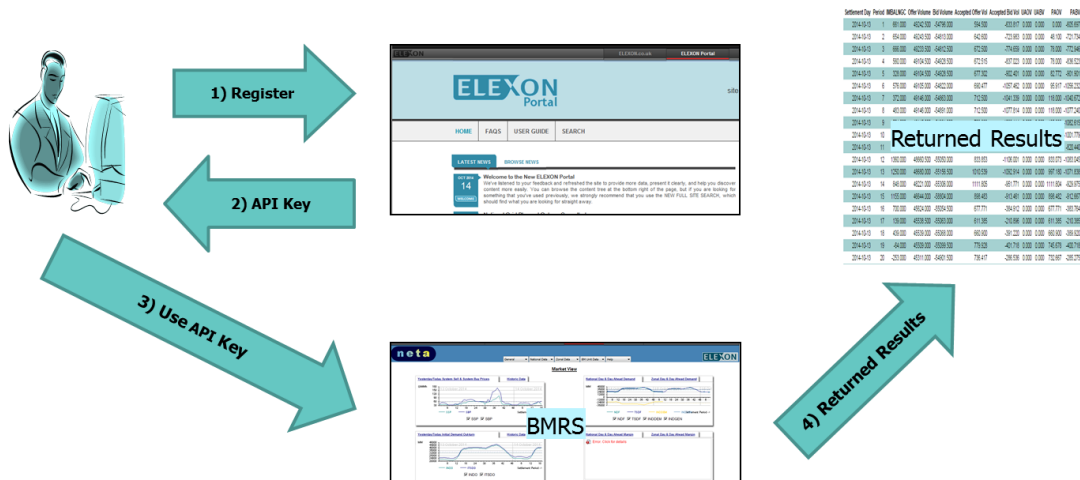


Figure 1: Steps to use API

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REGISTRATION PROCESS

2 ELEXON Portal Registration Process

2.1 Accessing ELEXON Portal

The web address for the accessing the portal is <https://www.elexonportal.co.uk/>. You can also access this by clicking on the "ELEXON Portal" button at the top of the BMRS or ELEXON websites.

Once the page has loaded use your log in credentials to access the page or register as shown below.

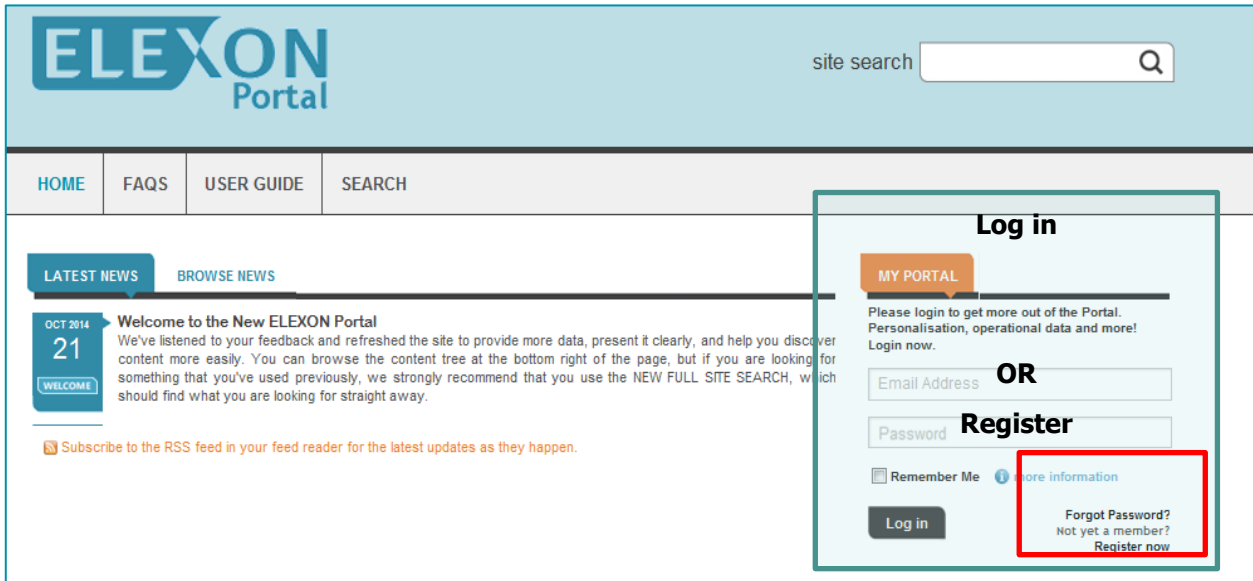


Figure 2: Accessing the ELEXON Portal

2.2 Registration

Follow the instructions on the screen to register.

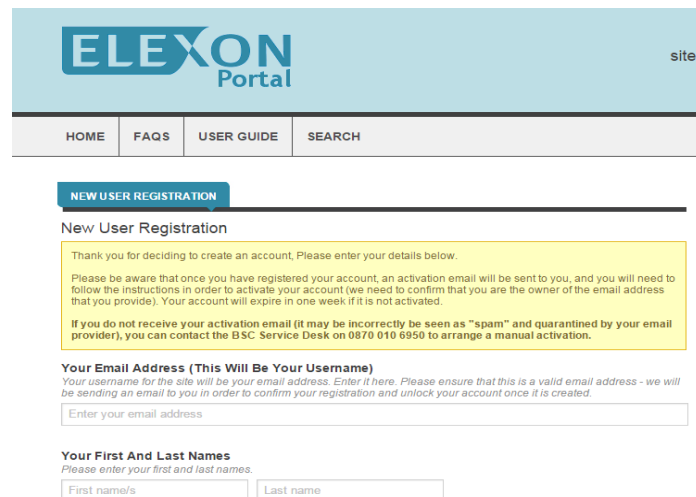


Figure 3: Portal registration screen

Once you have entered all the details, you will be asked to activate the account. A link and an activation code will be sent to the email address you used during the registration process.

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3 The API Key

The API key has three primary functions:

- Identify the program calling the API;
- Serves as authentication code; and
- Monitor and control usage for overall service protection.

Once you have registered, you will have access to a range of content available on the ELEXON Portal. To get your API Key, click on 'my profile' below and you will find the API key under scripting key.

Note: The key shown below is for illustration purposes and is not a valid key.

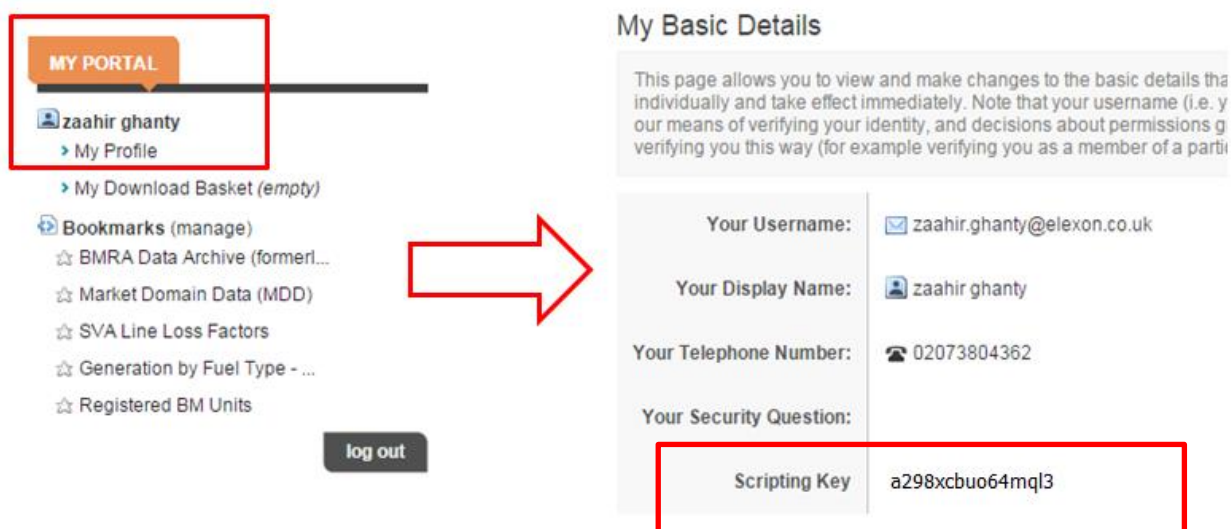


Figure 4: Retrieving API Key

Note: The API Key will also serve as authentication for the Data Push Service

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ACCESSING THE API

4 Data available through APIs

This section of the document details the API design to enable the user to retrieve data from BMRS. In particular highlights the following:

- API Uniform Resource Identifier (URI)
- The search parameters which will be passed as input parameters in the API URIs
- Expected format for returned results

4.1 API Design and Key Features

A sample URI is shown below.



Figure 5: API URL example

- **Host address:** This is the first portion of the URI, and identifies the internet address of the BMRS;
- **Port Number:** The communications endpoint for the API;
- **Report name:** The unique identifier for the report generated by the API;
- **Version number:** The version of the API being called;
- **API Key:** The unique authentication code granted to the users via the ELEXON Portal, giving them rights and permissions to use the API;
- **Search Parameters:** Parameters available to filter the reports, such as Settlement Date and Settlement Period; and
- **Response format:** The file format by which the API will return data, either CSV or XML (with XML being the default).

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Details of API components

For the API, you will use the following:

- HOST: <https://api.bmreports.com>
- PORT: 443. (Do not need to specify, as this is the default port for HTTPS)
- REPORT NAME: Already included in the API flow details
- VERSION NUMBER: v1 or V1 (case insensitive)
- API Key: Your API Key from ELEXON Portal

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5 BMRS API Details

5.1 Transparency Data and REMIT

5.1.1 B1720 –Amount of Balancing Reserves Under Contract

API service details for the flow B1720 is as follows

Service Name	AmountOfBalancingReservesUnderContractService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1720/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Market Agreement Type	String		No	NA	Monthly
Power System Resource Type	String		No	NA	Generation
Imbalance Quantity Direction	String		No	NA	SURPLUS
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Quantity	String		No		200
Document Type	String		No		System total load
Doc Status	String		No		Intermediate
Process Type	String		No		Realised
Resolution	String		No		PT30M
Curve Type	String		No		Point
Active Flag	String		No		Y
Document Id	String		No		NGET-EMFIP-ATL-401

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Document RevNum	String		No		1
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5.1.2 B1730 – Prices Of Procured Balancing Reserves

API service details for the flow B1730 is as follows

Service Name	PricesOfProcuredBalancingReservesService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1730/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<p>1. All the fields are Varchar data type at Database; hence we have assumed the field type has String.</p> <p>2. Default sorting will be used by the application to sort the retrieve data.</p> <p>Default Sorting: Time Series ID (Descending)</p>

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Market Agreement Type	String		No	NA	Monthly
Power System Resource Type	String		No	NA	Generation
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Procurement Price Amount	String		No		661237.297
Price Category	String		No	NA	Excess Balance
Document Type	String		No		System total load
Doc Status	String		No		Intermediate
Process Type	String		No		Realised
Resolution	String		No		PT30M
Curve Type	String		No		Point
Active Flag	String		No		Y
Document Id	String		No		NGET-EMFIP-ATL-401

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Unit Of Currency	String		No		GBP
Document RevNum	String		No		1

5.1.3 B1740 – Accepted Aggregated Offers

API service details for the flow B1740 is as follows

Service Name	AcceptedAggregatedOffersService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1740/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes		AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No		csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Power System Resource Type	String		No	NA	Load
Flow Direction	String		No	NA	Up
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Quantity	String		No		50
Secondary Quantity (MAW)	String		No		50
Document Type	String		No		System total load
Doc Status	String		No		Intermediate
Process Type	String		No		Realised
Resolution	String		No		PT30M
Curve Type	String		No		Point
Active Flag	String		No		Y
Document Id	String		No		NGET-EMFIP-ATL-401
Document RevNum	String		No		1

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5.1.4 B1750 – Activated Balancing Energy

API service details for the flow B1750 is as follows

Service Name	ActivatedBalancingEnergyService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1750/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Power System Resource Type	String		No	NA	Load
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Activation Quantity	String		No		50
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.5 B1760 – Prices Of Activated Balancing Energy

API service details for the flow B1760 is as follows

Service Name	PricesOfActivatedBalancingEnergyService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1760/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Power System Resource Type	String		No	NA	Load
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Activation Price Amount	String		No		661237.297
Price Category	String		No	NA	Excess Balance
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.6 B1770 – Imbalance Prices

API service details for the flow B1770 is as follows

Service Name	ImbalancePricesService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1770/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	Int		No	*/1-50	1
Imbalance Price Amount	String		No		661237.297
Price Category	String		No	NA	Excess Balance
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.7 B1780 – Aggregated Imbalance Volumes

API service details for the flow B1780 is as follows

Service Name	AggregatedImbalanceVolumesService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1780/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<p>1. All the fields are Varchar data type at Database; hence we have assumed the field type has String.</p> <p>2. Default sorting will be used by the application to sort the retrieve data.</p> <p>Default Sorting: Time Series ID (Descending)</p>

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Balance Energy Deviation
Imbalance Quantity Direction	String		No	NA	SURPLUS
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Imbalance Quantity	String		No		661237.297
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

5.1.8 B1790 – Financial Expenses and Income For Balancing

API service details for the flow B1790 is as follows

Service Name	financialExpensesAndIncomeForBalService
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Method	GET
Input URL	http://<host>:<port>/BMRS/B1790/<VersionNo>?APIKey=<APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Comments	1. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Month (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Month	String		Yes	MMM	MAR
ServiceType	String		No	NA	csv/xml/CSV/XML
API Web service – Response					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Financial situation
Year	int		No	YYYY	2014
Month	String		No	MMM	MAR
Financial Price Amount	String		No		661237.297
Price Direction	String		No	NA	Expenditure
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Unit Of Currency	String		No	NA	GBP
Document RevNum	String		No	NA	1

5.1.9 B1810 – CrossBorder Balancing Volumes of Exchanged Bids and Offers

API service details for the flow B1810 is as follows

Service Name	CrossBorderBalancingVolumesOfExchangedBidsandOffersService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1810/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>

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Output Format	XML/CSV
Comments	<p>1. All the fields are Varchar data type at Database; hence we have assumed the field type has String.</p> <p>2. Default sorting will be used by the application to sort the retrieve data.</p> <p>Default Sorting: Time Series ID (Descending)</p>

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Acquiring Domain	String		No	NA	A01=EIC Code
Connecting Domain	String		No	NA	A01=EIC Code
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Quantity	String		No		121212.5
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.10 B1820 – CrossBorder Balancing Prices

API service details for the flow B01820 is as follows

Service Name	CrossBorderBalancingPricesService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1820/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Acquiring Domain	String		No	NA	A01=EIC Code
Connecting Domain	String		No	NA	A01=EIC Code
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Min Price Amount	String		No		1000
Max Price Amount	String		No		999999
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.11 B1830 – Crossborder Balancing Energy Activated

API service details for the flow B01830 is as follows

Service Name	CrossBorderBalancingEnergyActivatedService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1830/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Control Area	String		No	NA	London
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Business Type	String		No	NA	Frequency Containment Reserve
Acquiring Domain	String		No	NA	A01=EIC Code
Connecting Domain	String		No	NA	A01=EIC Code
Flow Direction	String		No	NA	Stable
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Secondary Quantity	String		No		1012112
Document Type	String		No	NA	System total load
Doc Status	String		No	NA	Intermediate
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.12 B0610 – Actual Total Load per Bidding Zone

API service details for the flow B0610 is as follows

Service Name	ActualTotalLoadPerBiddingZoneService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0610/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	101
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Quantity	String		No		200
Document Type	String		No	NA	System total load
Business Type	String		No	NA	Consumption
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1
Secondary Quantity (MAW)	String		No		50

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5.1.13 B0620 – Day-Ahead Total Load Forecast per Bidding Zone

API service details for the flow B0620 is as follows

Service Name	DayAheadTotalLoadForecastPerBiddingZoneService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0620/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Quantity	String		No		200
Document Type	String		No	NA	System total load
Business Type	String		No	NA	Consumption
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1
Secondary Quantity (MAW)	String		No		50

5.1.14 B0630 – Week-Ahead Total Load Forecast per Bidding Zone

API service details for the flow B0630 is as follows

Service Name	WeekAheadTotalLoadForecastPerBiddingZoneService
Method	GET

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Input URL	https://api.bmreports.com/BMRS/B0630/<VersionNo>? APIKey=<APIKey>&Year=<Year>&Week=<Week>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending), Date (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Week	String		Yes	ww(01-52)	22
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Consumption
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Date	Date		No	YYYY-MM-DD	07/05/2014
Quantity (MAW)	String		No		200
Week	int		No	NA	13
Secondary Quantity (MAW)	String		No		50
Document Type	String		No	NA	System total load
Year	int		No	NA	2014
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document RevNum	String		No	NA	2
Document Id	String		No	NA	NGET-EMFIP-ATL-401

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5.1.15 B0640 – Month-Ahead Total Load Forecast Per Bidding Zone

API service details for the flow B0640 is as follows

Service Name	monthAheadTotLoadForecastPerBiddingZoneService
Method	GET
Input URL	http://<host>:<port>/BMRS/B0640/<VersionNo>? APIKey=<APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Comments	1. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Week Commencing (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Month	String		Yes	MMM	MAR
Service Type	String		No	NA	csv/xml/CSV/XML
API Web service – Response					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Consumption
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Secondary Quantity (MAW)	String		No		50
Year	int		No	YYYY	2014
Month	String		No	MMM	MAR
Week Commencing (YYYY-MM-DD)	Date		No	YYYY-MM-DD	2014-01-25
Document Type	String		No	NA	System total load
Document RevNum	String		No	NA	2
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401

Service Name	MonthAheadTotalLoadForecastPerBiddingZoneService
Method	GET

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Input URL	https://api.bmreports.com/BMRS/B0640/<VersionNo>? APIKey=< APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> 1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending), Week Commencing (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Month	String		Yes	MM(01-12)	4
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Consumption
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Secondary Quantity (MAW)	String		No		50
Year	int		No	YYYY	2014
Month	String		No	MM(01-12)	4
Week Commencing (YYYY-MM-DD)	Date		No	YYYY-MM-DD	2014-01-25
Document Type	String		No	NA	System total load
Document RevNum	String		No	NA	2
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401

5.1.16 B0650 – Year Ahead Total Load Forecast per Bidding Zone

API service details for the flow B0650 is as follows

Service Name	YearAheadTotalLoadForecastPerBiddingZoneService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0650/<VersionNo>? APIKey = < APIKey >&Year=<Year>&ServiceType=<xml/csv>
Output Format	XML/CSV

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Comments	<p>1. All the fields are Varchar data type at Database; hence we have assumed the field type has String.</p> <p>2. Default sorting will be used by the application to sort the retrieve data.</p> <p>Default Sorting: Week (Descending)</p>
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API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2013
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Consumption
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No	NA	200
Secondary Quantity (MAW)	String		No		50
Year	int		No	YYYY	2013
Week	int		No		52
Document Type	String		No	NA	System total load
Month Name	String		No	NA	
Process Type	String		No	NA	Realised
Object Aggregation	String		No	NA	Area
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

5.1.17 B0810 – Year Ahead Forecast Margin

API service details for the flow B0810 is as follows

Service Name	YearAheadForecastMarginService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0810/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<p>1. All the fields are Varchar data type at Database; hence we have assumed the field type has String.</p> <p>2. Default sorting will be used by the application to sort the retrieve data.</p> <p>Default Sorting: Time Series ID (Descending)</p>

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API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Consumption
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Secondary Quantity (MAW)	String		No		50
Year	int		No	YYYY	2014
Document Type	String		No	NA	System total load
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Unit of Measure	String		No	NA	Mega watt
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

5.1.18 B1410 – Installed Generation Capacity Aggregated

API service details for the flow B1410 is as follows

Service Name	InstalledGenerationCapacityAggregatedService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1410/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Service Type	String		No	NA	csv/xml

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API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	double		No		200
Year	int		No	YYYY	2014
Power System Resource Type	String		No	NA	Generation
Document Type	String		No	NA	System total load
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
BusinessType	String		No	NA	Consumption
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

5.1.19 B1420 – Installed Generation Capacity per Unit

API service details for the flow B1420 is as follows

Service Name	InstalledGenerationCapacityPerUnitService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1420/<VersionNo>? APIKey = < APIKey >&Year=<Year>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	2014
Service Type	String		No	NA	csv/xml

API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Power System Resource Type	String		No	NA	Generation
Year	int		No	YYYY	2014
BM UNIT ID	String		No	NA	100
Registered Resource EIC Code	String		No	NA	10T-AL-GN-000112
Voltage limit	String		No		100

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NGC BM UNIT ID	String		No	NA	200
Registered Resource Name	String		No	NA	BAGE-2
Document Type	String		No	NA	System total load
Business Type	String		No	NA	Consumption
Process Type	String		No	NA	Realised
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Nominal	String		No	NA	153.2
Implementation Date	String		No	NA	2014-12-20
Decommissioning Date	String		No	NA	2020-01-01

5.1.20 B1430 – Day-Ahead Aggregated Generation

API service details for the flow B1430 is as follows

Service Name	DayAheadAggregatedGenerationService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1430/<VersionNo>? APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Document Type	String		No	NA	System total load
Business Type	String		No	NA	Consumption
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M

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Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

5.1.21 B1440 –Generation forecasts for Wind and Solar

API service details for the flow B1440 is as follows

Service Name	GenerationforecastsForWindAndSolarService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1440/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Process Type (Ascending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Process Type	String		No	NA	Day Ahead
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	double		No		200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No		1
PSR Type	String		No	NA	Generation
Document Type	String		No	NA	System total load
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.22 B1610 – Actual Generation Output per Generation Unit

API service details for the flow B1610 is as follows

Service Name	ActualGenerationOutputPerGenerationUnitService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1610/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&NGCBMUnitID=<NGCBMUnitID>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No	NA	200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
PSR Type	String		No	NA	Generation
Registered Resource EIC Code	String		No	NA	EIC2_A0001
Market Generation Unit EIC Code	String		No	NA	NG_Wales-Generation-121
Market Generation BM Unit	String		No	NA	NA
Market Generation NGC BM Unit	String		No	NA	NA
BM Unit ID	String		No	NA	NA
NGC BM Unit ID	String		No	NA	NA
Document Type	String		No	NA	System total load
Business Type	String		No	NA	Consumption
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.23 B1620 – Actual Aggregated Generation perType

API service details for the flow B1620 is as follows

Service Name	ActualAggregatedGenerationPerTypeService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1620/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
PSR Type	String		No	NA	Generation
Document Type	String		No	NA	System total load
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.24 B1630 – Actual Or Estimated Wind and Solar Power Generation

API service details for the flow B1630 is as follows

Service Name	ActualOrEstimatedWindAndSolarPowerGenerationService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1630/<VersionNo>? APIKey =< APIKey >&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	double		No		200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
PSR Type	String		No	NA	Generation
Document Type	String		No	NA	System total load
Process Type	String		No	NA	Realised
Resolution	String		No	NA	PT30M
Curve Type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1

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5.1.25 B0910 – Expansion and Dismantling Projects

API service details for the flow B0910 is as follows

Service Name	ExpansionandDismantlingProjectsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0910/<VersionNo>? APIKey =< APIKey >&Year=<Year>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	Int	-	Yes	YYYY	2014
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity	String		No		200
Asset Type	String		No	NA	Line
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Location	String		No	NA	London
End Date	Date		No	NA	2014-12-31
BM UNIT Id	String		No	NA	NA
NGC BM Unit id	String		No	NA	NA
MRID(ASSET_EIC_CDE)	String		No	NA	mRID.12345678
Doc Status	String		No	NA	Intermediate
Document Type	String		No	NA	Interconnection network expansion
Process Type	String		No	NA	Network information
Unit of Measure	String		No	NA	Meega Watt
resolution	String		No	NA	P1Y
Curve type	String		No	NA	Point
Active Flag	String		No	NA	Y
Document Id	String		No	NA	DEVUT-NGET-EMFIP-RST
Document Rev Num	String		No	NA	12

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Year	int	No	NA	2014
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5.1.26 B1320 – Congestion Management Measures Countertrading

API service details for the flow B1320 is as follows

Service Name	CongestionManagementMeasuresCountertradingService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1320/<VersionNo>? APIKey=<APIKey>&SettlementDate=<SettlementDate>&Period=<Period>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Settlement Date	String		Yes	YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Quantity(MAW)	String		No		200
Settlement Date	Date		No	YYYY-MM-DD	2014-12-31
Settlement Period	int		No	*/1-50	1
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Flow Direction	String		No	NA	up
Document Type	String		No	NA	Counter trade notice
Process Type	String		No	NA	Realised
Doc Status	String		No	NA	Intermediate
resolution	String		No	NA	PT30M
Curve type	String		No	NA	Sequential fixed size block
Active Flag	String		No	NA	N
Document Id	String		No	NA	DEVUT-NGET-EMFIP-RST
Document Rev Num	String		No	NA	2

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5.1.27 B1330 – Congestion Management Measures Costs of Congestion Management

API service details for the flow B1330 is as follows

Service Name	CongestionManagementMeasuresCostsOfCongestionManagementService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1330/<VersionNo>? APIKey=<APIKey>&Year=<Year>&Month=<Month>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Year	String		Yes	YYYY	1905-07-06
Month	String		Yes	MM	11
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Congestion Price(GBP)	String		No		20012
Year	String		No	YYYY	2014
Month	String		No	MM	Mar
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Document Type	String		No	NA	Congestion costs
Process Type	String		No	NA	Realised
Doc Status	String		No	NA	Intermediate
resolution	String		No	NA	P1M
business type	String		No	NA	Congestion costs
Active Flag	String		No	NA	N
Document Id	String		No	NA	DEVUT-NGET-EMFIP-Testingxx
Document Rev Num	String		No	NA	8

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5.1.28 B0710 – Planned Unavailability of Consumption Units

API service details for the flow B0710 is as follows

Service Name	PlannedUnavailabilityOfConsumptionUnitsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0710/<VersionNo>? StartDate =< StartDate >& EndTime =< EndTime >& StartTime =< StartTime >& APIKey=< APIKey > & EndDate =< EndDate >&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Quantity	String		No		200
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shut down for Maintenance
Document Type	String		No	NA	Load unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-PUCU-00001
Document Rev Num	String		No	NA	2
BM UNIT Id	String		No	NA	NA
AssestEICCode	String		No	NA	registered.12345
NGC BM Unit id	String		No	NA	NA

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5.1.29 B0720 – Changes In Actual Availability Of Consumption Units

API service details for the flow B0720 is as follows

Service Name	ChangesInActualAvailabilityOfConsumptionUnitsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B0720/<VersionNo>?StartDate=<StartDate>&EndTime=<EndTime>&StartTime=<StartTime>&APIKey=<APIKey>&EndDate=<EndDate>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
End date	String		Yes	YYYY-MM-DD	2014-12-31
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shut down for Maintenance
Quantity	String		No		200
Document Type	String		No	NA	Load unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	NA
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-PUCU-00001
Document Rev Num	String		No	NA	2
Assest BM UNIT Id	String		No	NA	NA
AssestEICCode	String		No	NA	registered.12345
NGC BM Unit id	String		No	NA	NA

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5.1.30 B1010 – Planned Unavailability In The Transmission Grid

API service details for the flow B1010 is as follows

Service Name	PlannedUnavailabilityInTheTransmissionGridService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1010/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndTime=<EndTime>&StartTime=<StartTime>&EndDate=<EndDate>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shut down for Maintenance
Asset EIC Code	String		No	NA	EIC_A001
BM Unit Id	String		No	NA	NA
NGC BU Unit ID	String		No	NA	NA
Asset Type	String		No	NA	Line
Name	String		No	NA	NG -Wales_Line-L121
location	String		No	NA	London
Quantity	String		No		200
Document Type	String		No	NA	Transmission unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	NA

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Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-PUCU-00001
Document Rev Num	String		No	NA	1

5.1.31 B1020 – Changes In Actual Availability In The Transmission Grid

API service details for the flow B1020 is as follows

Service Name	ChangesInActualAvailabilityInTheTransmissionGridService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1020/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shut down for Maintenance
Quantity	String		No		200
Asset EIC Code	String		No	NA	EIC_A001
BM Unit Id	String		No	NA	NA
NGC BU Unit ID	String		No	NA	NA
Asset Type	String		No	NA	Line
Name	String		No	NA	NG -Wales_Line-L121

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location	String		No	NA	London
Document Type	String		No	NA	Transmission unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	NA
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-PUCU-00001
Document Rev Num	String		No	NA	1

5.1.32 B1030 – Changes In Actual Availability of OffShore Grid Infrastructure

API service details for the flow B1030 is as follows

Service Name	ChangesInActualAvailabilityOfOffShoreGridInfrastructureService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1030/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shut down for Maintenance
Quantity	String		No		200

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Active Power	String		No		50
Asset EIC Code	String		No	NA	EIC_A001
BM Unit Id	String		No	NA	NA
NGC BU Unit ID	String		No	NA	NA
Name	String		No	NA	NG -Wales_Line-L121
location	String		No	NA	London
Document Type	String		No	NA	Generation unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	NA
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-PUCU-00001
Document Rev Num	String		No	NA	1

5.1.33 B1510 – Planned Unavailability of Generation Units

API service details for the flow B1510 is as follows

Service Name	PlannedUnavailabilityOfGenerationUnitsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1510/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ

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End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	shutdown
Reason Description	String		No	NA	shutdown for Maintenance
Prod Registered Resource Active power	String		No	NA	500
BM Unit Id	String		No	NA	NA
NGC BU Unit ID	String		No	NA	NA
Quantity	String		No		200
Prod Registered Resource EIC CODE	String		No	NA	10T-AL-WS-00015
Prod Registered Resource PSR name	String		No	NA	NG-Wales-Gen-G121
Prod Registered Resource type	String		No	NA	Generation
Prod Registered Resource location	String		No	NA	London
Document Type	String		No	NA	Production unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	Intermediate
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-AAPU-00001t1
Document Rev Num	String		No	NA	2
PSR EIC Code	String		No	NA	BMUnitEIC
PSR NGC BM Unit ID	String		No	NA	T_COTPS-1
PSR BM Uni tID	String		No	NA	COTPS-1
PSR Name	String		No	NA	BMUnitEIC.name

5.1.34 B1520 – Changes In Actual Availability of Generation Units

API service details for the flow B1520 is as follows

Service Name	ChangesInActualAvailabilityOfGenerationUnitsService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/B1520/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>">https://api.bmreports.com/BMRS/B1520/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	<ol style="list-style-type: none"> All the fields are Varchar data type at Database; hence we have assumed the field type has String. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31

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StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Quantity(MAW)	String		No	dddd	200
Prod Registered Resource EIC Code	String		No	NA	10T-AL-WS-00015
Prod Registered Resource name	String		No	NA	NG-Wales-Gen-G121
Prod Registered Resource location	String		No	NA	London
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Prod Registered Resource Active	String		No	NA	50
Prod Registered Resource type	String		No	NA	Generation
Prod Registered PSR EIC Code	String		No	NA	BMUnitEIC1234
Document Type	String		No	NA	Generation unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	Intermediate
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-AAGTYU
Document Rev Num	String		No	NA	2

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5.1.35 B1530 – Planned Unavailability of Production Units

API service details for the flow B1530 is as follows

Service Name	postPlannedUnavailabilityOfProductionUnitsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1530/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Quantity(MAW)	String		No		200
Prod Registered Resource EIC Code	String		No	NA	10T-AL-WS-00015
Prod Registered Resource name	String		No	NA	NG-Wales-Gen-G121
Prod Registered Resource location	String		No	NA	London
Active power	String		No		500
Document Type	String		No	NA	Generation unavailability
Process Type	String		No	NA	Outage information
Doc Status	String		No	NA	Intermediate
Active Flag	String		No	NA	N

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Document Id	String		No	NA	NGET-AAGTYU
Document Rev Num	String		No	NA	2

5.1.36 B1540 – Changes In Actual Availability of Production Units

API service details for the flow B1540 is as follows

Service Name	ChangesInActualAvailabilityOfProductionUnitsService
Method	GET
Input URL	https://api.bmreports.com/BMRS/B1540/<VersionNo>?APIKey=<APIKey>&StartDate=<StartDate>&EndDate=<EndDate>&StartTime=<StartTime>&EndTime=<EndTime>&ServiceType=<xml/csv>
Output Format	XML/CSV
Comments	1. All the fields are Varchar data type at Database; hence we have assumed the field type has String. 2. Default sorting will be used by the application to sort the retrieve data. Default Sorting: Time Series ID (Descending)

API Web service – Request and Response format details:

API Web service – Request					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String		Yes	NA	AP8DA23
Start date	String		Yes	YYYY-MM-DD	2014-12-31
End date	String		Yes	YYYY-MM-DD	2014-12-31
StartTime	String		Yes	mm:hh:ss ZZ	14:00:00 ZZ
EndTime	String		Yes	mm:hh:ss ZZ	15:00:00 ZZ
Service Type	String		No	NA	csv/xml
API Web service – Response					
Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Business Type	String		No	NA	Solar Generation
Time Series ID	String		No	NA	NGET-EMFIP-ATL-0002
Start Date	Date		No	YYYY-MM-DD	2014-12-31
End Date	Date		No	YYYY-MM-DD	2014-12-31
Start Time	Date		No	mm:hh:ss ZZ	14:00:00 ZZ
End Time	Date		No	mm:hh:ss ZZ	15:00:00 ZZ
Reason Code	String		No	NA	Complementary Information
Reason Description	String		No	NA	Infrastructure End of Life
Quantity(MAW)	String		No		200
Prod Registered Resource EIC Code	String		No	NA	10T-AL-WS-00015
Prod Registered Resource name	String		No	NA	NG-Wales-Gen-G121
Prod Registered Resource location	String		No	NA	London
Active power	String		No		500
Document Type	String		No	NA	Production unavailability
Process Type	String		No	NA	Outage information

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Doc Status	String		No	NA	Intermediate
Active Flag	String		No	NA	N
Document Id	String		No	NA	NGET-AAPU-00001t1
Document Rev Num	String		No	NA	2

5.1.37 REMIT Flow – Message List Retrieval

API service details for REMIT Message List Retrieval is as follows

Service Name	MessageListRetrievalService
Method	GET
Input URL	<p>1) Event Start & End</p> <p><code>https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV></code></p> <p>2) Publication Time</p> <p><code>https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&PublicationFrom=<PublicationFrom>&PublicationTo=<PublicationTo>&ServiceType=<xml/XML/csv/CSV></code></p> <p>3) Publication Time with Advanced Filter</p> <p><code>https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&PublicationFrom=<PublicationFrom>&PublicationTo=<PublicationTo>&ServiceType=<xml/XML/csv/CSV>&AffectedUnitID=<AffectedID>&ParticipantID=<ParticipantID>&MessageID=<MessageID>&EventType=<EventType>&FuelType=<FuelType></code></p> <p>4) Event Start with Active Flag</p> <p><code>https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV>&ActiveFlag=<ActiveFlag></code></p> <p>5) Event Start with Advanced Filter</p> <p><code>https://api.bmreports.com/BMRS/MessageListRetrieval/v1?APIKey=<APIKey>&EventStart=<EventStart>&EventEnd=<EventEnd>&ServiceType=<xml/XML/csv/CSV>&AffectedUnitID=<AffectedID>&ParticipantID=<ParticipantID>&MessageID=<MessageID>&EventType=<EventType>&FuelType=<FuelType></code></p> <p>Note: Active Flag is used to retrieve only the latest revisions. Different urls are possible for this service by including optional parameters.</p>
Output Format	XML
Comments	<ol style="list-style-type: none"> All active records are fetched on the basis of mandatory parameters EventStart and EventEnd or PublicationFrom and PublicationTo along with the optional parameters(AffectedUnitID, ParticipantID, MessageID, FuelType, EventType,AssetId) for which AND condition will be applied. ParticipantID is fetched based on complete or Partial value given in request.(Ex: %name%) "Events In Progress" will be fetched based on the following conditions: <ul style="list-style-type: none"> Event Start DateTime is in between "From DateTime" and "To DateTime" OR Event End DateTime is in between "From DateTime" and "To DateTime" OR Event Start DateTime is Before "From DateTime" AND Event End Date time is After "To DateTime")

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API Web service – Request and Response format details:

Field Name	Field Type	Remarks	Mandatory	Sample data
ApiKey	String	The key used to identify and authorize the request.	Yes	
EventStart	String	The start date of the event. This a fixed format string, like YYYY-MM-DD	No	
EventEnd	String	The end date of the event. This a fixed format string, like YYYY-MM-DD	No	
PublicationFrom	String	The start date of the publication. This a fixed format string, like YYYY-MM-DD	No	
PublicationTo	String	The end date of the publication. This a fixed format string, like YYYY-MM-DD	No	
ParticipantId	String	The ID of the participant.	No	
MessageID	String	The ID of the message.	No	
AssetID	String	The ID of the asset.	No	
EventType	String	The type of the event.	No	
FuelType	String	The type of the fuel.	No	
MessageType	String	The type of the message.	No	
UnavailabilityType	String	The type of the unavailability.	No	
ServiceType	String	The ServiceType must be xml/XML/csv/CSV. If not set, defaults to XML.	No	

API Web service – Response

Field Name	Field Type	Remarks	Mandatory	Sample data
Message Id	String			99X0000000000001-ELXP-RMT-00020072
Sequence Id	String			1
Message Heading	String			EXAMGEN
Event Type	String			Transmission unavailability
Published Date Time	String			2017-04-04 13:57:10
Participant ID	String			N_TEST
Asset ID	String			N_TESTASSET9999999
Asset EIC Code	String			51WX123123456789
Affected Unit	String			N_TESTXXXXXXXX
Asset Normal Capacity	String			1000000000.0
Available Capacity	String			1000000000.0
Event Start	String			2017-03-01 00:00:00
Event End	String			2017-09-17 00:00:00
Duration Uncertainty	String			Lorem ipsum dolor
Cause	String			Active
Event Status	String			Dismissed
Related Information	String			Aliquam erat volutpat. Etiam eget varius neque.
Active Flag	String			Y
Revision Number	String			9
Message Type	String			Unavailabilities of Electricity Facilities
Unavailability Type	String			Unplanned

* applicable only for Exelon portal

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Note: Either Publication details(PublicationFrom and PublicationTo) or Event details(EvenStart and EventEnd) should be given in request. If both are not present in request proper message with HTTP code will be sent back as response.

5.1.38 REMIT Flow – Message Detail Retrieval

API service details for REMIT Message Detail Retrieval is as follows

Service Name	MessageDetailRetrievalService
Method	GET
Input URL	<p>1) Message id, Sequence id, Participant id mentioned</p> <p>https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&SequenceId=<SequenceId>&ServiceType=<xml/XML/csv/CSV></p> <p>2) Message id and Participant id mentioned</p> <p>https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&ServiceType=<xml/XML/csv/CSV></p> <p>3) Message id, Participant id mentioned and Active Flag</p> <p>https://api.bmreports.com/BMRS/MessageDetailRetrieval/v1?APIKey=<APIKey>&MessageId=<MessageId>&ParticipantId=<ParticipantID>&ServiceType=<xml/XML/csv/CSV>&ActiveFlag=<ActiveFlag></p>
Output Format	XML

API Web service – Request and Response format details:

Field Name	Field Type	Remarks	Mandatory	Sample data
APIKey	String	The key used to identify and authorize the request.	Yes	
MessageId	String	Message ID	Yes	
ParticipantId	String	Participant ID for the remit message	Yes	
SequenceId	Integer	Sequence Id for the Message	No	
ActiveFlag	String	Active Flag to be given as Y/N	No	
ServiceType	String	The ServiceType must be xml/XML/csv/CSV. If not set, defaults to XML.	No	
API Web service – Response				
Field Name	Field Type	Remarks	Mandatory	Sample data
Message Id	String			99X0000000000001-ELXP-RMT-00020072
Sequence Id	String			1
Message Heading	String			EXAMGEN
Event Type	String			Transmission unavailability
Published Date Time	String			2017-04-04 13:57:10
Participant ID	String			N_TEST
Asset ID	String			N_TESTASSET9999999
Asset EIC Code	String			51WX123123456789
Asset Type	String			Production
Affected Unit	String			T_COTPS-1

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Affected Area	String		N
Fuel Type	String		Fossil Gas
Asset Normal Capacity	String		497.0
Available Capacity	String		466.0
Unavailable Capacity	String		31.0
Event Start	String		2017-03-01 00:00:00
Event End	String		2017-09-17 00:00:00
Duration Uncertainty	String		Lorem ipsum dolor
Cause	String		Active
Event Status	String		Dismissed
Related Information	String		4604 : De-load for operational reasons.
Active Flag	String		Y
Message Type	String		Unavailabilities of Electricity Facilities
Unavailability Type	String		Unplanned
Acer Code	String		A00000000.AA
Bidding Zone	String		10YGB-----A
Outage Profile Segment Start	String		2017-04-04 13:30:00
Outage Profile Segment End	String		2017-04-04 13:40:00
Outage Profile Segment Capacity	String		9999999998
Revision Number	Integer		3

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5.2 Legacy BMRS Data

5.2.1 Temperature Data

API service details for the flow is as follows

Service Name	temperatureDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/TEMP/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/TEMP/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Spot Time (Ascending) Input data flow : TEMP, REFTEMP
Comments	Default Value (if non specified): From Date = Current System Date – 3 months (configurable) ,To Date = Current System Date (i.e. Today)

API Web service – Request and Response format details:

API Webservice – Request - Temperature Data

Logical Field Name	Field Type	Mandatory	Format	Sample data
ApiKey	String	Yes	-	AP8DA23
From Date	String	No	YYYY-MM-DD	2014-12-31
To Date	String	No	YYYY-MM-DD	2014-12-31
Service Type	String	No	-	csv/CSV/xml/XML

API Webservice – Response - Temperature Data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "TEMPERATURE DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
Record Type	String	-	No	TEMP	Fixed string value "TEMP"
Spot (Date)Time	Date	-	No	YYYY-MM-DD	2014-10-13
Temperature Out-Turn	Double	-	No	-	9.5

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Normal Reference Temperature	Double	-	No	-	9.6
Low Reference Temperature	Double	-	No	-	12.5
High Reference Temperature	Double	-	No	-	12.5
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
Record Type	String	-	No	TEMP	Fixed string value "TEMP"
Spot (Date)Time	Date	-	No	YYYYMMDD	20141013
Temperature Out-Turn	Double	-	No	-	9.5
Normal Reference Temperature	Double	-	No	-	9.6
Low Reference Temperature	Double	-	No	-	12.5
High Reference Temperature	Double	-	No	-	12.5

NOTE :

- **Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.**
- **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

Example File:

HDR,TEMPERATURE DATA

TEMP,20081011,18.3,17.2,12.3,22.4

FTR,1

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5.2.2 Bid Offer Level Data

API service details for the flow is as follows

Service Name	bidOfferLevelDataService
Operation Name	bidOfferLevelDataImpl
Method	GET
Input URL	https://api.bmreports.com/BMRS/BOD/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: BM Unit Id (Ascending), BM Offer Pair Number (Descending), From Time (Ascending) Input data flow : BOD <p>For other common description refer section 3.2</p>
Comments	<ol style="list-style-type: none"> Default Value (if none specified): Settlement Date = {as per NRT condition}, Settlement Period = {as per NRT condition}, BM Unit Id = *, BM Unit Type = *, Lead Party Name = *, NGC BM Unit Name = *, (* implies all values) NRT condition: Settlement Date and Settlement Period corresponding to current SP + 2

API Web service – Request and Response format details:

API Webservice – Request – Bid Offer Level Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	String	-	No	1 to 50 or *	12
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Service Type	String	-	No	-	csv/xml/CSV/XML

API Webservice – Response - Bid Offer Level Data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "BID OFFER LEVEL DATA"

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Settlement Date	From input parameter
Settlement Period	From input parameter

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"BOD"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	Date	-	No	YYYY-MM-DD	2000-10-16
Settlement Period	Integer	-	No	-	1
BM Offer Pair Number	Integer	-	No	-	1, -1, etc.
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Integer	-	No	-	0
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Integer	-	No	-	0
Bid Price	Double	-	No	-	0
Offer Price	Double	-	No	-	0
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"BOD"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited

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NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	Date	-	No	YYYYMMDD	20001016
Settlement Period	Integer	-	No	-	1
BM Offer Pair Number	Integer	-	No	-	1, -1, etc.
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Integer	-	No	-	0
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Integer	-	No	-	0
Bid Price	Double	-	No	-	0
Offer Price	Double	-	No	-	0

Example File:

```
HDR,BID OFFER LEVEL DATA,20001016,*
BOD,T_GENSET176, 20001016,1,-2,20001016173000,-10.000,20001016180000,-10.000,10.00000,15.00000
BOD,T_GENSET176, 20001016,2,-1,20001016173000,-10.000,20001016180000,-10.000,20.00000,25.00000
BOD,T_GENSET176, 20001016,3,1,20001016173000,10.000,20001016180000,10.000,30.00000,35.00000
BOD,T_GENSET176, 20001016,4,2,20001016173000,10.000,20001016180000,10.000,40.00000,45.00000
BOD,T_GENSET176, 20001016,5,3,20001016173000,10.000,20001016180000,10.000,50.00000,55.00000
FTR,5
```

5.2.3 Credit Default Notice Data

API service details for the flow is as follows

Service Name	creditDefaultNoticeDataService
Method	GET
Input URL	https://api.bmreports.com/BMRS/CDN/<VersionNo>?APIKey=<APIKey>&FromClearedDate=<FromClearedDate>&ToClearedDate=<ToClearedDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Participant ID (ascending), 2. Entries with a null Cleared Date and Cleared Period (ie. Parties that are still in default) are displayed above entries with non-null Cleared Date and Cleared Period. 3. Input data flow : CDN
Comments	<ol style="list-style-type: none"> 1. Default Value (if none specified): From Cleared Date = Current System Date (i.e. Today) – 30 (configurable) To Cleared Date = NULL

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API Web service – Request and Response format details:

API Webservice – Request - Credit Default Notices

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Cleared Date	String	DateTime	No	YYYY-DD-MM	2014-12-12
To Cleared Date	String	DateTime	No	YYYY-DD-MM	2014-12-12
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Credit Default Notices

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "CREDIT DEFAULT NOTICE DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "CDN"
Participant ID	String	-	No	-	NEEB
Credit Default Level	Integer	-	No	-	1
Entered Default Settlement Date	Date	-	No	YYYY-MM-DD	2003-02-24
Energy Default Settlement Period	Integer	-	No	-	2
Cleared Default Settlement Date	Date	-	No	YYYY-MM-DD	2003-02-24
Cleared Default Settlement Period	Integer	-	No	-	21
Cleared Default Text	String	-	No	-	Credit Cover Percentage <= 75% of credit limit(level default)
Active Flag	String	-	No	-	Y

CSV download service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "CDN"
Participant ID	String	-	No	-	NEEB
Credit Default Level	Integer	-	No	1.1.1.1 -	1
Entered Default Settlement Date	Date	-	No	1.1.1.2 YYYY MMDD	20030224
Energy Default Settlement Period	Integer	-	No	1.1.1.3 -	2
Cleared Default Settlement Date	Date	-	No	1.1.1.4 YYYY MMDD	20030224

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Cleared Default Settlement Period	Integer	-	No	-	21
Cleared Default Text	String	-	No	-	Credit Cover Percentage <= 75% of credit limit(level default)

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

HDR,CREDIT DEFAULT NOTICE DATA

CDN,MANW,2,20130714,4,20141212,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

CDN,MANW,2,20130714,4,20141123,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

CDN,MANW,2,20130714,4,20141124,41,Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

FTR,3

5.2.4 System Warnings

API service details for the flow is as follows

Service Name	systemWarningsService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/SYSWARN/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/SYSWARN/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: Warning Date/Time (Ascending) 2. Input data flow : System Messages
Comments	Default Value (if none specified): From Date= Current System Date – 1 (configurable) To Date= Current System Date

API Web service – Request and Response format details:

API Webservice – Request- SystemWarning

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response- SystemWarning

Header Record:

Report Output Field Mapping	Condition
-----------------------------	-----------

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Record Type	HDR
File Type	SYSTEM WARNING

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
RecordType	String	-	No	-	SYSWARN
Warning Date/Time	Date	-	No	YYYY-MM-DD HH:MM	2014-10-26 22:23
Warning Text	String	-	No	-	Text Data
Active Flag	String	-	No	-	Y

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
RecordType	String	-	No	-	SYSWARN
Warning Date/Time	Date	-	No	YYYYMMDDHHMM	201410262223
Warning Text	String	-	No	-	Text Data

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File

```
HDR,SYSTEM WARNINGS
SYSWARN,20141222130000,From : Power System Manager - National Grid Electricity Control Centre
NOTIFICATION CANCELLATION of GB TRANSMISSION SYSTEM WARNING
The GB Transmission System Warning NOTIFICATION OF INADEQUATE SYSTEM MARGIN issued for the period from 09:00 hrs
to 23:30 hrs on Wednesday 20/12/2014 has been cancelled
The following GB Transmission System Warnings remain in force
none
Notification Issued at 13:15 hrs on 20/12/2014
Issued by John Hughes National Grid Electricity Control Centre
25753732 CANC 20/12/14 20/12/14 20/12/14
FTR,1
```

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5.2.5 Balancing Services Adjustment Action Data

API service details for the flow is as follows

Service Name	balancingServicesAdjustmentActionDataService
Method	GET
Input URL	https://api.bmreports.com/BMRS/DISBSAD/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow : DISBSAD
Comments	<ol style="list-style-type: none"> Default Value : Settlement Date= Current System Date (i.e. Today), Settlement Period = *.

API Web service – Request and Response format details:

API Webservice – Request - BalancingServicesAdjustmentActionData

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2041-08-15
Settlement Period	String	-	No	-	1 to 50
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - BalancingServicesAdjustmentActionData

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string "BALANCING SERVICES ADJUSTMENT DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	DISAG
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-18
Settlement Period	Integer	-	No	-	1
Action Identifier	Integer	-	No	-	6
SO-Flag	String	-	No	-	T
Balancing Services Adjustment Action STOR Provider Flag	String	-	No	-	

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Action Cost	Double	-	No	-	1031.53
Action Volume	Double	-	No	-	150.25
Active Flag	String	-	No	-	Y

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	DISAG
Settlement Date	Date	-	No	YYYYMMDD	20141018
Settlement Period	Integer	-	No	-	1
Action Identifier	Integer	-	No	-	6
SO-Flag	String	-	No	-	T
Balancing Services Adjustment Action STOR Provider Flag	String	-	No	-	
Action Cost	Double	-	No	-	1031.53
Action Volume	Double	-	No	-	150.25

Example File

HDR,BALANCING SERVICES ADJUSTMENT DATA

DISAG,20140906,1,1001,T,0.0,28.0

DISAG,20140906,1,1002,F,0.0,10.0

FTR,2

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5.2.6 Balancing Service Adjustment Data

API service details for the flow is as follows

Service Name	balancingServiceAdjustmentDataService
Method	GET
Input URL	<a href="http://<host>:<port>/BMRS/ NETBSAD /<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>& SettlementPeriod =< SettlementPeriod >&IsTwoDayWindow=<IsTwoDayWindow>&ServiceType=<xml/XML/csv/CSV>">http://<host>:<port>/BMRS/ NETBSAD /<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>& SettlementPeriod =< SettlementPeriod >&IsTwoDayWindow=<IsTwoDayWindow>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : NETBSAD <p>For other common description refer section 3.2</p>
Comments	<ol style="list-style-type: none"> 1. Default Value (if none specified Settlement Date= Current System Date (i.e. Today), Settlement Period = *, isTwoDayWindow=false

API Web service – Request and Response format details:

API Webservice – Request - BalancingServiceAdjustmentData

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2016-02-04
Settlement Period	String	-	No	-	1
isTwoDayWindow	String	-	No	-	false
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - BalancingServiceAdjustmentData

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	BALANCING SERVICE ADJUSTMENT DATA

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	BSAD
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-18
Settlement Period	Integer	-	No	-	1
Net Energy Sell-Price Cost Adjustment – (ESCA) £	Double	-	No	-	60.23
Net Energy Sell-Price Volume Adjustment – (ESVA) MWh	Double	-	No	-	1031.53
Net System Sell-Price Volume Adjustment – (SSVA) MWh	Double	-	No	-	150.25

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Sell-Price Price Adjust – (SPA) £/MWh	Double	-	No	-	12.00
Net Energy Buy-Price Cost Adjustment – (EBCA) £	Double	-	No	-	0.0
Net Energy Buy-Price Volume Adjustment – (EBVA) MWh	Double	-	No	-	0.000
Net System Buy-Price Volume Adjustment – (SBVA) MWh	Double	-	No	-	0.000
Buy-Price Price Adjust (BPA) £/MWh	Double	-	No	-	0.00
Active Flag	String	-	No	-	Y

CSV Download service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	BSAD
Settlement Date	Date	-	No	YYYYMMDD	20141018
Settlement Period	Integer	-	No	-	1
Net Energy Sell-Price Cost Adjustment – (ESCA) £	Double	-	No	-	60.23
Net Energy Sell-Price Volume Adjustment – (ESVA) MWh	Double	-	No	-	1031.53
Net System Sell-Price Volume Adjustment – (SSVA) MWh	Double	-	No	-	150.25
Sell-Price Price Adjust – (SPA) £/MWh	Double	-	No	-	12.00
Net Energy Buy-Price Cost Adjustment – (EBCA) £	Double	-	No	-	0.0
Net Energy Buy-Price Volume Adjustment – (EBVA) MWh	Double	-	No	-	0.000
Net System Buy-Price Volume Adjustment – (SBVA) MWh	Double	-	No	-	0.000
Buy-Price Price Adjust (BPA) £/MWh	Double	-	No	-	0.00

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

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Example File

HDR,BALANCING SERVICES ADJUSTMENT DATA
 BSAD,20140418,1,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0
 BSAD,20140418,2,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0
 BSAD,20140418,3,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0
 FTR,3

5.2.7 Rolling System Frequency

API service details for the flow is as follows

Service Name	rollingSystemFrequencyService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FREQ/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<ServiceType>">https://api.bmreports.com/BMRS/FREQ/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<ServiceType>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Date (Ascending), SpotTime (Ascending) Input data flow : FREQ
Comments	<ol style="list-style-type: none"> Default Value (if none specified): From DateTime = Current System DateTime – 48 Hr (configurable) To DateTime = Current System DateTime

API Web service – Request and Response format details:

API Webservice – Request - Rolling System Frequency

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-10-10 10:10:10
To DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-10-10 10:10:10
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Rolling System Frequency

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM FREQUENCY DATA"

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Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	VD	VD
Date	Date	-	No	YYYY-MM-DD	2014-10-10
Spot Time	Date	-	No	HH:MM:SS	10:42:55
Frequency(Hz)	Double	-	No	Derived data = Sum of demand across all the Fuel type (N0509)	50000.09
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	VD	VD
DateTime	Date	-	No	YYYYMMDDHHMMSS	20141010101010
Frequency(Hz)	Double	-	No	Derived data = Sum of demand across all the Fuel type (N0509)	50000.00

NOTE :

- Also note that, even in cases where 'From Date Time' and 'To Date Time' are defined as optional with default values, either both should be absent or both have to be present.
- FromDateTimeshould not be greater than ToDateTime. If so exception is thrown with appropriate Message.

Example File:

```
HDR, SYSTEM FREQUENCY DATA
FREQ,20080428170500,49.101
FREQ,20080428171000,49.393
FREQ,20080428171500,49.573
FREQ,20080428172000,49.032
FREQ,20080428172500,49.432
FTR,5
```

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5.2.8 Market Index Data

API service details for the flow is as follows

Service Name	marketIndexDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/MID/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&Period=<Period>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/MID/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&Period=<Period>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Data Provider (Alphabetic Ascending), Settlement Date (Ascending), Settlement Period (Ascending) Input data flow : MID
Comments	<ol style="list-style-type: none"> Default Value (if none specified): From Settlement Date= Current System Date – 1 (i.e. Yesterday), To Settlement Date= Current System Date (i.e. Today), Settlement Period = * Data available only for Settlement Periods before the Current Settlement Period.

API Web service – Request and Response format details:

API Webservice Request - Market Index Data

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
From Settlement Date	String	-	No	YYYY-MM-DD	2014-08-10
To Settlement Date	String	-	No	YYYY-MM-DD	2014-08-11
Period	String	-	No	-	1 to 50 or *
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/XML/xml

API Webservice Response - Market Index Data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "MARKET INDEX DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	MID
Data Provider	String	-	No	-	APXMIDP
Settlement Date	Date	-	No	YYYY-MM-DD	2014-08-11
Settlement Period	Integer	-	No	-	1 to 50
Price	Double	-	No	-	24.09
Volume	Double	-	No	-	434.4
Active Flag	String	-	No	-	Y

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CSV Download service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	MID
Data Provider	String	-	No	-	APXMIDP
Settlement Date	Date	-	No	YYYYMMDD	20140811
Settlement Period	Integer	-	No	-	50
Price	Double	-	No	-	24.09
Volume	Double	-	No	-	434.400

NOTE :

- Also note that, even in cases where 'FromSettlementDate' and 'ToSettlementDate' are defined as optional with default values, either both should be absent or both have to be present.
- FromSettlementDate should not be greater than ToSettlementDate. If so exception is thrown with appropriate Message.

Example File:

```
HDR,MARKET INDEX DATA
MID,NNCUK,20001018,33,10.000,40.000
MID,NNCUK,20001018,36,20.000,50.000
MID,NNCUK,20001018,37,10.000,30.000
FTR,3
```

5.2.9 Daily energy Volume Data

API service details for the flow is as follows

Service Name	dailyEnergyVolumeDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DEVINDOD/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DEVINDOD/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none">1. Default Sorting: Settlement Day (Ascending)2. Input data flow : INDOD
Comments	<ol style="list-style-type: none">1. Default Value (if none specified): From Date= Current System date-90 days To Date= Current System Date

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API Web service – Request and Response format details:

API Webservice – Request – DailyEnergyVolumeData

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2013-10-24
To Date	String	-	No	YYYY-MM-DD	2013-10-24
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – DailyEnergyVolumeData

Header Record

Report Output Field Mapping	Condition
Record Type	HDR
File Type	DAILY ENERGY VOLUME DATA

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	INDOD
Settlement Day	Date	-	No	YYYY-MM-DD	2014-07-27
Daily Energy Volume Outturn	Integer	-	No	-	628909
Daily Energy Volume Normal Reference	Integer	-	No	-	594930
Daily Energy Volume Low Reference	Integer	-	No	-	542739
Daily Energy Volume High Reference	Integer	-	No	-	631710
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	INDOD
Settlement Day	Date	-	No	YYYYMMDD	20140727
Daily Energy Volume Outturn	Integer	-	No	-	628909
Daily Energy Volume Normal Reference	Integer	-	No	-	594930
Daily Energy Volume Low Reference	Integer	-	No	-	542739
Daily Energy Volume High Reference	Integer	-	No	-	631710

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NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File

HDR,DAILY ENERGY VOLUME DATA
 INDOD,20081016,43323,40121,38124,47634
 FTR,1

5.2.10 Non BM STOR Instructed Volume Data

API service details for the flow is as follows

Service Name	nonBMStorInstructedVolumeDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NONBM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NONBM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Date(Ascending), Settlement Period (Ascending) 2. Input data flow : NONBM
Comments	<ol style="list-style-type: none"> 1. Default Value (if none specified): From Date = Current System Date – 1, To Date = Current System Date

API Web service – Request and Response format details:

API Webservice – Request - Non - BM Stor Instructed Volumes

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
From Date	String	-	No	YYYY-MM-DD	2014-08-11
To Date	String	-	No	YYYY-MM-DD	2014-08-12
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/XML/xml

API Webservice – Response - Non - BM Stor Instructed Volumes

Header Record :

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NON-BM STOR INSTRUCTED VOLUME DATA"

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Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	NONBM
Settlement Date	Date	-	No	YYYY-MM-DD	2014-08-11
Settlement Period	Integer	-	No	-	1 to 50
SystemZone	String	-	No	-	Always N
NONBM Publish Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-08-10 15:22:00
Instructed Volume (MWh)	Integer	-	No	-	12345
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	NONBM
Settlement Date	Date	-	No	YYYYMMDD	20140811
Settlement Period	Integer	-	No	-	1 to 50
SystemZone	String	-	No	-	Always N
NONBM Publish Time	Date	-	No	YYYYMMDDHHMMSS	20140810152200
Instructed Volume (MWh)	Integer	-	No	-	12345

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

```
HDR, NON-BM STOR INSTRUCTED VOLUME DATA
NONBM,20141109,1,N,20141109003000,12345
NONBM,20141109,2,N,20141109010000,12345
NONBM,20141109,3,N,20141109013000,12345
FTR,3
```

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5.2.11 Applicable Balancing Services Volume Data

API service details for the flow is as follows

Service Name	applicableBalancingServiceVoulmeDataService
Operation Name	applicableBalancingServiceVoulmeDataImpl
Method	GET
Input URL	http://<host>:<port>/BMRS/QAS/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BmUnitId=<BmUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NgcBmUnitName=<NgcBmUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Period (Ascending) 2. Input data flow : QAS For other common description refer section 3.2
Comments	<ol style="list-style-type: none"> 1. Default Value (if none specified): Settlement Date = Current Date-1, Settlement Period = *, One of BM Unit ID / NGC BM Unit ID is mandatory. (* implies all values)

API Web service – Request and Response format details:

API Webservice – Request - Applicable Balancing Services Volume

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD HH:MM:SS	2013-10-24 05:52:45
Settlement Period	String	-	No	1 to 50 or *	12
BM Unit ID	String	-	No	-	-
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	-
Service Type	String	-	No	-	csv/CSV/xml/XML

NOTE: At least one of BM Unit ID or NGC BM Unit Name is mandatory

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API Webservice – Response - Applicable Balancing Services Volume

Header Record:

Report Output Field Mapping		Condition			
Record Type		Fixed string value "HDR"			
File Type		Fixed string value "APPLICABLE BALANCING SERVICES VOLUME"			
Body Record :Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	QAS
BM Unit Id	String	-	No	-	-
BM Unit Type	String	-	No	-	-
Lead Party Name	String	-	No	-	-
NGC BM Unit Name	String	-	No	-	BAGE-1
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-27
Settlement Period	Integer	-	No	-	12
Balancing Service Volume	Double	-	No	-	-
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	QAS
BM Unit Id	String	-	No	-	-
BM Unit Type	String	-	No	-	-
Lead Party Name	String	-	No	-	-
NGC BM Unit Name	String	-	No	-	BAGE-1
Settlement Date	Date	-	No	YYYYMMDD	20140727
Settlement Period	Integer	-	No	-	12
Balancing Service Volume	Double	-	No	-	-

Example File:

```
HDR,APPLICABLE BALANCING SERVICES VOLUME,20001016,1
QAS,T_GENERATE,1,38889.000
QAS,E_EMBED,1,39066.000
FTR,2
```

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5.2.12 Rolling System Demand

API service details for the flow is as follows

Service Name	rollingSystemDemandService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ROLSYSDM/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ROLSYSDM/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Date (Ascending),Time (Ascending) 2. Input data flow : FUELINST
Comments	Default Value (if none specified): From Date = Current Date – 2 days, To Date = Current Date

API Web service – Request and Response format details:

API Webservice – Request - Rolling System Demand

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-10-10 10:10:10
To DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-10-10 10:10:10
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Rolling System Demand

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "ROLLING SYSTEM DEMAND"

Body records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	VD	VD
Date	Date	-	No	YYYY-MM-DD	2013-10-24
Time	Date	-	No	HH:MM:SS	10:42:55
Demand(MW)	Integer	-	No	Derived data = Sum of demand across all the Fuel type (N0509)	50000
Active Flag	String	-	No	-	Y

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CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	VD	VD
Date	String	-	No	YYYYMMDDHHMMSS	20131024101010
Demand(MW)	Integer	-	No	Derived data = Sum of demand across all the Fuel type (N0509)	50000

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.
- For CSV output Date and Time fields are concatenated and displayed

Example File:

```
HDR,SYSTEM DEMAND DATA
VD,20141102055500,22500
VD,20141102055500,22671
VD,20141102055500,22944
FTR,3
```

5.2.13 Peak Wind Generation Forecast

API service details for the flow is as follows

Service Name	peakWindGenerationForecastService
Method	GET
Input URL	https://api.bmreports.com/BMRS/WINDFORPK/<VersionNo>?APIKey=<APIKey>&FromDate=<From Date>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: Date (Ascending) 2. Input data flow : WINDFOR
Comments	1. Default Value (if non specified): From Date = Current System Date (i.e. Today) To Date = Current System Date + 1 (i.e Tomorrow)

API Web service – Request and Response format details:

API Webservice – Request - Peak Wind Generation Forecast

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-10-10
To Date	String	-	No	YYYY-MM-DD	2014-10-10
Service Type	String	-	No	-	xml/XML/csv/CSV

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API Webservice – Response - Peak Wind Generation Forecast

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "PEAK WIND GENERATION FORECAST"

Body Record

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
RecordType	String	-	No	-	WINDFORPK
Day & Date	Date	-	No	YYYY-MM-DD	2014-10-10
Time of Maximum Wind Generation	Date	-	No	HH:MM	14:00
Peak (Max) MW	Integer	-	No	-	123
Total Metered Capacity (MW)	Integer	-	No	-	456
Data Last updated	Date	-	No	YYYY-MM-DD HH:MM	2014-10-10 10:10
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
RecordType	String	-	No	-	WINDFORPK
Day & Date	Date	-	No	YYYYMMDD	20141212
Time of Maximum Wind Generation	Date	-	No	HHMM	1400
Peak (Max) MW	Integer	-	No	-	123
Total Metered Capacity (MW)	Integer	-	No	-	456
Data Last updated	Date	-	No	YYYYMMDDHHMM	201410101010

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

HDR, PEAK WIND GENERATION FORECAST
 WINDFORPK,20140726,2100,697,1333,201407260430
 FTR,1

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5.2.14 Wind Generation Forecast and Out-turn Data

API service details for the flow is as follows

Service Name	windForecastOutTurnService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/WINDFORFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/WINDFORFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Date (Ascending), Settlement Period (Ascending) 2. Input data flow : WINDFOR, FUELHH
Comments	<ol style="list-style-type: none"> 1. If data for a column not available for a row, it is displayed as "NULL" 2. Default Value (if none specified): From Date = Current System Date - 1 , To Date = Current System Date +1

API Web service – Request and Response format details:

API Webservice – Request -Wind Forecast Out-turn

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Wind Forecast Out-turn

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "WIND GENERATION FORECAST AND OUTTURN DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed String "WIND"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Settlement Period	Integer	-	No	-	1
Publication Time (Initial Forecast)	String	-	No	YYYY-MM-DD HH:MM:SS	2008-04-27 17:00:00
Initial forecast Generation (MW)	String	-	No	-	-
Publication Time (Latest Forecast)	String	-	No	YYYY-MM-DD HH:MM:SS	2008-04-27 17:00:00
Latest forecast Generation (MW)	String	-	No	-	-

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Publication Time (Out-turn)	String	-	No	YYYY-MM-DD HH:MM:SS	2008-04-27 17:00:00
Outturn Generation (MW)	String	-	No	-	-
Active Flag	String	-	No	-	Y

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed String "WIND"
Settlement Date	Date	-	No	YYYYMMDD	20140729
Settlement Period	Integer	-	No	-	1
Publication Time (Initial Forecast)	String	-	No	YYYYMMDDHHMM SS	20080427170000
Initial forecast Generation (MW)	String	-	No	-	-
Publication Time (Latest Forecast)	String	-	No	YYYYMMDDHHMM SS	20080427170000
Final forecast Generation (MW)	String	-	No	-	-
Publication Time (Out-turn)	String	-	No	YYYYMMDDHHMM SS	20080427170000
Outturn Generation (MW)	String	-	No	-	-

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

```
HDR,WIND GENERATION FORECAST AND OUTTURN DATA
WIND,20080429,1,20080427170000,1001,20080428170000,1011,20080429003500,1221
WIND,20080429,11,20080427170000,1147,20080428170000,1157,20080429053500,1221
WIND,20080429,17,20080427170000,1205,20080428170000,1200,20080429083500,1221
FTR,3
```

5.2.15 Generation By Fuel Type (Current)

API service details for the flow is as follows:

Service Name	generationByFuelTypeCurrentService
Method	GET
Input URL	https://api.bmreports.com/BMRS/FUELINSTHHCUR/<VersionNo>?APIKey=<APIKey>&FuelType=<FuelType>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: GB Generating Plant (Ascending) 2. Input data flow : FUELINST , FUELHH

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Comments	<ol style="list-style-type: none"> 1. If no value is specified for fuel type then it will imply all Fuel Types 2. Any value from "Fuel Type Set" (Ref: IDD Valid Sets) 3. All negative values are capped to zero. 4. INT which implies interconnectors (INTFR OR INTIRL OR INTNED OR INTEW OR INTNEM)
-----------------	---

API Web service – Request and Response format details:

API Webservice – Request - Generation By Fuel Type (Current)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
FuelType	String	-	No	-	COAL
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Request - Generation By Fuel Type (Current)

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "GENERATION BY FUEL TYPE (CURRENT)"

API Webservice – Request - Generation By Fuel Type (Current)

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
RecordType	String	-	No	-	FUELINSTHHCUR
GB Generating Plant	String	-	No	-	CCGT
Bidding Zone	String	-	No	-	FRANCE
Current MW	Integer	-	No	-	12472
Current %age	Double	-	No	-	39.2
Current Total MW	Integer	-	No	-	31854
Current Total %	Double	-	No	1.1.1.5 -	100
Last Half Hour	Date	-	No	1.1.1.6 YYYY-MM-DD HH:MM:SS	2014-07-29 13:00:00
Last Half Hour MW	Integer	-	No	1.1.1.7 -	12522
Last Half Hour %age	Double	-	No	1.1.1.8 -	39.3
Last Half Hour Total MW	Integer	-	No	-	31825
Last Half Hour Total %	Double	-	No	1.1.1.9 -	100
Last 24 Hours	Date	-	No	1.1.1.10 YYYY-MM-DD HH:MM:SS	2014-07-29 13:00:00

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Last 24 Hours MW	Integer	-	No	1.1.1.11 -	273320
Last 24 Hours %age	Double	-	No	1.1.1.12 -	37.3
Last 24 Hours Total MW	Integer	-	No	1.1.1.13 -	733475
Last 24 Hours Total %	Double	-	No	1.1.1.14 -	100
Data Last Updated	Date	-	No	1.1.1.15 YYYY-MM-DD HH:MM:SS	2014-07-29 13:00:00
Active Flag	String	-	No	-	Y

CSV Download Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
RecordType	String	-	No	-	FUELINSTHHCUR
GB Generating Plant	String	-	No	-	CCGT
Current MW	Integer	-	No	-	12472
Current %age	Decimal	-	No	-	39.2
Current Total MW	Integer	-	No	-	31854
Current Total %	Decimal	-	No	-	100
Last Half Hour	Date	-	No	1.1.1.16 YYYYMMDDHHMMSS	20140729130000
Last Half Hour MW	Integer	-	No	1.1.1.17 -	12522
Last Half Hour %age	Decimal	-	No	1.1.1.18 -	39.3
Last Half Hour Total MW	Integer	-	No	1.1.1.19 -	31825
Last Half Hour Total %	Decimal	-	No	1.1.1.20 -	100
Last 24 Hours	Date	-	No	1.1.1.21 YYYYMMDDHHMMSS	20140729130000
Last 24 Hours MW	Integer	-	No	1.1.1.22 -	273320
Last 24 Hours %age	Decimal	-	No	1.1.1.23 -	37.3
Last 24 Hours Total MW	Integer	-	No	1.1.1.24 -	733475
Last 24 Hours Total %	Decimal	-	No	1.1.1.25 -	100
Data Last Updated	Date	-	No	1.1.1.26 YYYYMMDDHHMMSS	20140729130010

Example File:

HDR,GENERATION BY FUEL TYPE CURRENT

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FUELINSTHHCUR,CCGT,1523,96.9,153,100.0,20141202131502,145,93.9,786,100.0,20141212140002,486,17.9,475,100.0,Y,20141214150000

FUELINSTHHCUR,COAL,78954,78.6,954,100.0,20141102131502,354,96.3,516,100.0,20141112140002,954,82.7,127,100.0Y,20141216150000

FTR,2

5.2.16 Generation by Fuel Type (24H Instant Data)

API service details for the flow is as follows

Service Name	generationByFuelType24HInstantDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FUELINST/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/FUELINST/<VersionNo>?APIKey=<APIKey>&FromDateTime=<FromDateTime>&ToDateTime=<ToDateTime>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow : FUELINST
Comments	<ol style="list-style-type: none"> Default Value (if non specified): From DateTime = Current System DateTime – 24 Hr (configurable), To DateTime = Current System DateTime

API Web service – Request and Response format details:

API Webservice – Request - Generation By Fuel Type (24H Instant Data)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-07-29 13:00:00
To DateTime	String	-	No	YYYY-MM-DD HH:MM:SS	2014-07-29 13:00:00
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Generation By Fuel Type (24H Instant Data)

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "INSTANTANEOUS GENERATION BY FUEL TYPE DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "FUELINST"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-12-12

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Settlement Period	Integer	-	No	-	43
Spot Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2008-04-28 17:05:03
Bidding Zone	String	-	No		FRANCE
Bidding Zone Total Generation	Integer	-	No		12032
CCGT	Integer	-	No		12032
OIL	Integer	-	No	-	12032
COAL	Integer	-	No	-	12032
NUCLEAR	Integer	-	No	-	12032
WIND	Integer	-	No	-	12032
PS	Integer	-	No	-	12032
NPSHYD	Integer	-	No	-	12032
OCGT	Integer	-	No	-	12032
OTHER	Integer	-	No	-	12032
INTFR	Integer	-	No	-	12032
INTIRL	Integer	-	No	-	12032
INTNED	Integer	-	No	-	12032
INTEW	Integer	-	No	-	12032
INTNEM	Integer	-	No		13032
BIOMASS	Integer	-	No	-	12032
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "FUELINST"
Settlement Date	Date	-	No	YYYYMMDD	20080428
Settlement Period	Integer	-	No	-	43
Spot Time	Date	-	No	YYYYMMDDHHMMSS	20080428170503
CCGT	Integer	-	No	-	12032
OIL	Integer	-	No	-	12032
COAL	Integer	-	No	-	12032
NUCLEAR	Integer	-	No	-	12032
WIND	Integer	-	No	-	12032
PS	Integer	-	No	-	12032
NPSHYD	Integer	-	No	-	12032
OCGT	Integer	-	No	-	12032
OTHER	Integer	-	No	-	12032

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INTFR	Integer	-	No	-	12032
INTIRL	Integer	-	No	-	12032
INTNED	Integer	-	No	-	12032
INTEW	Integer	-	No	-	12032
BIOMASS	Integer	-	No	-	12032
INTNEM	Integer		No		12032

Note:

- Also note that, even in cases where 'FromDateTime' and 'ToDateTime' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

HDR, INSTANTANEOUS GENERATION BY FUEL TYPE DATA

FUELINST,20080428,37,20080428170503,18137,1850,0,15315,7308,189,15,15,0,55,152,21,22,234,22

FUELINST,20080428,37,20080428171007,18134,1849,0,15312,7307,181,16,14,0,52,150,13,17,238,22

FTR,2

5.2.17 Half Hourly Outturn Generation by Fuel Type

API service details for the flow is as follows

Service Name	halfHourlyOutTurnGenerationByFuelTypeService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/FUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : FUELHH
Comments	Default Value (if none specified): From Date = Current System Date – 1 (i.e. Yesterday), To Date = Current System Date (i.e. Today)

API Web service – Request and Response format details:

API Webservice – Request - Half Hourly Outturn Generation By Fuel Type Data

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	xml/XML/csv/CSV

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API Webservice – Response - Half Hourly Outturn Generation By Fuel Type Data

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "HALF HOURLY OUTTURN GENERATION BY FUEL TYPE DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "FUELHH"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-12-12
Settlement Period	Integer	-	No	-	43
Bidding Zone	String	-	No		FRANCE
Bidding Zone Total Generation	Integer	-	No		12032
CCGT	Integer	-	No	-	12032
OIL	Integer	-	No	-	12032
COAL	Integer	-	No	-	12032
NUCLEAR	Integer	-	No	-	12032
WIND	Integer	-	No	-	12032
PS	Integer	-	No	-	12032
NPSHYD	Integer	-	No	-	12032
OCGT	Integer	-	No	-	12032
OTHER	Integer	-	No	-	12032
INTFR	Integer	-	No	-	12032
INTIRL	Integer	-	No	-	12032
INTNED	Integer	-	No	-	12032
INTEW	Integer	-	No	-	12032
INTNEM	Integer	-	No	-	12032
BIOMASS	Integer	-	No	-	12032
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	NO	-	Fixed string value "FUELHH"
Settlement Date	Date	-	NO	YYYYMMDD	20080428
Settlement Period	Integer	-	NO	-	43
CCGT	Integer	-	NO	-	12032
OIL	Integer	-	NO	-	12032
COAL	Integer	-	NO	-	12032
NUCLEAR	Integer	-	NO	-	12032
WIND	Integer	-	NO	-	12032

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PS	Integer	-	NO	-	12032
NPSHYD	Integer	-	NO	-	12032
OCGT	Integer	-	NO	-	12032
OTHER	Integer	-	NO	-	12032
INTFR	Integer	-	NO	-	12032
INTIRL	Integer	-	NO	-	12032
INTNED	Integer	-	NO	-	12032
INTEW	Integer	-	NO	-	12032
BIOMASS	Integer	-	NO	-	12032
INTNEM	Integer	-	NO	-	12032

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

HDR, HALF HOURLY OUTTURN GENERATION BY FUEL TYPE DATA

FUELHH,20080428,1,18137,1850,0,15315,7308,189,15,15,0,55,152,12,16,280,16

FUELHH,20080428,2,18134,1849,0,15312,7307,181,16,14,0,52,150,22,16,300,16

FTR,2

5.2.18 Half Hourly Interconnector Outturn Generation

API service details for the flow is as follows

Service Name	halfHourlyInterConnectorOutturnGenerationService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/INTERFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/INTERFUELHH/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Date (Ascending), Settlement Period (Ascending) 2. Input data flow : FUELHH
Comments	<ol style="list-style-type: none"> 1. Default Value (if none specified): From Date= Current System date - 1 To Date= Current System Date

API Web service – Request and Response format details:

API Webservice – Request – HalfHourlyInterConnectorOutturnGeneration

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

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From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31

API Webservice – Response-HalfHourlyInterConnectorOutturnGeneration

Header Record :

Report Output Field Mapping	Condition
Record Type	HDR
File Type	HALF HOURLY INTERCONNECTOR OUTTURN GENERATION

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	INTOUTHH
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-26
Settlement Period	Integer	-	No	-	1
Bidding Zone	String	-	No	-	FRANCE
Bidding Zone Total Generation	Integer	-	No	-	12032
INTFR - External Interconnector flows with France	Integer	-	No	-	1704
INTIRL - External Interconnector flows with Ireland	Integer	-	No	-	202
INTNED - External Interconnector flows with the Netherlands	Integer	-	No	-	852
INTEW - External Interconnector flows with Ireland (East-West)	Integer	-	No	-	278
INTNEM – External Interconnector flows with Belgium (Nemo Link)	Integer	-	No	-	278
Active Flag	String	-	No	-	Y

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CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	INTOUTHH
Settlement Date	Date	-	No	YYYYMMDD	20141026
Settlement Period	Integer	-	No	-	1
INTFR - External Interconnector flows with France	Integer	-	No	-	1704
INTIRL - External Interconnector flows with Ireland	Integer	-	No	-	202
INTNED - External Interconnector flows with the Netherlands	Integer	-	No	-	852
INTEW - External Interconnector flows with Ireland (East-West)	Integer	-	No	-	278
INTNEM – External Interconnector flows with Belgium (Nemo Link)	Integer	-	No	-	278

Example File

```
HDR,HALF HOURLY INTERCONNECTOR OUTTURN GENERATION
INTOUTHH,20080428,1,55,152,23,32,32
INTOUTHH,20080428,2,52,150,22,21,21
FTR,2
```

NOTE :

- **Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.**
- **FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.**

5.2.19 National Output Useable (2-14 Days Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsable2T14DaysAheadService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV

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Description	<ol style="list-style-type: none"> Default Sorting: Settlement Date (Ascending) Input data flow : NOU2T14D
Comments	<p>Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days).</p> <p>Note that in legacy (existing) BMRS this data is available in CSV or XML. The header and footer labels in the snapshot are for that. These are not explicitly listed for Restful API.</p>

API Web service – Request and Response format details:

API Webservice – Request : National Output Usable Data for 2 to 14 days (NOU2T14D)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response : National Output Usable Data for 2 to 14 days (NOU2T14D)

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOU2T14D"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-11-03 14:45:00
System Zone	String	-	No	-	N
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-27
Output Usable	Integer	-	No	-	10045
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOU2T14D"
Publication Time	Date	-	No	YYYYMMDDHHM MSS	20141103144500
System Zone	String	-	No	-	N
Settlement Date	Date	-	No	YYYYMMDD	20140727
Output Usable	Integer	-	No	-	10045

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Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA
 NOU2T14D,20141031151700,N,20141106,63825
 NOU2T14D,20141031151700,N,20141107,62977
 FTR,

5.2.20 National Output Useable by Fuel Type (2-14 Days Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsableByFuelType2T14DaysService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/FOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: Fuel Type (Ascending), Settlement Date (Ascending) 2. Input data flow : FOU2T14D
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days)

API Web service – Request and Response format details:

API Webservice – Request - NationalOutputUsableByFuelType2T14DaysService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - NationalOutputUsableByFuelType2T14DaysService

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA – BY FUEL TYPE"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	FOU2T14D
FuelType	String	-	No	-	COAL
Publication (Date)Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2010-01-02 15:50:00
System Zone	String	-	No	-	Must be 'N'
Bidding Zone	String	-	No	-	FRANCE
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Y

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CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	FOU2T14D
FuelType	String	-	No	-	COAL
Publication (Date)Time	Date	-	No	YYYYMMDDHHMMSS	20100102155000
System Zone	String	-	No	-	Must be 'N'
Settlement Date	Date	-	No	YYYYMMDD	20140729
Output Usable	Integer	-	No	-	100

Example File:

```
HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA – BY FUEL TYPE
FOU2T14D,CCGT,201001021550,N,20100204,1500
FOU2T14D,OIL,201001021550,N,20100204,1500
FOU2T14D,COAL,201001021550,N,20100204,1500
FOU2T14D,NUCLEAR,201001021550,N,20100204,1500
FOU2T14D,BIOMASS,201001021550,N,20171015,788
FTR,5
```

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5.2.21 National Output Useable by Fuel Type and BM Unit (2-14 Days Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsableByBMUnitAndFuelType2T14DaysService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/UOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/UOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: BM Unit Id (Ascending),Fuel Type (Ascending) 2. Input data flow : UOU2T14D
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days)

API Web service – Request and Response format details:

API Webservice - Request - NationalOutputUsableByBMUnitAndFuelType

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice - Response - NationalOutputUsableByBMUnitAndFuelType

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA – BY BM UNIT/INTERCONNECTOR & FUELTYPE"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	UOU2T14D
BM Unit ID	String	-	No	-	BMUNIT01
FuelType	String	-	No	-	CCGT
Publication(Date) Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2010-01-02 15:50:00
System Zone	String	-	No	-	Must be 'N'
Bidding Zone	String	-	No	-	FRANCE
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Output Usable	Integer	-	No	-	10000
Active Flag	String	-	No	-	Y

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CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	UOU2T14D
BM Unit ID	String	-	No	-	BMUNIT01
FuelType	String	-	No	-	CCGT
Publication(Date) Time	Date	-	No	YYYYMMDD HHMMSS	20100102155000
System Zone	String	-	No	-	Must be 'N'
Settlement Date	Date	-	No	YYYYMMDD	20140729
Output Usable	Integer	-	No	-	10000

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA – BY
 BM UNIT/INTERCONNECTOR & FUEL TYPE
 UOU2T14D,BMUNIT01,CCGT,201001021550,N,20100204,150
 UOU2T14D,BMUNIT02,COAL, 201001021550,N,20100204,150
 UOU2T14D,BMUNIT03,OIL, 201001021550,N,20100204,150
 UOU2T14D,INTFR, INTFR, 201001021550,N,20100204,150
 UOU2T14D,E_BMU-01,BIOMASS,201001021550,N,20100204,150
 FTR,4

5.2.22 National Output Useable (2- 52 Weeks Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsable2T52WeeksService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Year (Ascending), Calendar Week Number (Ascending) Input data flow : NOU2T52W
Comments	Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks) Note: The First day of week is considered as 'Monday'.

API Web service – Request and Response format details:

API Webservice – Request - NationalOutputUsable2T52Weeks

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

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API Webservice – Response - NationalOutputUsable2T52Weeks

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	NOU2T52W
Publication Time	Date	-	No	YYYY-MM-DD HH: MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	-	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	NOU2T52W
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20140708105900
System Zone	String	-	No	-	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

```
HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA
NOU2T52W,201004231113,N,18,2010,59588
NOU2T52W,201004231113,N,19,2010,60966
FTR,2
```

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5.2.23 National Output Useable by Fuel type (2-52 Weeks Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsableByFuelType2T52WeeksService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/FOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Year (Ascending), Calendar Week (Ascending), Fuel Type (Ascending) Input data flow : FOU2T52W
Comments	Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks). The First day of week is considered as 'Monday'.

API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 2- 52 Weeks

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response - National Output Usable Data for 2- 52 Weeks

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA –FUEL TYPE

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	FOU2T52W
Fuel Type	String	-	No	-	COAL
Publishing Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-10-16 13:45:00
System Zone	String	-	No	NA	Always 'N'
Bidding Zone	String	-	No	-	FRANCE
Calendar Week Number	Integer	-	No	-	1

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Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	FOU2T52W
Fuel Type	String	-	No	-	COAL
Publishing Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	NA	N
Calendar Week Number	Integer	1.1.1.27 -	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	100

Example File

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA –
 BY FUEL TYPE
 FOU2T52W,CCGT,201001021550,N,3,2010,1500
 FOU2T52W,BIOMASS,201001021550,N,3,2010,1500
 FTR,2

5.2.24 National Output Useable by Fuel Type and BM Unit (2-52 Weeks Ahead)

API service details for the flow is as follows

Service Name	nationalOutputUsableByFuelType&BMUnit2T52WeeksService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/UOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/UOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: BM Unit Id (Ascending),Fuel Type (Ascending), Calendar Year (Ascending), Calendar Week Number (Ascending) Input data flow : UOU2T52W
Comments	Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks). The First day of week is considered as 'Monday'.

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API Web service – Request and Response format details:

API Webservice - Request - NationalOutputUsableByFuelType&BMUnit2T52Weeks

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice - Response - NationalOutputUsableByFuelType&BMUnit2T52Weeks

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA – BY BM UNIT/INTERCONNECTOR & FUEL TYPE

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	UOU2T52W
BM Unit ID	String	-	No	-	BMUNIT01
FuelType	String	-	No	-	COAL
Publishing Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2010-01-02 15:50:00
System Zone	String	-	No	-	Always 'N'
Bidding Zone	String	-	No	-	FRANCE
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	UOU2T52W
BM Unit ID	String	-	No	-	BMUNIT01
FuelType	String	-	No	-	COAL
Publishing Time	Date	-	No	YYYYMMDDHHMMSS	20100102155012
System Zone	String	-	No	-	Always 'N'
Calendar Week	Integer	-	No	-	1

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Number					
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	100

Example File

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA –
 BY BM UNIT/INTERCONNECTOR & FUEL TYPE
 UOU2T52W,BMUNIT01,CCGT,201001021550,N,12,2010,1000
 UOU2T52W,BMUNIT02,COAL,201001021550,N,12,2010,1000
 UOU2T52W,BMUNIT03,BIOMASS,201001021550,N,12,2010,1000
 UOU2T52W,INTFR,INTFR,201001021550,N,12,2010,2500
 FTR,4

5.2.25 National Output Useable Data (1 Year)

API service details for the flow is as follows

Service Name	nationalOutputUsableDataforOneYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending) Input data flow : NOUY1
Comments	Records are retrieved for (systemyear + 1) ,if no data is available for (systemyear + 1) then records are retrieved for previous year(systemyear) .

API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 1 Year

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - National Output Usable Data for 1 Year

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"

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File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1) DATA"
-----------	---

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY1"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY1"
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20140708105900
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

```
HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1)DATA
NOUY1,201004231113,N,1,2011,75907
NOUY1,201004231113,N,2,2011,74731
FTR,2
```

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5.2.26 National Output Useable Data (2 Year)

An API service detail for the flow is as follows

Service Name	nationalOutputUsableDataforTwoYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV ≥">https://api.bmreports.com/BMRS/NOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV ≥
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY2
Comments	Records are retrieved for (systemyear + 2) ,if no data is available for (systemyear + 2) then records are retrieved for previous year(systemyear + 1)

API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 2 Year

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - National Output Usable Data for 2 Year

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2) DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY2"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1

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Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY2"
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20140708105900
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2)DATA
 NOUY2,201004231113,N,1,2012,75907
 NOUY2,201004231113,N,2,2012,74731
 FTR,2

5.2.27 National Output Useable Data (3 Year)

API service details for the flow is as follows

Service Name	nationalOutputUsableDataforThreeYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending) Input data flow : NOUY3
Comments	Records are retrieved for (systemyear + 3) ,if no data is available for (systemyear + 3) then records are retrieved for previous year(systemyear + 2)

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API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 3 Year

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - National Output Usable Data for 3 Year

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3) DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY3"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY3"
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20140708105900
System Zone	String	-	No	N	N

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Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3)DATA

NOUY3,201004231113,N,1,2013,75907

NOUY3,201004231113,N,2,2013,74731

FTR,2

5.2.28 National Output Useable Data (4 Year)

API service details for the flow is as follows

Service Name	nationalOutputUsableDataforFourYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY4
Comments	Records are retrieved for (systemyear + 4) ,if no data is available for (systemyear + 4) then records are retrieved for previous year(systemyear + 3)

API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 4 Year

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - National Output Usable Data for 4 Year

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4) DATA"

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Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY4"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY4"
Publication Time	Date	-	No	YYMMDDHHMMSS	20140708105900
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4)DATA

NOUY4,201004231113,N,1,2014,75907

NOUY4,201004231113,N,2,2014,74731

FTR,2

5.2.29 National Output Useable Data (5 Year)

API service details for the flow is as follows

Service Name	nationalOutputUsableDataforFiveYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/NOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/NOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV

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Description	<ol style="list-style-type: none"> 1. Default Sorting: Calendar Week Number (Ascending) 2. Input data flow : NOUY5
Comments	Records are retrieved for (systemyear + 5) ,if no data is available for (systemyear + 5) then records are retrieved for previous year(systemyear + 4)

API Web service – Request and Response format details:

API Webservice – Request - National Output Usable Data for 5 Year

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/xml/XML/CSV

API Webservice – Response - National Output Usable Data for 5 Year

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5) DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY5"
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NOUY5"
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20140708105900

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System Zone	String	-	No	N	N
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5)DATA
 NOUY5,201004231113,N,1,2015,75907
 NOUY5,201004231113,N,2,2015,74731
 FTR,2

5.2.30 Zonal Output Useable (2- 14 Days Ahead)

API service details for the flow is as follows

Service Name	zoneOutputUsable2T14DaysService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOU2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Date (Ascending), System Zone (Ascending) 2. Input data flow : ZOU2T14D
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days)

API Web service – Request and Response format details:

API Webservice – Request - ZoneOutputUsable2T14Days

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - ZoneOutputUsable2T14Days

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS) DATA

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Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOU2T14D
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-18
Publishing Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2010-01-02 15:50:00
System Zone	String	-	No	B17	B1
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Y

CSV Download service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOU2T14D
Publishing Time	Date	-	No	YYYYMMDDHHMMSS	20100102155000
System Zone	String	-	No	B1 TO B17	B1
Settlement Date	Date	-	No	YYYYMMDD	20141018
Output Usable	Integer	-	No	-	100

Example File

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-14 DAYS)DATA
 ZOU2T14D,201004231113,B1,20100423,13389
 ZOU2T14D,201004231113,B2,20100423,13151
 FTR,2

5.2.31 Zonal Output Useable (2-52 Weeks Ahead)

API service details for the flow is as follows

Service Name	zoneOutputUsable2T52WeeksService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOU2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar year (Ascending), : Calendar Weeks (Ascending), System Zone (Ascending) Input data flow : ZOU2T52W
Comments	<p>Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks).</p> <p>The First day of week is considered as 'Monday'.</p>

API Web service – Request and Response format details:

API Webservice – Request -ZoneOutputUsable2T14Days

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes		AP8DA23
Service Type	String	-	No		xml/XML/csv/CSV

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API Webservice – Response - ZoneOutputUsable2T14Days

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS) DATA

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOU2T52W
Publishing Period Date	Date	-	No	YYYY-MM-DD HH:MM:SS	2010-01-02 15:50:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2015
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Y

CSV Download service :

Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOU2T52W
Publishing Period Date	Date	-	No	YYYYMMDDHHMMSS	20100102155000
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2015
Output Usable	Integer	-	No	-	100

Example File:

HDR,NATIONAL OUTPUT USABLE MW BASED ON OC2 (2-52 WEEKS)DATA
 ZOU2T52W,201004231113,B1,18,2010,11083
 ZOU2T52W,201004231113,B1,19,2010,11793
 FTR,2

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5.2.32 Zonal Output Useable Data for 1 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataOneYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV">https://api.bmreports.com/BMRS/ZOUY1/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV ≥
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) Input data flow : ZOUY1
Comments	Records are retrieved for (systemyear + 1) ,if no data is available for (systemyear + 1) then records are retrieved for previous year(systemyear)

API Web service – Request and Response format details:

API Webservice – Request - ZonalOutputUsableDataOneYearService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response - ZONAL OUTPUT USABLE DATA FOR 1 YEAR

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String "SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 1) DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOUY1
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-09-17 08:39:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120
Active Flag	String	-	No	-	Y

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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOUY1
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120

Example File

```
HDR,ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1)DATA
ZOUY1,201004231113,B1,1,2011,14120
ZOUY1,201004231113,B1,2,2011,13390
FTR,2
```

5.2.33 Zonal Output Useable Data for 2 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataTwoYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOUY2/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) Input data flow : ZOUY2
Comments	Records are retrieved for (systemyear + 2) ,if no data is available for (systemyear + 2) then records are retrieved for previous year(systemyear + 1)

API Web service – Request and Response format details:

API Webservice – Request – ZonalOutputUsableDataTwoYearService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

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API Webservice – Response - ZonalOutputUsableDataTwoYearService

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String "SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 2) DATA"

Body Records

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOUY2
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-09-17 08:39:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOUY2
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120

Example File

```
HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 2)DATA
ZOUY2,201004231113,B1,1,2012,14120
ZOUY2,201004231113,B1,2,2012,13390
FTR,2
```

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5.2.34 Zonal Output Useable Data for 3 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataThreeYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOUY3/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) Input data flow : ZOUY3
Comments	Records are retrieved for (systemyear + 3) ,if no data is available for (systemyear + 3) then records are retrieved for previous year(systemyear + 2)

API Web service – Request and Response format details:

API Webservice – Request – ZonalOutputUsableDataThreeYearService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response - ZonalOutputUsableDataThreeYearService

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String "SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 3) DATA"

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOUY3
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-09-17 08:39:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120
Active Flag	String	-	No	-	Y

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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOUY3
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120

Example File

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 3)DATA
 ZOUY3,201004231113,B1,1,2013,14120
 ZOUY3,201004231113,B1,2,2013,13390
 FTR,2

5.2.35 Zonal Output Useable Data for 4 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataFourYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOUY4/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) Input data flow : ZOUY4
Comments	Records are retrieved for (systemyear + 4) ,if no data is available for (systemyear + 4) then records are retrieved for previous year(systemyear + 3)

API Web service – Request and Response format details:

API Webservice – Request – ZonalOutputUsableDataFourYearService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

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API Webservice – Response - ZonalOutputUsableDataFourYearService

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String "SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 4) DATA"

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOUY4
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-09-17 08:39:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120
Active Flag	String	-	No	-	Y

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOUY4
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120

Example File

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 4)DATA
ZOUY4,201004231113,B1,1,2014,14120
ZOUY4,201004231113,B1,2,2014,13390
FTR,2

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5.2.36 Zonal Output Useable Data for 5 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataFiveYearService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/ZOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/ZOUY5/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 2. Input data flow : ZOUY5
Comments	Records are retrieved for (systemyear + 5) ,if no data is available for (systemyear + 5) then records are retrieved for previous year(systemyear + 4)

API Web service – Request and Response format details:

API Webservice – Request – ZonalOutputUsableDataFiveYearService

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response - ZonalOutputUsableDataFiveYearService

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String "SYSTEM ZONE OUTPUT USABLE MW BASED ON OC2 (YEAR 5) DATA"

Body Records :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	ZOUY5
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-09-17 08:39:00
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120
Active Flag	String	-	No	-	Y

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CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOUY5
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500
System Zone	String	-	No	One of B1-B17	B1
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120

Example File

HDR, ZONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 5)DATA
 ZOUY5,201004231113,B1,1,2015,14120
 ZOUY5,201004231113,B1,2,2015,13390
 FTR,2

5.2.37 Initial Demand Outturn

API service details for the flow is as follows

Service Name	initialDemandOutturnService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/INDOITSDO/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/INDOITSDO/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: INDO, ITSDO.
Comments	<ol style="list-style-type: none"> Default Value (if none specified): From Date= Current System date - 1 To Date= Current System Date

API Web service – Request and Response format details:

API Webservice – Request – InitialDemandOutturn

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response-InitialDemandOutturn

Header Record:

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Report Output Field Mapping	Condition
Record Type	HDR
File Type	INITIAL DEMAND OUTTURN

Body record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-26
Settlement Period	Integer	-	No	-	1
SystemZone	String	-	No	-	N
Record Type	String	-	No	-	INDO
Publish Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-10-25 23:30:00
Demand	Integer	-	No	-	23039
Active Flag	String	-	No	-	Y

CSV Download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	INDO/ITSDO
Settlement Date	Date	-	No	YYYYMMDD	20141026
Settlement Period	Integer	-	No	-	1
SystemZone	String	-	No	-	N
Publish Time	Date	-	No	YYYYMMDDHHMMSS	20141025233000
Demand	Integer	-	No	-	23039

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File

```
HDR,INITIAL DEMAND OUTTURN
INDO,20141109,1,N,20141109003000,27901
INDO,20141109,2,N,20141109010000,27745
INDO,20141109,3,N,20141109013000,27168
FTR,3
```

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5.2.38 Forecast Day and Day Ahead Margin and Imbalance Data

API service details for the flow is as follows

Service Name	forecastDayAndDayAheadMarginAndImbalanceService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/MELIMBALNGC/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/MELIMBALNGC/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : IMBALNGC, MELNGC
Comments	<ol style="list-style-type: none"> 1. Default Values (if none specified): Zone Identifier = N, From Date = Current System Date, To Date = Current System Date + 2

API Web service – Request and Response format details:

API Webservice – Request – ForecastDayAndDayAheadMarginAndImbalance

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Zone Identifier	String	-	No	-	Default data N
From Date	String	-	No	YYYY-MM-DD	2014-08-11
To Date	String	-	No	YYYY-MM-DD	2014-08-12
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - ForecastDayAndDayAheadMarginAndImbalance

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "FORECAST DAY AND DAY AHEAD MARGIN AND IMBALANCE DATA"

Body Record :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Zone ID	String	-	No	-	B1 to B14

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Settlement Date	Date	-	No	-	2014-08-11
Settlement Period	Integer	-	No	-	1 to 50
Record Type	String	-	No	-	Fixed string value -"DAM" or "DAI"
Publish Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-08-10 14:22:00
Margin/ImbalanceValue	Integer	Margin value or Imbalance Value will be present for corresponding record type.	No	-	26223
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Zone ID	String	-	No	-	B1 to B14
Settlement Date	Date	-	No	-	20140811
Settlement Period	Integer	-	No	-	1 to 50
Record Type	String	-	No	-	Fixed string value -"DAM" or "DAI"
Publish Time	Date	-	No	YYYYMMDD HHMMSS	20140810142200
Margin/ ImbalanceValue	Integer	Margin value or Imbalance Value will be present for corresponding record type.	No	-	26223

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

Example File:

HDR,FORECAST DAY AND DAY AHEAD MARGIN AND IMBALANCE DATA

DAM,20001017,1,B1,20001016220000,2623

DAM,20001017,2,B1,20001016220000,2574

DAI,20001017,1,B1,20001016220000,2602

DAI,20001017,2,B1,20001016220000,2556

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FTR,4

5.2.39 Forecast Day and Day Ahead Demand Data

API service details for the flow is as follows

Service Name	forecastDayAndDayAheadDemandDataService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/FORDAYDEM/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/FORDAYDEM/<VersionNo>?APIKey=<APIKey>&ZoneIdentifier=<ZoneIdentifier>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: Settlement Date (Ascending),Settlement Period (Ascending) Input data flow : NDF, TSDF, INDDDEM, INDGEN
Comments	<ol style="list-style-type: none"> Default Value (if none specified): Zone Identifier = N, From Date = Current system Date ,To Date = Current System Date + 2

API Web service – Request and Response format details:

API Webservice – Request - Forecast day and day ahead demand data

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
Zone Identifier	String	-	No	-	Default Zone Identifier = N
From Date	String	-	No	YYYY-MM-DD	2014-08-11
To Date	String	-	No	YYYY-MM-DD	2014-08-12
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/XML/xml

API Webservice – Response - Forecast day and day ahead demand data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "FORECAST DAY AND DAY AHEAD DEMAND DATA"

Body Record

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Zone (Boundary ID)	String	-	No	Always N	N

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Settlement Date	Date	-	No	YYYY-MM-DD	2000-10-10
Settlement Period (S/P)	Integer	-	No	-	10
Record Type	String	-	No	-	DANF
Publish Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 22:00:00
Demand/SPNDemand/SP NGeneration	Integer	-	No	-	9861
Active Flag	String	-	No	-	Y

CSV download Service :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	DANF
Settlement Date	Date	-	No	YYYYMMDD	20141010
Settlement Period (S/P)	Integer	-	No	-	10
Zone (Boundary ID)	String	-	No	Always N	N
Publish Time	Date	-	No	YYYYMMDDHHMMSS	20001016220000
Demand/SPNDemand/SP NGeneration	Integer	-	No	-	9861

Example File:

HDR,FORECAST DAY AND DAY AHEAD DEMAND DATA

DANF,20001017,1,N,20001016220000,9861

DANF,20001017,2,N,20001016220000,8783

DATF,20001017,1,N,20001016220000,9661

DATF,20001017,2,N,20001016220000,8583

DAID,20001017,1,N,20001016220000,9560

DAID,20001017,2,N,20001016220000,8484

DAIG,20001017,1,N,20001016220000,9699

DAIG,20001017,2,N,20001016220000,8612

FTR,8

5.2.40 Demand & Surplus Forecast Data (2-14 Days Ahead)

API service details for the flow is as follows

Service Name	demandAndSurplusForecastData2T14DaysService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DEMMF2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DEMMF2T14D/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>

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Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 2. Input data flow : NDFD, TSDFD, OCNMFD, OCNMFD2.
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days)

API Web service – Request and Response format details:

API Webservice – Request -DemandAndSurplusForecastData2T14Days

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response- DemandAndSurplusForecastData2T14Days

Header Record:

Report Output Field Mapping	Condition
Record Type	HDR
File Type	FORECAST 2 TO 14 DAYS AHEAD DEMAND AND MARGIN DATA

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Settlement Date	Date	-	No	YYYY-MM-DD	2014-10-29
Settlement Period	Integer	-	No	-	1
Boundary ID	String	-	No	-	Always is "N"
Record Type	String	-	No	-	DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for OCNMFD2)
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-10-26 14:45:00
demand/margin	Integer	If Record Type is DSN,DST we will have demand value, or DSM,OCNMFD2 we will have margin value	No	-	45300
Active Flag	String	-	No	-	Y

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
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Settlement Date	Date	-	No	YYYYMMDD	20141029
Settlement Period	Integer	-	No	-	1
Boundary ID	String	-	No	-	Always is "N"
Record Type	String		No	-	DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for OCNMFD2)
Publication Time	Date	-	No	YYYYMMDDHHM MSS	20141026144500
demand/margin	Integer	If Record Type is DSN,DST we will have demand value, or DSM,OCNMFD2 we will have margin value	No		45300

Example File

HDR,FORECAST 2 TO 14 DAYS AHEAD DEMAND AND MARGIN DATA
 DSN,20001019,9,N,20001016150000,41000
 DSN,20001020,11,N,20001016150000,42000
 OCNMFD2,20001010,9,N,20001016150000,17330
 OCNMFD2,20001010,11,N,20001016150000,14288
 FTR,4

5.2.41 Demand & Surplus Forecast Data (2-52 Weeks Ahead)

API service details for the flow is as follows

Service Name	demandAndSurplusForecastData2T52WeeksService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DEMMF2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DEMMF2T52W/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Record Type, 2. Week Number - Records ordered incrementing by this field (wraps from 53 to 1when new year starts)Input data flow: NDFW, TSDFW, OCNMFW, and OCNMFW2.
Comments	Records are retrieved for date ranges between (Currentdate + 2 weeks) to (Currentdate + 52 weeks). The First day of week is considered as 'Monday'.

API Web service – Request and Response format details:

API Webservice – Request DemandAndSurplusForecastData2T52Weeks

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

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API Webservice – Response -DemandAndSurplusForecastData2T52Weeks

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "FORECAST 2 TO 52 WEEKS AHEAD DEMAND AND MARGIN DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
Week Number	Integer	-	No	-	46
Boundary ID	String	-	No	-	Always is "N"
Record Type	String	-	No	-	"WN"(for NDFW) or "WT" (for TSDFW) or "WM" (for OCNMFW) or "OCNMFW2" (for OCNMFW2)
Publication Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2014-10-16 13:45:00
demand/margin	Integer	Depending upon Record type If it is WN,WT we will get Demand value else if it is WM,OCNMFW 2 we will get Margin value.	No	-	49500
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
Week Number	Integer	-	No	-	46
Boundary ID	String	-	No	-	Always is "N"
Record Type	String	-	No	-	"WN"(for NDFW) or "WT" (for TSDFW) or "WM" (for OCNMFW) or "OCNMFW2" (for OCNMFW2)
Publication Time	Date	-	No	YYYYMMDDHHMMSS	20141016134500

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Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
				S	
demand/margin	Integer	Depending upon Record type If it is WN,WT we will get Demand value else if it is WM,OCNMF2 we will get Margin value.	No	-	49500

Example File

HDR,FORECAST 2 TO 52 WEEKS AHEAD DEMAND AND MARGIN DATA
 WN,44,N,20001013170000,36000
 WN,45,N,20001013170000,37000
 OCNMF2,44,N,20001013170000,17830
 OCNMF2,45,N,20001013170000,18610
 FTR,4

5.2.42 SO-SO Prices (SO-SO)

API service details for the flow is as follows

Service Name	sosoPricesService
Operation Name	sosoPricesImpl
Method	GET
Input URL	https://api.bmreports.com/BMRS/SOSOP/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&StartTime=<StartTime>&TradeType=<TradeType>&IsTwoDayWindow=<IsTwoDayWindow>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	1. Default Sorting: Start Time (Ascending) 2. Input data flow : SOSO For other common description refer section 3.2
Comments	Default Value (if none specified): Settlement Date = Current System Date , Start Time = *, Trade Type = ALL, isTwoDayWindow=false

API Web service – Request and Response format details:

API Webservice – Request - SO-SO Prices (SO-SO)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23

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Service Type	String	-	No	-	csv/CSV/xml/XML
Settlement Date	String	-	No	YYYY-MM-DD	2014-12-31
Start time	String	-	No	HH:MM	-
Trade Type	String	-	No	-	ALL, BALIT_NG, BALIT_RTE, BritNed_NG, BritNed_TN, EWIC_EG, EWIC_NG, MOYLE_NG, MOYLE_SN
isTwoDayWindow	String	-	No	-	false

API Webservice – Response – SO-SO Prices (SO-SO)

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String value "SO-SO PRICES"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
Record Type	String	-	No	-	SOSO
Trade Type	String	-	No	-	BALIT_NG
Start Time	Date	-	No	HH:MM:SS	23:00:00
Date	Date	-	No	YYYY-MM-DD	2014-09-08
Trade Direction	String	-	No	A01, A02	A01
Contract Identification	String	-	No	-	NG_20140908_2300_20
Trade Quantity	Integer	-	No	MW	55
Trade Price	Double	-	No	Currency/MWh	57.07
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
Record Type	String	-	No	-	SOSO
Trade Type	String	-	No	-	BALIT_NG
Start Time	Date	-	No	YYYYMMDDHHMMSS	20100422170000
Trade Direction	String	-	No	A01, A02	A01
Contract	String	-	No	-	NG_20140908_2300_20

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Identification					
Trade Quantity	Integer	-	No	MW	55
Trade Price	Double	-	No	Currency/MWh	57.07

Example File

HDR,SO-SO PRICES
 SOSO,BALIT_NG,20100422170000,A01,RTE_20101225_1000_3,12584,24.25
 SOSO,BALIT_NG,20100422180000,A02,RTE_20101225_1000_27,10524,30.16
 FTR,2

Note: If "isTwoDayWindow" input parameter values is "true" then fetching yesterday and today's data if it is "false" then fetching only today's data.

5.2.43 SO SO Trades

API service details for the flow is as follows

Service Name	sosoTradesService
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/SOSOT/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/SOSOT/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> 1. Default Sorting: Warning Date/Time (Ascending) 2. Input data flow : SYS_WARN
Comments	-

API Web service – Request and Response format details:

API Webservice – Request - SO-SO Trades

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	csv/CSV/xml/XML

API Webservice – Response – SO-SO Trades

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed String value "SO-SO TRADES"

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Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
RecordType	String	-	No	-	SOSOT
Warning Date/Time	Date	-	No	YYYY-MM-DD HH:MM	2014-12-31 13:31
Message Text	String	-	No	-	National Grid Notification
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
RecordType	String	-	No	-	SOSOT
Warning Date/Time	Date	-	No	YYYYMMDDHHMM	201412311331
Message Text	String	-	No	-	National Grid Notification

5.2.44 Peak Demand – Yesterday/Today/Tomorrow

API service details for the flow is as follows

Service Name	peakDemandService
Operation Name	peakDemandImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/PKDEMYESTTDYTOM/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/PKDEMYESTTDYTOM/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Date (Ascending) Input data flow : TSDF , ITSDO For other common description refer section 2.3
Comments	-

API Web service – Request and Response format details:

API Webservice – Request - Peak Demand

Logical Field Name	Field Type	Mandatory	Format	Sample data
ApiKey	String	Yes	-	AP8DA23
Service Type	String	No	-	csv/CSV/xml/XML

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API Webservice – Response - Peak Demand

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "PEAK DEMAND DATA – YESTERDAY, TODAY, TOMORROW"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
Record Type	String	-	No	PKDEM	Fixed string value "PKDEM"
Date	Date	-	No	YYYY-MM-DD	2014-10-13
Forecast Demand Peak (MW)	Integer	-	No	-	154236
Forecast Peak Demand Time (local time)	Date	-	No	HH:mm	10:10
Actual Demand Peak (MW)	Integer	-	No	-	154236
Actual Peak Demand Time (local time)	Date	-	No	HH:mm	10:10
Last Updated (GMT time of Forecast, or Actual if Actual showing)	Date	-	No	YYYY-MM-DD HH:mm	2014-10-10 11:10
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
Record Type	String	-	No	PKDEM	Fixed string value "PKDEM"

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Date	Date	-	No	YYYYMMDD	20141013
Forecast Demand Peak (MW)	Integer	-	No	-	154236
Forecast Peak Demand Time (local time)	Date	-	No	HHmm	10:10
Actual Demand Peak (MW)	Integer	-	No	-	154236
Actual Peak Demand Time (local time)	Date	-	No	HHmm	10:10
Last Updated (GMT time of Forecast, or Actual if Actual showing)	Date	-	No	YYYYMMDDHHmm	201410101110
Active Flag	String	-	No	-	Y

5.2.45 Indicative Peak Demand Information (Using Operational Metering Data)

API service details for the flow is as follows

Service Name	indicativePeakDemandInformationService
Operation Name	indicativePeakDemandInformationImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/INDPKDEMINFO/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/INDPKDEMINFO/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Data Set 1 : Date (Ascending) Data Set 2: Week Number (Ascending) Input data flow : ITSDO,TSDFW
Source	MySQL
Comments	-

API Web service – Request and Response format details:

API Webservice – Request – Indicative Peak Demand Information (Using Operational Metering Data)

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Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Indicative Peak Demand Information (Using Operational Metering Data)

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "INDICATIVE PEAK DEMAND INFORMATION (USING OPERATIONAL METERING DATA)"

Body Record : Data Set 1					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "3HIGHDEMSEOFAR"
Date	Date	-	No	YYYY-MM-DD	2014-10-10
GB Demand (MW)	Integer	-	No	-	12888
Time of peak	Date	-	No	HH:MM	14:00
Active Flag	String	-	No	-	Y

Body Record : Data Set 2					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "3HIGHFORDEM"
Week Number	Integer	-	No	-	5
GB Demand (MW)	Integer	-	No	-	12866
Active Flag	String	-	No	-	Y

CSV Download service

Data Set 1					
Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "3HIGHDEMSEOFAR"
Date	Date	-	No	YYYYMMDD	20141010
GB Demand (MW)	Integer	-	No	-	12888
Time of peak	Date	-	No	HHMM	1400
Active Flag	String	-	No	-	Y

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Data Set 2					
Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "3HIGHFORDEM"
Week Number	Integer	-	No	-	5
GB Demand (MW)	Integer	-	No	-	12866
Active Flag	String	-	No	-	Y

5.2.46 System Demand

API service details for the flow is as follows

Service Name	systemDemandService
Operation Name	systemDemandImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/SYSDM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/SYSDM/<VersionNo>?APIKey=<APIKey>&FromDate=<FromDate>&ToDate=<ToDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Settlement Date (Ascending),Settlement Period (Ascending) Input data flow : ITSDO,TSDF For other common description refer section 2.3
Source	MySQL
Comments	Default Value (if none specified): From Date = Current System Date - 1 To Date = Current System Date +1

API Web service – Request and Response format details:

API Webservice – Request –System Demand

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – System Demand

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM DEMAND"

Body Record:

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Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Settlement Period	Integer	-	No	-	25
Record Type	String	-	No	-	Fixed string value "ITSDO"
GB Demand (MW)	Integer	-	No	-	14565
Record Type	String	-	No	-	Fixed string value "TSDF"
GB Demand (MW)	Integer	-	No	-	35469
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Settlement Date	Date	-	No	YYYYMMDD	20140729
Settlement Period	Integer	-	No	-	25
Record Type	String	-	No	-	Fixed string value "ITSDO"
GB Demand (MW)	Integer	-	No	-	14565
Record Type	String	-	No	-	Fixed string value "TSDF"
GB Demand (MW)	Integer	-	No	-	35469
Active Flag	String	-	No	-	Y

NOTE :

- Also note that, even in cases where 'From Date' and 'To Date' are defined as optional with default values, either both should be absent or both have to be present.
- FromDate should not be greater than ToDate. If so exception is thrown with appropriate Message.

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5.2.47 Indicative Triad Demand Information (Using Settlement Metering Data)

API service details for the flow is as follows

Service Name	indicativeTriadDemandInfoService
Operation Name	indicativeTriadDemandInfoImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/INDTRIADEMINFO/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/INDTRIADEMINFO/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Date (Ascending) Input data flow : NA For other common description refer section 2.3
Comments	Note that there may not always be sufficient temporal separation to provide 3 peaks in which case it is shown as NULL

API Web service – Request and Response format details:

API Webservice – Request - Peak Demand

Logical Field Name	Field Type	Mandatory	Format	Sample data
ApiKey	String	Yes	-	AP8DA23
Service Type	String	No	-	csv/CSV/xml/XML

API Webservice – Response - Peak Demand

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "INDICATIVE TRIAD DEMAND INFORMATION (USING SETTLEMENT METERING DATA)"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "TRIADSETTDATA"
Date	Date	-	No	YYYY-MM-DD	2014-07-29
GB Demand (MW)	Integer	-	No	-	14565
Time Of Peak	String	-	No	-	Fixed string value "TSDF"
Data Last Updated	Date	-	No	YYYY-MM-DD HH:mm	2014-07-29 14:10
Active Flag	String	-	No	-	Y

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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "TRIADSETTDATA"
Date	Date	-	No	YYYYMMDD	20140729
GB Demand (MW)	Integer	-	No	-	14565
Time Of Peak	String	-	No	-	Fixed string value "TSDF"
Data Last Updated	Date	-	No	YYYYMMDDHHmm	201407291410
Active Flag	String	-	No	-	Y

5.2.48 Physical Data

API service details for the flow is as follows

Service Name	physicalBMDataService
Operation Name	physicalBMDataImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/PHYBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/PHYBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	<ol style="list-style-type: none"> Default Sorting: BM Unit Id (Ascending), Settlement Period (Ascending) (From Body) , Bid Offer Acceptance ID (Ascending) (applicable only for BOALF body), From Time (Ascending) Input data flow: FPN, QPN, MELS, MILS, BOALF.
Comments	Default Value (if none specified): Settlement Date = {as per NRT criteria}, Settlement Period = {as per NRT criteria}, BM Unit Id = *, BM Unit Type = *, Lead Party Name = *, NGC BM Unit Name = * (* implies all values)

API Web service – Request and Response format details:

API Webservice – Request – Physical BM Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	String	-	No	1 to 50 or *	12
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc

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Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Service Type	String	-	No	-	csv/xml/CSV/XML

API Webservice – Response – Physical BM Data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "PHYSICAL BM DATA"
Settlement Date	From input parameter
Settlement Period	From input parameter

Body Records:

FPN Data :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"PN"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Double	-	No	-	0.000
Active Flag	String	-	No	-	Y

QPN Data :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"QPN"

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BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Double	-	No	-	0.000
Active Flag	String	-	No	-	Y

MEL Data :

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"MEL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Double	-	No	-	0.000
Active Flag	String	-	No	-	Y

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MIL Data :					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"MIL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Double	-	No	-	0.000
Active Flag	String	-	No	-	Y

BOALF Data :					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"BOALF"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Bid Offer Acceptance ID	Integer	-	No	-	2564812568
Acceptance Time	Date	-	No	-	2000-10-16 17:30:00
Deemed Flag	String	-	No	-	N

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SO-Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	
From Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYY-MM-DD HH:MM:SS	2000-10-16 17:30:00
To Level	Double	-	No	-	0.000
Active Flag	String	-	No	-	Y

CSV Download service

FPN Data :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"PN"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Double	-	No	-	0.000

QPN data :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"QPN"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited

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NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Double	-	No	-	0.000

MEL Data :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"MEL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Double	-	No	-	0.000

MIL Data :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"MIL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000

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Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Double	-	No	-	0.000

BOALF Data :

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"BOALF"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Bid Offer Acceptance ID	Integer	-	No	-	2564812568
Acceptance Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
Deemed Flag	String	-	No	-	N
SO-Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	
From Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
From Level	Double	-	No	-	0.000
To Time	Date	-	No	YYYYMMDDHHMMSS	20001016173000
To Level	Double	-	No	-	0.000

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5.2.49 Dynamic Data

API service details for the flow is as follows

Service Name	dynamicDataService
Operation Name	dynamicDataImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DYNBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DYNBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: BM Unit ID Settlement Period (ascending) (from body) Time (ascending) Input data flow : RURE,RDRE,RURI,NDZ,NTB,NTO,MZT,MNZT,SEL,SIL
Comments	Default Value (if none specified): Settlement Date = {as per NRT criteria} Settlement Period = {as per NRT criteria} BM Unit Id = * BM Unit Type = * Lead Party Name = * NGC BM Unit Name = * (* implies all values)

API Web service – Request and Response format details:

API Webservice – Request –Dynamic Data					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	String	-	No	1 to 50 or *	12
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Dynamic Data

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "Dynamic Data"

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Settlement Date	From input parameter
Settlement Period	From input parameter

Body Record:

RURE Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-02-03 14:00
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6
Active Flag	String	-	No	-	Y

RDRE Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "RDRE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01

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Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-02-03 14:00
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6
Active Flag	String	-	No	-	Y

RURI Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURI"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-02-03 14:00
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6
Active Flag	String	-	No	-	Y

RURE Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc

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Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-02-03 14:00
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6
Active Flag	String	-	No	-	Y

NDZ Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDZ"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Notice	Double	-	No	-	2.000
Active Flag	String	-	No	-	Y

NDB Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDB"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01

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BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Notice	Double	-	No	-	2.000
Active Flag	String	-	No	-	Y

NDO Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDO"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Notice	Double	-	No	-	2.000
Active Flag	String	-	No	-	Y

MZT Data					
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "MZT"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited

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NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Period	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

MNZT Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "MNZT"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Period	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

SEL Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "SEL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000

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Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Level	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

SIL Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "SIL"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Level	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

MDV Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDV"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD	2014-03-03 13:00

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				HH:MM	
Level	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

MDP Data

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDP"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYY-MM-DD HH:MM	2014-03-03 13:00
Period	Double	-	No	-	240.000
Active Flag	String	-	No	-	Y

CSV Download service

RURE Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHMSS	20140303130025
Rate 1	Double	-	No	-	254.2

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Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6

RDRE Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "RDRE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHMSS	20140303130025
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6

RURI Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURI"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01

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Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6

RURE Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "RURE"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Rate 1	Double	-	No	-	254.2
Elbow 2	Integer	-	No	-	2541
Rate 2	Double	-	No	-	245.0
Elbow 3	Integer	-	No	-	2456
Rate 3	Double	-	No	-	256.6

NDZ Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDZ"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited

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NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Notice	Double	-	No	-	2.000

NDB Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDB"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Notice	Double	-	No	-	2.000

NDO Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "NDO"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9

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Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Notice	Double	-	No	-	2.000

MZT Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "MZT"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Period	Double	-	No	-	240.000

MNZT Data					
Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "MNZT"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Period	Double	-	No	-	240.000

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SEL Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SEL"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Level	Double	-	No	-	240.000

SIL Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SIL"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM MSS	20140303130025
Level	Double	-	No	-	240.000

MDV Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDV"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy

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					Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHMSS	20140303130025
Level	Double	-	No	-	240.000

MDP Data

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDP"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHMSS	20140303130025
Period	Double	-	No	-	240.000

5.2.50 Derived BM Unit Data

API service details for the flow is as follows

Service Name	derivedBMUnitDataService
Operation Name	derivedBMUnitDataImpl
Method	GET
Input URL	https://api.bmreports.com/BMRS/DERBMDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&BMUnitId=<BMUnitId>&BMUnitType=<BMUnitType>&LeadPartyName=<LeadPartyName>&NGCBMUnitName=<NGCBMUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV

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Description	Default Sorting: BM Unit ID Settlement Period (ascending) (from body) Acceptance ID (applicable only to Body Record Bid Acceptance Volumes and Body Record Offer Acceptance Volumes) Input data flow : BOALF
Comments	Default Value (if none specified): Settlement Date = {as per NRT criteria} Settlement Period = {as per NRT criteria} BM Unit Id = * BM Unit Type = * Lead Party Name = * NGC BM Unit Name = * (* implies all values)

API Web service – Request and Response format details:

API Webservice – Request –Derived BM Unit Data

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	String	-	No	1 to 50 or *	<u>12</u>
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Derived BM Unit Data

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "DERIVED DATA"
Settlement Date	From input parameter
Settlement Period	From input parameter

Body Records:

Bid Acceptance Volume

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "BAV"

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BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
Short Acceptance Flag	String	-	No	-	G, S, E, I, T, etc
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

Offer Acceptance Volume

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "BAV"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G,

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					2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
Short Acceptance Flag (a.k.a. Acceptance Duration)	String	-	No	-	G, S, E, I, T, etc
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

Indicative Period Bid Acceptance Volumes

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPBAV"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01

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BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

Indicative Period Offer Acceptance Volumes

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPOAV"

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BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

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Indicative Period Bid Cashflow

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPBC"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Cashflow for Bid-Offer Pair -5	String	-	No	-	-
Cashflow for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Cashflow for Bid-Offer Pair -3	String	-	No	-	-
Cashflow for Bid-Offer Pair -2	String	-	No	-	-
Cashflow for Bid-Offer Pair -1	String	-	No	-	-
Cashflow for Bid-Offer Pair 1	String	-	No	-	-
Cashflow for Bid-Offer Pair 2	String	-	No	-	-
Cashflow for Bid-Offer Pair 3	String	-	No	-	-
Cashflow for Bid-Offer Pair 4	String	-	No	-	-
Cashflow for Bid-Offer Pair 5	String	-	No	-	-
Cashflow for Bid-Offer Pair 6	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-

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Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

Indicative Period Offer Cashflow

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPOC"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Cashflow for Bid-Offer Pair -5	String	-	No	-	-
Cashflow for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Cashflow for Bid-Offer Pair -3	String	-	No	-	-
Cashflow for Bid-Offer Pair -2	String	-	No	-	-
Cashflow for Bid-Offer Pair -1	String	-	No	-	-
Cashflow for Bid-Offer Pair 1	String	-	No	-	-
Cashflow for Bid-Offer Pair 2	String	-	No	-	-
Cashflow for Bid-Offer Pair 3	String	-	No	-	-
Cashflow for Bid-Offer Pair 4	String	-	No	-	-
Cashflow for Bid-Offer Pair 5	String	-	No	-	-

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Cashflow for Bid-Offer Pair 6	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

CSV Download service

Bid Acceptance Volume

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "BAV"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYYMMDD	20140201
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
Short Acceptance Flag	String	-	No	-	G, S, E, I, T, etc
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-

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Volume Accepted for Bid- Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid- Offer Pair 6	String	-	No	-	-
Total	String	-	No	-	-

Offer Acceptance Volume

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "BAV"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYYM MDD	20140201
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
Short Acceptance Flag (a.k.a. Acceptance Duration)	String	-	No	-	G, S, E, I, T, etc
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-

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Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Total	String	-	No	-	-

Indicative Period Bid Acceptance Volumes

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPBAV"
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Settlement Date	String	-	No	YYYYM MDD	20140201
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-

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Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Y

Indicative Period Offer Acceptance Volumes

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPOAV"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYYM MDD	20140201
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Volume Accepted for Bid-Offer Pair -3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -2	String	-	No	-	-

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Volume Accepted for Bid-Offer Pair -1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 1	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 2	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 3	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 4	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 5	String	-	No	-	-
Volume Accepted for Bid-Offer Pair 6	String	-	No	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-

Indicative Period Bid Cashflow

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPBC"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYYM MDD	20140201
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Cashflow for Bid-Offer Pair -5	String	-	No	-	-
Cashflow for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Cashflow for Bid-Offer	String	-	No	-	-

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Pair -3					
Cashflow for Bid-Offer Pair -2	String	-	No	-	-
Cashflow for Bid-Offer Pair -1	String	-	No	-	-
Cashflow for Bid-Offer Pair 1	String	-	No	-	-
Cashflow for Bid-Offer Pair 2	String	-	No	-	-
Cashflow for Bid-Offer Pair 3	String	-	No	-	-
Cashflow for Bid-Offer Pair 4	String	-	No	-	-
Cashflow for Bid-Offer Pair 5	String	-	No	-	-
Cashflow for Bid-Offer Pair 6	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-

Indicative Period Offer Cashflow

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPOC"
BM Unit Id	String	-	No	-	2_AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Settlement Date	String	-	No	YYYYM MDD	20140201
Settlement Period	Integer	-	No	-	9
Data Type	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Cashflow for Bid-Offer Pair -5	String	-	No	-	-

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Cashflow for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2_AAEPD000
Cashflow for Bid-Offer Pair -3	String	-	No	-	-
Cashflow for Bid-Offer Pair -2	String	-	No	-	-
Cashflow for Bid-Offer Pair -1	String	-	No	-	-
Cashflow for Bid-Offer Pair 1	String	-	No	-	-
Cashflow for Bid-Offer Pair 2	String	-	No	-	-
Cashflow for Bid-Offer Pair 3	String	-	No	-	-
Cashflow for Bid-Offer Pair 4	String	-	No	-	-
Cashflow for Bid-Offer Pair 5	String	-	No	-	-
Cashflow for Bid-Offer Pair 6	String	-	No	-	-
Cashflow for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-

5.2.51 Derived System Wide Data

API service details for the flow is as follows

Service Name	derivedSystemWideDataService
Operation Name	derivedSystemWideDataImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DERSYSDATA/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DERSYSDATA/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Settlement Date (Ascending) Settlement Period (Ascending) Input data flow : Derived

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Comments	Default Value (if none specified): From Settlement Date = Current System Date -1(i.e. Yesterday) To Date = Current System Date (i.e Today) Settlement Period = * (* implies all values)
-----------------	---

API Web service – Request and Response format details:

API Webservice – Request – Derived System-wide Data					
Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
To Settlement Date	String	-	No	YYYY-MM-DD	2014-03-01
Settlement Period	String	-	No	1 to 50 or *	<u>12</u>
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response - Derived System-wide Data

Header Record

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM BUY SELL DATA"

Body Record

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "SSB"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	1 to 50 or *	1
System Sell Price (SSP in £/MWh)	Double	-	No	-	31.60000
System Buy Price (SBP in £/MWh)	Double	-	No	-	38.66000

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BSAD Default	String	-	No	-	F
Price Derivation Code (PDC)	String	-	No	-	F
Reserve Scarcity Price	Double		No	-	15.03210
Indicative Net Imbalance Volume (NIV)	Double	-	No	-	294.983
Sell-Price Price Adjustment (SPA)	Double	-	No	-	0.00
Buy-Price Price Adjustment (BPA)	Double	-	No	-	5.50
Replacement Price (RP in £/MWh)	Double	-	No	-	294.983
Replacement Price Calculation Volume (RPRV in MWh)	Double	-	No	-	294.983
Total System Accepted Offer Volume	Double	-	No	-	294.983
Total System Accepted Bid Volume	Double	-	No	-	294.983
Total System Tagged Accepted Offer Volume	Double	-	No	-	294.983
Total System Tagged Accepted Bid Volume	Double	-	No	-	294.983
System Total Priced Accepted Offer Volume	Double	-	No	-	294.983

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System Total Priced Accepted Bid Volume	Double	-	No	-	294.983
Total System Adjustment Sell Volume	Double	-	No	-	294.983
Total System Adjustment Buy Volume	Double	-	No	-	294.983
Total System Tagged Adjustment Sell Volume	Double	-	No	-	294.983
Total System Tagged Adjustment Buy Volume	Double	-	No	-	294.983

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SSB"
Settlement Date	Date	-	No	YYYYMMDD	20140201
Settlement Period	Integer	-	No	1 to 50 or *	1
System Sell Price (SSP in £/MWh)	Double	-	No	-	31.60000
System Buy Price (SBP in £/MWh)	Double	-	No	-	38.66000
BSAD Default	String	-	No	-	F
Price Derivation Code (PDC)	String	-	No	-	F

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Reserve Scarcity Price	Double		No	-	15.03210
Indicative Net Imbalance Volume (NIV)	Double	-	No	-	294.983
Replacement Price (RP in £/MWh)	Double	-	No	-	294.983
Replacement Price Calculation Volume (RPRV in MWh)	Double	-	No	-	294.983
Total System Accepted Offer Volume	Double	-	No	-	294.983
Total System Accepted Bid Volume	Double	-	No	-	294.983
Total System Tagged Accepted Offer Volume	Double	-	No	-	294.983
Total System Tagged Accepted Bid Volume	Double	-	No	-	294.983
System Total Priced Accepted Offer Volume	Double	-	No	-	294.983
System Total Priced Accepted Bid Volume	Double	-	No	-	294.983
Total System Adjustment Sell Volume	Double	-	No	-	294.983
Total System Adjustment Buy Volume	Double	-	No	-	294.983
Total System Tagged	Double	-	No	-	294.983

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Adjustment Sell Volume					
Total System Tagged Adjustment Buy Volume	Double	-	No	-	294.983

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5.2.52 Detailed System Prices

API service details for the flow is as follows

Service Name	detailedSystemPricesService
Operation Name	detailedSystemPricesImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DETSYSPRICES/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DETSYSPRICES/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending), Index (Ascending), and Component Identifier (Alphabetically sorted). Input data flow : Derived
Comments	Default Value (if none specified): From Settlement Date = Current System Date Settlement Period = Current Settlement Period Note that NO wildcard (*) allowed for Settlement Period.

API Web service – Request and Response format details:

API Webservice – Request –Detailed System Prices

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	String	-	No	-	2
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – Detailed System Prices

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "INDICATIVE SYSTEM PRICE STACK DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
System Price Calculation Summary					
Record Type	String	-	No	-	Fixed as "MAIN PRICE SUMMARY"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	2
Cost	Double	-	No	-	1555.66

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Volume	Double	-	No	-	39.097
Adjuster	Double	-	No	-	0.00
Value	Double	-	No	-	39.78979
Type	String	-	No	-	SBP
Record Type	String	-	No	-	Fixed as "MARKET PRICE SUMMARY"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	2
Cost	Double	-	No	-	1555.66
Volume	Double	-	No	-	39.097
Value	Double	-	No	-	39.78979
Type	String	-	No	-	SBP
Price Derivation Code	String	-	No	-	B
Indicative System Price Offer Stack Data					
Record Type	String	-	No	-	Fixed String "OFFER"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	2
Index (Sequence number)	Integer	-	No	-	12
ID (Component Identifier)	String	-	No	-	T_DINO-5
Acceptance ID	String	-	No	-	58932
Bid Offer Pair ID	String	-	No	-	11
CADL Flag	String	-	No	-	T
SO Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	F
Repriced Indicator	String	-	No	-	F
Bid Offer Original Price	Double	-	No	-	160.00000
Reserve Scarcity Price	Double	-	No	-	120.25
OfferVolume (Stack Item Original Volume)	Double	-	No	-	30.000
DMAT Adjusted Volume	Double	-	No	-	30.000
Arbitrage Adjusted Volume	Double	-	No	-	30.000
NIV Adjusted Volume	Double	-	No	-	0.000
PAR Adjusted Volume	Double	-	No	-	0.000
(Stack Item) Final Price	Double	-	No	-	0.00000
Transmission Loss Multiplier (TLM)	Double	-	No	-	0.000000

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TLM Adjusted Volume (QAPO * TLM)	Double	-	No	-	0.000
TLM Adjusted Cost (QAPO * PO * TLM)	Double	-	No	-	0.00
Totals					
TOTAL of TLM Adjusted Volume	Double	-	No	-	39.097
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66
Indicative System Price Bid Stack Data					
Record Type	String	-	No	-	Fixed String "BID"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	2
Index (Sequence number)	Integer	-	No	-	8
ID (Component Identifier)	String	-	No	-	T_RUGPS-6
Acceptance ID	String	-	No	-	109766
Bid Offer Pair ID	String	-	No	-	-1
CADL Flag	String	-	No	-	F
SO Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	F
Repriced Indicator	String	-	No	-	F
Bid Price (Stack Item Original Price)	Double	-	No	-	30.01000
Reserve Scarcity Price	Double	-	No	-	120.25
Bid Volume (Stack Item Original Volume)	Double	-	No	-	-4.083
DMAT Adjusted Volume	Double	-	No	-	-4.083
Arbitrage Adjusted Volume	Double	-	No	-	-4.083
NIV Adjusted Volume	Double	-	No	-	0.000
PAR Adjusted Volume	Double	-	No	-	0.000
(Stack Item) Final Price	Double	-	No	-	0.00000
Transmission Loss Multiplier (TLM)	Double	-	No	-	0.0000000
TLM Adjusted Volume (QAPB * TLM)	Double	-	No	-	0.000
TLM Adjusted Cost (QAPB * PB * TLM)	Double	-	No	-	0.00
Totals					

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TOTAL of TLM Adjusted Volume	Double	-	No	-	39.097
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
System Price Calculation Summary					
Record Type	String	-	No	-	Fixed as "MAIN PRICE SUMMARY"
Settlement Date	Date	-	No	YYYYMMDD	20150210
Settlement Period	Integer	-	No	-	2
Cost	Double	-	No	-	1555.66
Volume	Double	-	No	-	39.097
Adjuster	Double	-	No	-	0.00
Value	Double	-	No	-	39.78979
Type	String	-	No	-	SBP
Record Type	String	-	No	-	Fixed as "MARKET PRICE SUMMARY"
Settlement Date	Date	-	No	YYYYMMDD	20150210
Settlement Period	Integer	-	No	-	2
Cost	Double	-	No	-	1555.66
Volume	Double	-	No	-	39.097
Adjuster	Double	-	No	-	0.00
Value	Double	-	No	-	39.78979
Type	String	-	No	-	SBP
Price Derivation Code	String	-	No	-	B
Indicative System Price Offer Stack Data					
Record Type	String	-	No	-	Fixed String "OFFER"
Settlement Date	Date	-	No	YYYYMMDD	20150210
Settlement Period	Integer	-	No	-	2
Index (Sequence number)	Integer	-	No	-	12
ID (Component Identifier)	String	-	No	-	T_DINO-5
Acceptance ID	String	-	No	-	58932
Bid Offer Pair ID	String	-	No	-	11
CADL Flag	String	-	No	-	T
SO Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	F

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Repriced Indicator	String	-	No	-	F
Bid Offer Original Price	Double	-	No	-	160.00000
Reserve Scarcity Price	Double	-	No	-	120.25
OfferVolume (Stack Item Original Volume)	Double	-	No	-	30.000
DMAT Adjusted Volume	Double	-	No	-	30.000
Arbitrage Adjusted Volume	Double	-	No	-	30.000
NIV Adjusted Volume	Double	-	No	-	0.000
PAR Adjusted Volume	Double	-	No	-	0.000
(Stack Item) Final Price	Double	-	No	-	0.00000
Transmission Loss Multiplier (TLM)	Double	-	No	-	0.0000000
TLM Adjusted Volume (QAPO * TLM)	Double	-	No	-	0.000
TLM Adjusted Cost (QAPO * PO * TLM)	Double	-	No	-	0.00
Totals					
TOTAL of TLM Adjusted Volume	Double	-	No	-	39.097
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66
Indicative System Price Bid Stack Data					
Record Type	String	-	No	-	Fixed String "BID"
Settlement Date	Date	-	No	YYYYMMDD	20150210
Settlement Period	Integer	-	No	-	2
Index (Sequence number)	Integer	-	No	-	8
ID (Component Identifier)	String	-	No	-	T_RUGPS-6
Acceptance ID	String	-	No	-	109766
Bid Offer Pair ID	String	-	No	-	-1
CADL Flag	String	-	No	-	F
SO Flag	String	-	No	-	F
STOR Provider Flag	String	-	No	-	F
Repriced Indicator	String	-	No	-	F
Bid Price (Stack Item Original Price)	Double	-	No	-	30.01000
Reserve Scarcity Price	Double	-	No	-	120.25

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Bid Volume (Stack Item Original Volume)	Double	-	No	-	-4.083
DMAT Adjusted Volume	Double	-	No	-	-4.083
Arbitrage Adjusted Volume	Double	-	No	-	-4.083
NIV Adjusted Volume	Double	-	No	-	0.000
PAR Adjusted Volume	Double	-	No	-	0.000
(Stack Item) Final Price	Double	-	No	-	0.00000
Transmission Loss Multiplier (TLM)	Double	-	No	-	0.0000000
TLM Adjusted Volume (QAPB * TLM)	Double	-	No	-	0.000
TLM Adjusted Cost (QAPB * PB * TLM)	Double	-	No	-	0.00
Totals					
TOTAL of TLM Adjusted Volume	Double	-	No	-	39.097
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66

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5.2.53 Market Depth Data

API service details for the flow is as follows

Service Name	marketDepthDataService
Operation Name	marketDepthDataImpl
Method	GET
Input URL	https://api.bmreports.com/BMRS/MKTDEPTHDATA/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Settlement Date (ascending) Settlement Period (ascending) Input data flow : IMBALNGC
Comments	Default Value (if none specified): Return all rows From Settlement Date = Current System Date -1(i.e. Yesterday)

API Web service – Request and Response format details:

API Webservice – Request –Market Depth Data

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – Market Depth Data

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "MARKET DEPTH DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDD"
Settlement Date	Date	-	No	YYYY-MM-DD	2015-01-26
Settlement Period	Integer	-	No	-	2
IMBALNGC	Double	-	No	-	80.000
Total Offer Volume	Double	-	No	-	48515.000
Total Bid Volume	Double	-	No	-	-57826.000

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Total Accepted Offer Volume	Double	-	No	-	1079.542
Total Accepted Bid Volume	Double	-	No	-	-1028.994
Total Unpriced Accepted Offer Volume	Double	-	No	-	0.000
Total Unpriced Accepted Bid Volume	Double	-	No	-	0.000
Total Priced Accepted Offer Volume	Double	-	No	-	815.462
Total Priced Accepted Bid Volume	Double	-	No	-	-1062.853
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "MDD"
Settlement Date	Date	-	No	YYYYMMDD	20150126
Settlement Period	Integer	-	No	-	2
IMBALNGC	Double	-	No	-	80.000
Total Offer Volume	Double	-	No	-	48515.000
Total Bid Volume	Double	-	No	-	-57826.000
Total Accepted Offer Volume	Double	-	No	-	1079.542
Total Accepted Bid Volume	Double	-	No	-	-1028.994
Total Unpriced Accepted Offer Volume	Double	-	No	-	0.000
Total Unpriced Accepted Bid Volume	Double	-	No	-	0.000
Total Priced Accepted Offer Volume	Double	-	No	-	815.462
Total Priced Accepted Bid Volume	Double	-	No	-	-1062.853

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5.2.54 Latest Acceptances

API service details for the flow is as follows

Service Name	latestAcceptancesService
Operation Name	latestAcceptancesImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/LATESTACCEPTS/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/LATESTACCEPTS/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Acceptance Time (descending) From Time (ascending) Input data flow : BOALF
Comments	-

API Web service – Request and Response format details:

API Webservice – Request –Latest Acceptances

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – Latest Acceptances

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "LATEST ACCEPTANCE DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "LAD"
BM Unit Id	String	-	No	-	T_FFES-4
Acceptance Number	Integer	-	No	-	2558965231
Acceptance Time	Date	-	No	YYYY-MM-DD HH:MM	2015-01-26 00:47
From Time	Date	-	No	YYYY-MM-DD HH:MM	2015-01-26 23:47
Active Flag	String	-	No	-	Y

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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "LAD"
BM Unit Id	String	-	No	-	T_STAY-2
Acceptance Number	Integer	-	No	-	2558965231
Acceptance Time	Date	-	No	YYYYMMDDHHMMSS	20150126004700
From Time	Date	-	No	YYYYMMDDHHMMSS	20150126004700

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5.2.55 Historic Acceptances

API service details for the flow is as follows

Service Name	historicAcceptancesService
Operation Name	historicAcceptancesImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/HISTACCEPTS/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/HISTACCEPTS/<VersionNo>?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Acceptance Time (ascending) Input data flow : BOALF
Comments	Default Value (if none specified): From Settlement Date = Current System Date Settlement Period = Current Settlement Period

API Web service – Request and Response format details:

API Webservice – Request –Historic Acceptances

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Settlement Date	String	-	No	YYYY-MM-DD	2014-12-31
Settlement Period	String	-	No	1 to 50	2
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – Historic Acceptances

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "ACCEPTANCE DATA"
Settlement Date	From input parameter
Settlement Period	number between 1 and 50 or * if selecting a full day's data (from input parameter)

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "HAD"
BM Unit Id	String	-	No	-	T_STAY-2
Acceptance Number	Integer	-	No	-	2558965231
Acceptance Time	Date	-	No	YYYY-MM-DD HH:MM	2015-01-26 00:47

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Offer Price	Double	-	No	-	58.00000
Bid Price	Double	-	No	-	35.00000
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "HAD"
BM Unit Id	String	-	No	-	T_STAY-2
Acceptance Number	Integer	-	No	-	2558965231
Acceptance Time	Date	-	No	YYYYMMDDHHMMSS	20150126004700
Offer Price	Double	-	No	-	58.00000
Bid Price	Double	-	No	-	35.00000

NOTE:

- Note that **NO** wildcard (*) allowed for Settlement Period.

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5.2.56 System Messages

API service details for the flow is as follows

Service Name	systemMessagesService
Operation Name	systemMessagesImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/SYSMSG/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/SYSMSG/<VersionNo>?APIKey=<APIKey>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Acceptance Time (descending) Input data flow : NA
Source	MySQL
Destination	Third party software
Data Source	Reporting Database
Database Table Name	T_BMRS_SYS_MSGS
Comments	-

API Web service – Request and Response format details:

API Webservice – Request –System Messages

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – System Messages

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM MESSAGES"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "SYSMSG"
Message Date Time	Date	-	No	YYYY-MM-DD HH:MM	2015-02-25 07:21
Message Type	String	-	No	-	MIDNP

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Message Text	String	-	No	-	Market Index Data for Settlement Day 20150225 period 14 from Automated Power Exchange (UK) (APXMIDP) was not received. Price and volume defaulted to 0.
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SYSMG"
Message Date Time	Date	-	No	YYYYMMDDHHMMSS	20150126004700
Message Type	String	-	No	-	MIDNP
Message Text	String	-	No	-	Market Index Data for Settlement Day 20150225 period 14 from Automated Power Exchange (UK) (APXMIDP) was not received. Price and volume defaulted to 0.

5.2.57 BM Unit Search

API service details for the flow is as follows

Service Name	bmUnitSearchService
Operation Name	bmUnitSearchImpl
Method	GET
Input URL	https://api.bmreports.com/BMRS/BMUNITSEARCH/<VersionNo>?APIKey=<APIKey>&BmUnitId=<BmUnitId>&BmUnitType=<BmUnitType>&LeadPartyName=<LeadPartyName>&NgcBmUnitName=<NgcBmUnitName>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: BM Unit ID
Source	MySQL
Destination	Third party software
Data Source	Reporting Database
Database Table Name	T_BMRS_BM_UNT_SRCH
Comments	Default Value (if none specified): BM Unit Id = * BM Unit Type = * Lead Party Name = * NGC BM Unit Name = * (* implies all values)

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API Web service – Request and Response format details:

API Webservice – Request –BM Unit Search

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
BM Unit Id	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response –BM Unit Search

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "BM UNIT DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "BMUD"
BM Unit ID	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "BMUD"
BM Unit ID	String	-	No	-	2__AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	-	No	-	G, S, E, I, T, etc
Lead Party Name	String	-	No	-	AES New Energy Limited
NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2__AAEPD000

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5.2.58 System Warning (Today/Tomorrow)

API service details for the flow is as follows

Service Name	systemWarningTodayTomorrowService
Operation Name	systemWarningTodayTomorrowImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/SYSWARNTDYTOM<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/SYSWARNTDYTOM<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting: Times applicable (descending); separately for TODAY and TOMORROW Input data flow : System Warning flow from NGC
Source	MySQL
Comments	-

API Web service – Request and Response format details:

API Webservice – Request –System Warning (Today/Tomorrow)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – System Warning (Today/Tomorrow)

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM WARNINGS IN FORCE"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
System warnings in force TODAY					
Record Type	String	-	No	-	Fixed string value "SYSWARNTDY "
Today	Date	-	No	YYYY-MM-DD	2008-07-02
Warning in Force	String	-	No	-	TDY
Times applicable	String	-	No	-	NONE
Active Flag	String	-	No	-	Y
System warnings in force TOMORROW					

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Record Type	String	-	No	-	Fixed string value "SYSWARNTOM"
Today	Date	-	No	YYYY-MM-DD	2008-07-02
Warning in Force	String	-	No	-	TDY
Times applicable	String	-	No	-	NONE
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
System warnings in force TODAY					
Record Type	String	-	No	-	Fixed string value "SYSWARNTDY "
Today	Date	-	No	YYYYMMDD	20080702
Warning in Force	String	-	No	-	TDY
Times applicable	String	-	No	-	NONE
System warnings in force TOMORROW					
Record Type	String	-	No	-	Fixed string value "SYSWARNTOM"
Today	Date	-	No	YYYYMMDD	20080702
Warning in Force	String	-	No	-	TOM
Times applicable	String	-	No	-	NONE

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5.2.59 System Warning (Historic)

API service details for the flow is as follows

Service Name	systemWarningHistoricService
Operation Name	systemWarningHistoricImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/HISTSYSWARN/<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/HISTSYSWARN/<VersionNo>?APIKey=<APIKey&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting : Times applicable (descending) Warning Date Time; Input data flow : System Warning flow from NGC
Source	MySQL
Comments	-

API Web service – Request and Response format details:

API Webservice – Request –System Warning (Historic)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
Service Type	String	-	No	-	xml/XML/csv/CSV

API Webservice – Response – System Warning (Historic)

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "SYSTEM WARNING - HISTORIC"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "SYSWARNHIST"
Warning Type	String	-	No	-	-
Effective From	Date	-	No	-	-
Time Effective From	Date	-	No	-	-
Shortfall (MW)	Double	-	No	-	-
Date Warning Cancelled	Date	-	No	-	-
Time Warning Cancelled	Date	-	No	-	-

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Active Flag	String	-	No	-	Y
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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SYSWARNHIST"
Warning Type	String	-	No	-	-
Effective From	Date	-	No	-	-
Time Effective From	Date	-	No	-	-
Time Effective To	Date	-	No	-	-
Shortfall (MW)	Double	-	No	-	-
Date Warning Cancelled	Date	-	No	-	-
Time Warning Cancelled	Date	-	No	-	-
Active Flag	String	-	No	-	Y

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5.2.60 Loss of Load Probability

API service details for the flow is as follows

Service Name	lossOfLoadProbabilityService
Operation Name	lossOfLoadProbabilityImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/LOLPDRM/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/LOLPDRM/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting : 1. Settlement Date (ascending) 2. Settlement Period (ascending)
Source	MySQL
Comments	Default Value (if none specified; this is the today/tomorrow web page case): From Settlement Date = Current System Date To Settlement Date = Current System Date + 2

API Web service – Request and Response format details:

API Webservice – Request – Loss of Load Probability

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Settlement Date	String	-	No	YYYY-MM-DD	2014-12-30
To Settlement Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	Xml/XML/csv/CSV

API Webservice – Response – Loss of Load Probability

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "LOLP"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "LOLPDRM"
Settlement Date	Date	-	No	YYYY-MM-DD	2014-12-31
Settlement Period	Integer	-	No	-	2
LOLP_1200	Double	-	No	-	0.977100
DRM_1200	Double	-	No	-	0.10000

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LOLP_8h	Double	-	No	-	0.978500
DRM_8h	Double	-	No	-	0.24000
LOLP_4h	Double	-	No	-	0.981600
DRM_4h	Double	-	No	-	0.18000
LOLP_2h	Double	-	No	-	0.981200
DRM_2h	Double	-	No	-	0.14000
LOLP_1h	Double	-	No	-	0.981000
DRM_1h	Double	-	No	-	0.12000
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "LOLPDRM"
Settlement Date	Date	-	No	YYYYMMDD	20141231
Settlement Period	Integer	-	No	-	2
LOLP_1200	Double	-	No	-	0.977100
DRM_1200	Double	-	No	-	0.10000
LOLP_8h	Double	-	No	-	0.978500
DRM_8h	Double	-	No	-	0.24000
LOLP_4h	Double	-	No	-	0.981600
DRM_4h	Double	-	No	-	0.18000
LOLP_2h	Double	-	No	-	0.981200
DRM_2h	Double	-	No	-	0.14000
LOLP_1h	Double	-	No	-	0.981000
DRM_1h	Double	-	No	-	0.12000

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5.2.61 Demand Control Instructions

API service details for the flow is as follows

Service Name	demandControlInstructionService
Operation Name	demandControlInstructionImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/DEMCI/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/DEMCI/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<FromSettlementDate>&ToSettlementDate=<ToSettlementDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting : 1. Demand Control ID (ascending) 2. Instruction Sequence (ascending)
Source	MySQL
Comments	Default Value (if none specified; this is the today/tomorrow web page case): From Settlement Date = Current System Date To Settlement Date = Current System Date + 1

API Web service – Request and Response format details:

API Webservice – Request – Demand Control Instruction

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
From Settlement Date	String	-	No	YYYY-MM-DD	2014-12-30
To Settlement Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	Xml/XML/csv/CSV

API Webservice – Response – Demand Control Instruction

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "DCONTROL"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "DEMCI"
Demand Control ID	String	-	No	-	DCID1
Affected DSO	Integer	-	No	-	1
Instruction Sequence	String	-	No	-	SPOW

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Demand Control Event Flag	String	-	No	-	L
Time From	Date	-	No	YYYY-MM-DD HH:MM	2014-12-31 10:00
Time To	Date	-	No	YYYY-MM-DD HH:MM	2014-12-31 10:00
Demand Control Level	Double	-	No	-	10.00000
SO-Flag	String	-	No	-	F
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "DEMCI"
Demand Control ID	String	-	No	-	DCID1
Affected DSO	Integer	-	No	-	1
Instruction Sequence	String	-	No	-	SPOW
Demand Control Event Flag	String	-	No	-	L
Time From	Date	-	No	YYYYMMDDHHMM	201412311000
Time To	Date	-	No	YYYYMMDDHHMM	201412311000
Demand Control Level	Double	-	No	-	10.00000
SO-Flag	String	-	No	-	F

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5.2.62 STOR Availability Window

API service details for the flow is as follows

Service Name	storAvailabilityWindowService
Operation Name	storAvailabilityWindowImpl
Method	GET
Input URL	<a href="https://api.bmreports.com/BMRS/STORAW/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<SettlementDate>&ServiceType=<xml/XML/csv/CSV>">https://api.bmreports.com/BMRS/STORAW/<VersionNo>?APIKey=<APIKey>&FromSettlementDate=<SettlementDate>&ServiceType=<xml/XML/csv/CSV>
Output Format	XML/CSV
Description	Default Sorting : 1. STOR Availability From Date (ascending)
Source	MySQL
Comments	Default Value (if none specified; this is the current web page case): From Settlement Date = Current System Date

API Web service – Request and Response format details:

API Webservice – Request – STOR Availability Window

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	-	Yes	-	AP8DA23
FromSettlement Date	String	-	No	YYYY-MM-DD	2014-12-31
Service Type	String	-	No	-	Xml/XML/csv/CSV

API Webservice – Response – STOR Availability Window

Header Record:

Report Output Field Mapping	Condition
Record Type	Fixed string value "HDR"
File Type	Fixed string value "STORAW DATA"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "STORAW"
Document ID	Integer	-	No	-	67
Season Year	Date	-	No	YYYY-MM-DD	2014-12-31
Season Number	Integer	-	No	-	2
STOR Availability From Date	Date	-	No	YYYY-MM-DD HH:MM	2014-12-31 10:00

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STOR Availability To Date	Date	-	No	YYYY-MM-DD HH:MM	2014-12-31 10:00
Weekday Start Time	Date	-	No	HH:MM	10:00
Weekday End Time	Date	-	No	HH:MM	10:00
Non-weekday Start Time	Date	-	No	HH:MM	10:00
Non-weekday End Time	Date	-	No	HH:MM	10:00
Active Flag	String	-	No	-	Y

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "STORAW"
Document ID	Integer	-	No	-	67
Season Year	Date	-	No	YYYYMMDD	20141231
Season Number	Integer	-	No	-	2
STOR Availability From Date	Date	-	No	YYYYMMDDHHMM	201412311000
STOR Availability To Date	Date	-	No	YYYYMMDDHHMM	201412311000
Weekday Start Time	Date	-	No	HHMM	10:00
Weekday End Time	Date	-	No	HHMM	10:00
Non-weekday Start Time	Date	-	No	HHMM	10:00
Non-weekday End Time	Date	-	No	HHMM	10:00

5.2.63 Trading Unit Delivery Mode

API service details for P321 TRADINGUNIT is as follows

Service Name	TRADINGUNITService
Operation Name	TRADINGUNITImpl
Method	GET
Input URL	1) Settlement Date & Settlement Period mentioned:

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	<p>https://api.bmreports.com/BMRS/TRADINGUNIT/V1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&ServiceType=<xml/XML/csv/CSV></p> <p>2) Settlement date, Settlement Period, trading unit type and trading unit name mentioned:</p> <p>https://api.bmreports.com/BMRS/TRADINGUNIT/v1?APIKey=<APIKey>&SettlementDate=<SettlementDate>&SettlementPeriod=<SettlementPeriod>&TradeType=<TradeType>&TradeName=<TradeName>&ServiceType=<xml/XML/csv/CSV></p>
Output Format	XML/CSV

API Web service – Request and Response format details:

API Webservice – Request – Trading Unit

Logical Field Name	Field Type	Remarks	Mandatory	Sample data
APIKey	String		Yes	AP8DA23
ServiceType	String		No	xml/csv/XML/CSV
SettlementDate	String		Yes	2017-04-04
SettlementPeriod	Int		Yes	2
TradeType	String		No	Sole
TradeName	String		No	E_EMBEDD18

API Webservice – Response– Trading Unit

Logical Field Name	Field Type	Remarks	Mandatory	Sample data
Trading Unit Type	String		No	Sole
Settlement Date	String		No	2017-01-29
Settlement Period	Int		No	2
Settlement Runtype	String		No	R2
Trading Unit Name	String		No	BALGAN TRADING UNIT
Delivery Mode	String		No	Offtaking
Import Volume	String		No	1111.111
Export Volume	String		No	2222.111
Net Volume	String		No	1111.000
Active Flag	String		No	Y

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DATA PUSH SERVICE

6 Data Push Service

BMRS contains a new capability that allows the near real-time publishing of information from the BMRS system to industry participants. This section explains how participants can connect to this service and describes the information available.

7 Connectivity

The BMRS Data Push Service supports a variety of Cross Language Clients and Protocols from Java, C, C++, C#, Ruby, Perl, Python, PHP to name a few. We also support several protocols for communication to the BMRS Data Push Service. These are as follows:

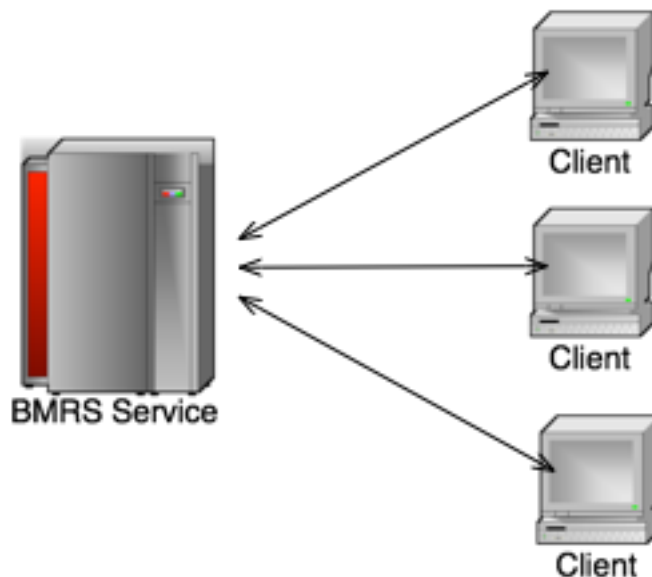
Protocol	Brief description
OpenWire	OpenWire is the default cross language wire protocol that is supported by the BMRS Data Push Service.
Stomp	The BMRS Data Push Service implements version 1.1 of the STOMP wire protocol. STOMP is the Simple (or Streaming) Text Orientated Messaging Protocol. STOMP provides an interoperable wire format so that STOMP clients can communicate with any STOMP message broker to provide easy and widespread messaging interoperability among many languages, platforms and brokers.
AMQP	The BMRS Data Push Service implements version 1.0 of the OASIS AMQP TC protocol. The OASIS AMQP TC advances a vendor-neutral and platform-agnostic protocol that offers organizations an easier; more secure approach to passing real-time data streams and business transactions. The goal of AMQP is to ensure information is safely and efficiently transported between applications, among organizations, across distributed cloud computing environments, and within mobile infrastructures. AMQP avoids proprietary technologies, offering the potential to lower the cost of enterprise middleware software integrations through open interoperability. By enabling a commoditized, multi-vendor ecosystem, AMQP seeks to create opportunities for transforming the way business is done in the Cloud and over the Internet.

8 Topology

The BMRS Data Push Service allows two different approaches for the receipt of the messages. Depending upon the number of client's that require the receipt of these messages within a participant's organisation would determine the approach to use.

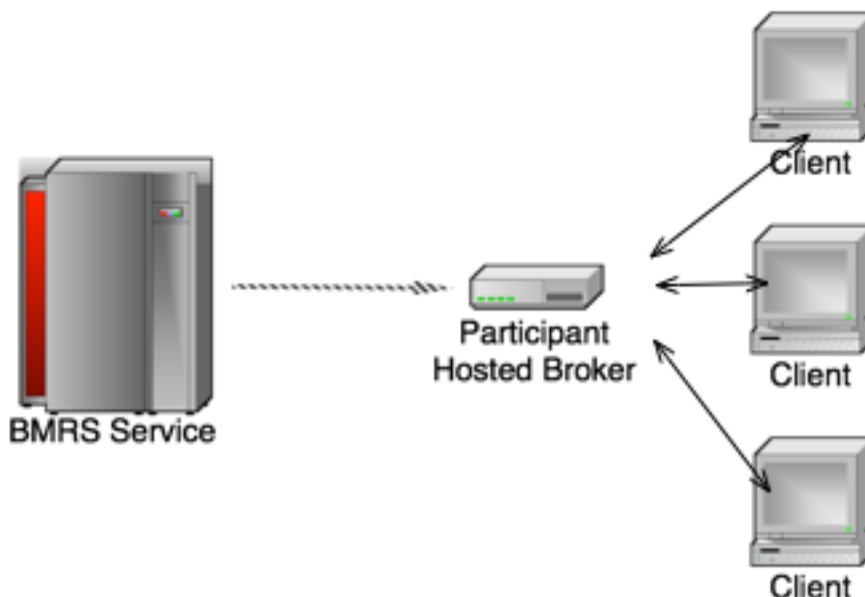
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8.1 Client direct connection



In this mode, each client will connect to the BMRS Data Push service and receive messages as they are published. This approach is advised if the participant wishes to connect only one or two clients to the BMRS Data Push Service due to the amount of traffic replicated over the Internet to each client. Due to the nature of the messages being delivered there may be a slight delay between each client receiving the message.

8.2 Participant hosted broker



If a participant wishes to connect several clients to the BMRS Data Push Service it is the recommendation for that participant to host their own broker. This would mean that only one instance of the message is transmitted over the Internet to the participant's network thus reducing traffic or latency.

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The participant's clients would then connect over the participant's local LAN to the participant's broker to receive the messages. This approach provides the participant with the quickest approach for messages to be delivered to multiple clients.

8.3 Protocol Connection Strings

Here are some examples of protocol connection strings for connectivity to the data push service

Protocol	Sample URL
OpenWire over TCP	ssl://<host>:61616
OpenWire over HTTPS	https://<host>:61617
Stomp	stomp+ssl://<host>:61613
AMQP	amqp+ssl://<host>:5672

8.4 Push Data XSDs

The XSDs for the push data service can be found on the ELEXON Portal in the "BMRS API & Data Push" Folder as shown below.

ELEXON Portal site search

HOME | FAQS | USER GUIDE | SEARCH | FEEDBACK

YOU ARE HERE > Content > BMRS API & Data Push

VIEW CATEGORY | **EDIT CATEGORY**

BMRS API & Data Push | New article | New category | New board

This area of the portal contains documentation and support materials related to the use of the BMRS API and the BMRA Data Push Service.

Title	Last Modified
Data Push Service XML Schema Definitions	16/06/2015

MY PORTAL | zaahir ghanty

- My Profile
- My Download Basket (empty)
- Bookmarks (manage)
 - BMRA Data Archive (formerl...
 - Market Domain Data (MDD)
 - Registered BM Units
 - Generation by Fuel Type - ...
 - SVA Line Loss Factors

log out

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8.5 Data Push Service – Summary Data Set

The list of data available via the data push service is listed in the table below.

8.5.1 Data Push – Message Types

Interface ID	Data flow type	Data Items	Date set IDD ref
BMRA-I004	Balancing Mechanism Data	Bid-Offer Acceptance Level Flagged Data	BOALF
BMRA-I004	Balancing Mechanism Data	Bid-Offer Data	BOD
BMRA-I004	Balancing Mechanism Data	Maximum Delivery Period	MDP
BMRA-I004	Balancing Mechanism Data	Maximum Delivery Volume	MDV
BMRA-I004	Balancing Mechanism Data	Maximum Export Limit	MEL, MELS
BMRA-I004	Balancing Mechanism Data	Maximum Import Limit	MIL, MILS
BMRA-I004	Balancing Mechanism Data	Minimum Non-Zero Time	MNZT
BMRA-I004	Balancing Mechanism Data	Minimum Zero Time	MZT
BMRA-I004	Balancing Mechanism Data	Notice to Deviate from Zero	NDZ
BMRA-I004	Balancing Mechanism Data	Notice to Deliver Bids	NTB
BMRA-I004	Balancing Mechanism Data	Notice to Deliver Offers	NTO
BMRA-I004	Balancing Mechanism Data	Point FPN Data	PN, FPN
BMRA-I004	Balancing Mechanism Data	Applicable Balancing Services Volume Data	QAS
BMRA-I004	Balancing Mechanism Data	Point Quiescent FPN Data	QPN
BMRA-I004	Balancing Mechanism Data	Run Down Rates Export	RDRE
BMRA-I004	Balancing Mechanism Data	Run Down Rates Import	RDRI
BMRA-I004	Balancing Mechanism Data	Run Up Rates Export	RURE
BMRA-I004	Balancing Mechanism Data	Run Up Rates Import	RURI
BMRA-I004	Balancing Mechanism Data	Stable Export Limit	SEL

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BMRA-I004	Balancing Mechanism Data	Stable Import Limit	SIL
BMRA-I005	System Related Data	Balancing Services Adjustment Action ID (unique for Settlement Period), Balancing Services Adjustment Action Cost (£), Balancing Services Adjustment Action Volume (MWh), Balancing Services Adjustment Action SO-Flag (T/F)	DISBSAD
BMRA-I005	System Related Data	National Output Usable by Fuel Type, 2-14 Day	FOU2T14D
BMRA-I005	System Related Data	National Output Usable by Fuel Type, 2-52 Week	FOU2T52W
BMRA-I005	System Related Data	Realtime Transmission System Frequency Data	FREQ
BMRA-I005	System Related Data	Half Hourly Generation By Fuel Type	FUELHH
BMRA-I005	System Related Data	Instantaneous Generation By Fuel Type	FUELINST
BMRA-I005	System Related Data	Indicated Imbalance	IMBALNGC
BMRA-I005	System Related Data	Sum of PN Demand (MW), (Indicated Demand)	INDDEM
BMRA-I005	System Related Data	Sum of PN Generation (MW), (Indicated Generation)	INDGEN
BMRA-I005	System Related Data	Initial National Demand Out-Turn	INDO
BMRA-I005	System Related Data	Outturn Volume (MWh), Normal Volume (MWh), High Volume (MWh), Low Volume (MWh)	INDOD
BMRA-I005	System Related Data	Initial Transmission System Demand Out-Turn	ITSDO
BMRA-I005	System Related Data	Indicated Margin	MELNGC
BMRA-I005	System Related Data	Market Index Price, Market Index Volume	MID
BMRA-I005	System Related Data	Missing Market Index Data Messages	Missing MID
BMRA-I005	System Related Data	National Demand Forecast	NDF
BMRA-I005	System Related Data	National Demand Forecast Day, 2-14 Day	NDFD

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BMRA-I005	System Related Data	National Demand Forecast Week, 2-52 Week	NDFW
BMRA-I005	System Related Data	Net Energy Buy Price Cost Adjustment (EBCA) (£), Net Energy Buy Price Volume Adjustment (EBVA) (MWh), Net System Buy Price Volume Adjustment (SBVA) (MWh), Buy Price Price Adjustment (BPA) (£/MWh), Net Energy Sell Price Cost Adjustment (ESCA) (£), Net Energy Sell Price Volume Adjustment (ESVA) (MWh), Net System Sell Price Volume Adjustment (SSVA) (MWh), Sell Price Price Adjustment (SPA) (£/MWh)	NETBSAD
BMRA-I005	System Related Data	Non-BM STOR Out-Turn	NONBM
BMRA-I005	System Related Data	National Surplus Forecast, 2-14 Day	OCNMFD
BMRA-I005	System Related Data	Generating Plant Demand Margin, 2-14 Days	OCNMFD2
BMRA-I005	System Related Data	National Surplus Forecast, 2-52 Week	OCNMFV
BMRA-I005	System Related Data	Generating Plant Demand Margin, 2-52 Weeks	OCNMFV2
BMRA-I005	System Related Data	SO-SO Prices	SO-SO
BMRA-I005	System Related Data	System Message	SYSMSG
BMRA-I005	System Related Data	System Zone Map	System Zone Map
BMRA-I005	System Related Data	System Warnings	SYSWARN
BMRA-I005	System Related Data	Outturn Temperature, Low Reference Temperature, Normal Reference Temperature, High Reference Temperature (all degrees Celsius)	TEMP, REFTEMP
BMRA-I005	System Related Data	Transmission System Demand Forecast	TSDF
BMRA-I005	System Related Data	Transmission System Demand Forecast Day, 2-14 Day	TSDFD
BMRA-I005	System Related Data	Transmission System Demand Forecast Week, 2-52 Week	TSDFW

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BMRA-I005	System Related Data	National Output Usable by Fuel Type and BM Unit, 2-14 Day	UOU2T14D
BMRA-I005	System Related Data	National Output Usable by Fuel Type and BM Unit, 2-52 Week	UOU2T52W
BMRA-I005	System Related Data	Generation Forecast (MW), Total Registered Capacity (MW)	WINDFOR
BMRA-I006	Derived Data	Period Bid and Offer Acceptance Volumes (QAB, QAO and CADL Flag)	BOAV
BMRA-I006	Derived Data	Estimated Period BM Unit Total Accepted Bid and Offer Volume (QAB and QAO), Estimated Period BM Unit Tagged Accepted Bid and Offer Volume (QTAB and QTAO), Estimated Period BM Unit Repriced Accepted Bid and Offer Volume (QRAB and QRAO), Estimated Period BM Unit Originally-Priced Accepted Bid and Offer Volume (QOAB and QOAO)	DISPTAV
BMRA-I006	Derived Data	Estimated Bid Offer Cash flows	EBOCF
BMRA-I006	Derived Data	Index, Component Identifier, Acceptance Number, Bid-Offer Pair Number, CADL Flag (T/F), SO-Flag (T/F), Repriced Indicator (T/F), Volume (MWh), DMAT Adjusted Volume (MWh), Arbitrage Adjusted Volume (MWh), NIV Adjusted Volume (MWh), PAR Adjusted Volume (MWh), Final Price (£/MWh), Transmission Loss Multiplier, TLM Adjusted Volume (MWh), TLM Adjusted Cost (£)	ISPSTACK
BMRA-I006	Derived Data	Estimated Period Balancing Mechanism Bid and Offer Cashflows (CB and CO)	PTAV
BMRA-I006	Derived Data	Disaggregated Estimated Buy and Sell Price	DISEBSP
BMRA-I006	Derived Data	Total Bid Volume and Total Offer Volume	TBOD
BMRA-I019	Credit Default Notices	Credit Default Notices	CDN

Please note: The Data Push Dataset also includes Transparency and REMIT data (B1610, B1720, etc)

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8.5.2 Field Type Index by Data Type

Data Type	Field Type
Acceptance Level Value	VA
Acceptance Number	NK
Acceptance Time	TA
Adjustment Cost	JC
Adjustment Identifier	AI
Adjustment Volume	JV
Amendment Flag	AM
Applicable Balancing Services Volume	SV
Arbitrage Adjusted Volume	AV
Affected LDSO	DS
Bid Cashflow	BC
Bid Price	BP
Bid Volume	BV
Bid/Offer Indicator	BO
Bid-Offer Level Value	VB
Bid-Offer Pair Number	NN
BMRS Informational Text	IN
BSAD Defaulted	BD
Buy Price	PB
Buy Price Cost Adjustment	A4
Buy Price Price Adjustment	A6
Buy Price Volume Adjustment	A5
CADL Flag	CF

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Data Type	Field Type
Calendar Year	CY
Calendar Week Number	WN
Cleared Default Settlement Date	CD
Cleared Default Settlement Period	CP
Component Identifier	CI
Contract Identification	IC
Credit Default Level	DL
Deemed Bid-Offer Flag	AD
Demand Control Event Flag	EV
Demand Control ID	ID
Demand Control Level	VO
Demand Margin	DM
Demand Value	VD
DMAT Adjusted Volume	DA
Effective From Time	TE
Entered Default Settlement Date	ED
Entered Default Settlement Period	EP
Energy Volume Daily High Reference	EH
Energy Volume Daily Low Reference	EL
Energy Volume Daily Normal Reference	EN
Energy Volume Outturn	EO
Export Level Value	VE
Fuel Type	FT
Fuel Type Generation	FG

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Data Type	Field Type
GB Reference High Noon Temperature	TH
GB Noon Temperature Outturn	TO
GB Reference Low Noon Temperature	TL
GB Reference Normal Noon Temperature	TN
Generation Value	VG
Imbalance Value	VI
Import Level Value	VF
Indicative Net Imbalance Volume	NI
Instruction Sequence No	SQ
Margin/Surplus Value	VM
Market Index Data Provider ID	MI
Market Index Price	M1
Market Index Volume	M2
Maximum Delivery Period	DP
Maximum Delivery Volume	DV
Message Type	MT
Minimum non-Zero Time	MN
Minimum Zero Time	MZ
Net Energy Buy Price Cost Adjustment	A9
Net Energy Buy Price Volume Adjustment	A10
Net Energy Sell Price Cost Adjustment	A7
Net Energy Sell Price Volume Adjustment	A8
Net System Buy Price Volume Adjustment	A12
Net System Sell Price Volume Adjustment	A11

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Data Type	Field Type
NIV Adjusted Volume	NV
Non-BM STOR Volume	NB
Notice to Deliver Bids	DB
Notice to Deliver Offers	DO
Notice to Deviate from Zero	DZ
Number of Records	NR
Number Of Spot Points	NP
Offer Cashflow	OC
Offer Price	OP
Offer Volume	OV
Output Usable	OU
PAR Adjusted Volume	PV
Period Originally-Priced BM Unit Bid Volume	P6
Period Originally-Priced BM Unit Offer Volume	P3
Period Repriced BM Unit Bid Volume	P5
Period Repriced BM Unit Offer Volume	P2
Period Tagged BM Unit Bid Volume	P4
Period Tagged BM Unit Offer Volume	P1
PN Level Value	VP
Price Derivation Code	PD
Publishing Time	TP
Replacement Price	RP
Replacement Price Calculation Volume	RV
Repriced Indicator	RI

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Data Type	Field Type
Reserve Scarcity Price	RSP
Run Down Elbow 2	RB
Run Down Elbow 3	RC
Run Down Rate 1	R1
Run Down Rate 2	R2
Run Down Rate 3	R3
Run Up Elbow 2	UB
Run Up Elbow 3	UC
Run Up Rate 1	U1
Run Up Rate 2	U2
Run Up Rate 3	U3
Sell Price	PS
Sell Price Cost Adjustment	A1
Sell Price Price Adjustment	A3
Sell Price Volume Adjustment	A2
Sequence Number	SN
Settlement Date	SD
Settlement Period	SP
Short Acceptance Flag	SA
Spot Time	TS
Stable Export Limit	SE
Stable Import Limit	SI
Stack Item Final Price	FP
Stack Item Original Price	IP

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Data Type	Field Type
Stack Item Volume	IV
STOR Provider Flag	PF
SO-Flag	SO
SO-SO Start Time	ST
SO-SO Trade Type	TT
System Frequency	SF
System Message Text	SM
System Total Priced Accepted Bid Volume	PC
System Total Priced Accepted Offer Volume	PP
System Total Unpriced Accepted Bid Volume	AC
System Total Unpriced Accepted Offer Volume	AP
System Warning Text	SW
Tagged Accepted Bid Volume	T2
Tagged Accepted Offer Volume	T1
Tagged Adjustment Buy Volume	J4
Tagged Adjustment Sell Volume	J3
Time From	TF
Time To	TI
TLM Adjusted Cost	TC
TLM Adjusted Volume	TV
Total Accepted Bid Volume	AB
Total Accepted Offer Volume	AO
Total Adjustment Buy Volume	J2
Total Adjustment Sell Volume	J1

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Data Type	Field Type
Total Bid Volume	BT
Total Offer Volume	OT
Total Registered Capacity	TR
Trade Direction	TD
Trade Price	PT
Trade Quantity	TQ
Transmission Loss Multiplier	TM
Bid-Offer Original Price	UP
Week Start Date	WD
Zone Indicator	ZI

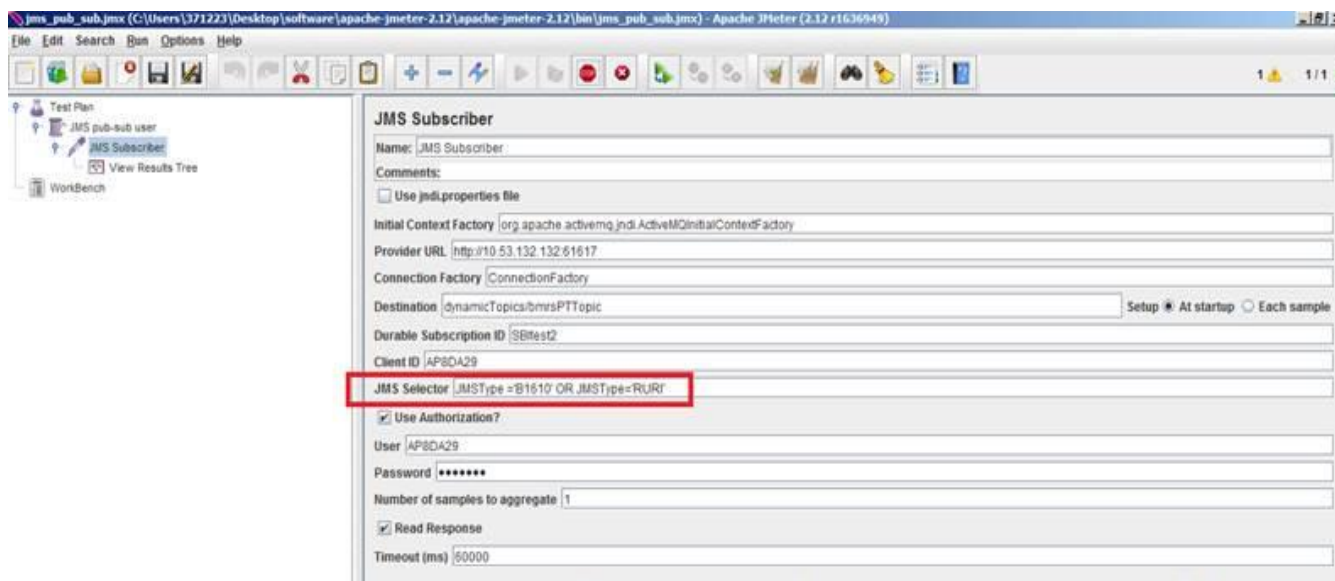
Please note: The Data Push Service data content is based on the **TIBCO Service** and for further guidance on the data items and field types please refer to the NETA Interface Definition and Design (IDD): Part 1.

8.6 Filter by Message types

The Data Push Service allows you to filter by message type. JMS selectors can be used to filter the received messages based on a given data item. The different flows have been assigned a unique JMSType (see the table below) and hence to filter on specific flows please use this field. The implementation of the filter depends on the participant side message consumer technology, however the syntax will be standards based as follows <https://docs.oracle.com/cd/E19798-01/821-1841/bncer/index.html>

Examples of the implementing a filter using the apache JMeter client are as follows:

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9 Data Push and API checklist

Below are the major points of information you will need to be able to use either the RESTful or the Push Data service.

9.1 RESTful

URL: This is the address of the RESTful service you are accessing. The default for the ELEXON live service is <https://api.bmreports.co.uk/BMRS>.

APIKey: This is provided through the ELEXON portal. You need to register with the portal prior to the use of the API services.

Client: This can be a web browser or a custom piece of code.

9.2 Push Data Service

URL: This is the address of the RESTful service you are accessing. The default for the ELEXON live service is https://api.bmreports.co.uk:<PROTOCOL_PORT>.

APIKey: This is provided through the ELEXON portal. You need to register with the portal prior to the use of the API services.

Protocol and API: A protocol is the language that is spoken between the push data service and your client. The ELEXON Push Data Service supports several protocols documented earlier in this guide. You will need to select a protocol and the supporting library (ELEXON do not provide these) for your environment.

Client: You will need a client that receives the information through your chosen protocol and library. This client will most likely be a custom piece of code for your environment that will receive the message from the ELEXON push data service and then process it for your organisation.

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9.3 Other Considerations

The broker is ActiveMQ 5.10.0

- The broker address is api.bmreports.com (for production), testapi.bmreports.com (for testing)
- The port varies depending on the chosen protocol – see section **8.3**.
- The method of establishing a durable connection varies depending on the protocol – see the ActiveMQ website for details
- Regardless of chosen protocol, your scripting key should be passed as both username and password – see your profile page of the ELEXON Portal
- The topic is /topic/bmrsTopic
- No particular approach is recommended, but Java examples are provided in the Appendix of this document

APPENDICES

10 Appendix A – Example Source Code RESTful Service

10.1 Java

The following code demonstrates calling the RESTful service using standard Java API.

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;

/**
 *
 * @author stephen
 */
public class BMRSGet {

    private static final String ELEXON_PORTAL_KEY = "YOUR API KEY HERE";

    public static void main(String[] args) {

        try {
```

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```
URL url = new URL("https://testapi.bmreports.com/BMRS/MessageListRetrieval/V1?ServiceType=XML&APIKey=" + ELEXON_PORTAL_KEY + "&EventStart=2014-01-01&EventEnd=2014-01-02");

URLConnection conn = (URLConnection) url.openConnection();

conn.setRequestMethod("GET");

conn.setRequestProperty("Accept", "application/xml");

if (conn.getResponseCode() != 200) {
    throw new RuntimeException("Failed : HTTP error code : "
        + conn.getResponseCode());
}

BufferedReader br = new BufferedReader(new InputStreamReader(
    (conn.getInputStream())));

String output;

System.out.println("Output from Server .... \n");

while ((output = br.readLine()) != null) {
    System.out.println(output);
}

conn.disconnect();
```

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```
    } catch (MalformedURLException e) {  
  
        e.printStackTrace();  
  
    } catch (IOException e) {  
  
        e.printStackTrace();  
  
    }  
  
    }  
}
```

10.2 Python

The following code is written in python and demonstrates calling the Elexon RESTful API. Please note that you need to replace the **YOUR_API_KEY_HERE** with the key from the Elexon portal.

```
#!/usr/bin/env python  
  
import httpLib2  
  
# These aren't needed, just for this example  
from pprint import pprint
```

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```
def post_elexon(url):
    http_obj = http-lib2.Http()
    resp, content = http_obj.request(
        uri=url,
        method='GET',
        headers={'Content-Type': 'application/xml; charset=UTF-8'},
    )
    print '===Response===\n'
    print pformat(resp)

    print '===Content===\n'
    print pformat(content)

    print '===Finished===\n'

def main():
    post_elexon(
        url='https://api.bmreports.com/BMRS/B1770/v1?APIKey=YOUR_API_KEY_HERE&SettlementDate=2015-03-01&Period=1&ServiceType=xml',
    )
```

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```
if __name__ == "__main__":  
    main()
```



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11 Appendix B – Example Push Data Service Source Code

11.1 Java – onMessage example

```
import java.io.FileWriter;

import java.io.PrintWriter;

import javax.jms.Connection;

import javax.jms.ConnectionFactory;

import javax.jms.JMSException;

import javax.jms.MessageConsumer;

import javax.jms.MessageListener;

import javax.jms.Session;

import javax.jms.Topic;

import org.apache.activemq.ActiveMQConnectionFactory;

import org.apache.activemq.command.ActiveMQTextMessage;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

/**
 *
 * @author stephen
 */
public class Subscriber {
```

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```
// --- Start of connection details
private static final String URL = "ssl://api.bmreports.com:61616"; // This is the connection string to the ELEXON servers
private static final String APIKEY = "<YOUR API KEY GOES HERE>"; // This is your API key from the portal
private static final String CLIENTID = "<YOUR CLIENT ID GOES HERE>"; // This is a client name that needs to be unique (this you create)
private static final String TOPICNAME = "bmrsTopic"; // This is the topic name
private static final String SUBSCRIPTIONID = "<YOUR SUBSCRIPTION ID GOES HERE>"; // Each durable subscription needs an ID that is unique (this you create)
// --- End of connection details

private static final Logger LOGGER = LoggerFactory
    .getLogger(Subscriber.class);

private Connection connection;
private Session session;
private MessageConsumer messageConsumer;
private static Subscriber subscriberPublishSubscribe;

/**
 * Generic start point.
 *
 * @param args the command line arguments
 * @throws java.lang.Exception
```

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```
*/  
public static void main(String[] args) throws Exception {  
    try {  
        // Setup and connect to the queue  
        subscriberPublishSubscribe = new Subscriber();  
        subscriberPublishSubscribe.create(URL, APIKEY, CLIENTID, TOPICNAME, SUBSCRIPTIONID);  
  
    } catch (Exception ex) {  
  
        LOGGER.error(ex.getLocalizedMessage());  
  
        if (subscriberPublishSubscribe != null) {  
            subscriberPublishSubscribe.closeConnection();  
        }  
    }  
}  
  
/**  
 * This is the method that initiates the connection and sets up the  
 * JMSListener  
 *  
 */
```

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```
* @param url - The server and connection protocol
* @param apikey - the api key to connect with
* @param clientId - Unique id for this client
* @param topicName - The topic to listen to
* @throws JMSEException
*/

public void create(String url, String apikey, String clientId, String topicName, String subId) throws JMSEException {

    // create a Connection Factory
    ConnectionFactory factory = new ActiveMQConnectionFactory(apikey, apikey, url);

    try {
        // create a Connection
        LOGGER.debug("Creating a connection");
        connection = factory.createConnection();
        connection.setClientID(clientId);

        // create a Session
        LOGGER.debug("Creating a session");
        session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);

        // create the Topic from which messages will be received
```

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```
LOGGER.debug("Creating the topic connection: " + topicName);

Topic topic = session.createTopic(topicName);

// Set up the message consumer
LOGGER.debug("Creating the consumer for: " + topicName);
//messageConsumer = session.createConsumer(topic);
messageConsumer = session.createDurableSubscriber(topic, subId);

// Create the listener.
LOGGER.debug("Setting up the listener");
JMSMessageListener listener = new JMSMessageListener();
messageConsumer.setMessageListener(listener);

// start the connection in order to receive messages
LOGGER.debug("Starting the connection");
connection.start();
} catch (JMSEException exp) {
    throw exp;
}
}

public void closeConnection() throws JMSEException {
```

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```
    LOGGER.debug("Closing the connection");
    connection.close();
}

/**
 * This class implements a message listener for the ActiveMQ
 */
class JMSMessageListener implements MessageListener {

    @Override
    public void onMessage(javax.jms.Message msg) {
        try {
            LOGGER.info(msg.toString());

            ActiveMQTextMessage txtMessage = (ActiveMQTextMessage) msg;

            LOGGER.info(txtMessage.getText());

            try (PrintWriter out = new PrintWriter(new FileWriter(txtMessage.getJMSMessageID()))) {
                out.print(txtMessage.getText());
            }
        }
    }
}
```

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```
        } catch (Exception ex) {  
            LOGGER.error(ex.getLocalizedMessage());  
        }  
    }  
}
```

11.2 Java – Looping example

```
import javax.jms.Connection;  
import javax.jms.ConnectionFactory;  
import javax.jms.JMSEException;  
import javax.jms.Message;  
import javax.jms.MessageConsumer;  
import javax.jms.Session;  
import javax.jms.TextMessage;  
import javax.jms.Topic;  
import javax.naming.NamingException;  
import org.apache.activemq.ActiveMQConnectionFactory;  
import org.slf4j.Logger;  
import org.slf4j.LoggerFactory;  
  
/**
```

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```
*
* @author stephen
*/
public class SubscriberRetry {

    // --- Start of connection details
    private static final String URL = "ssl://api.bmreports.com:61616"; // This is the connection string to the ELEXON servers
    private static final String APIKEY = "<YOUR API KEY GOES HERE>"; // This is your API key from the portal
    private static final String CLIENTID = "<YOUR CLIENT ID GOES HERE>"; // This is a client name that needs to be unique (this you create)
    private static final String TOPICNAME = "bmrsTopic"; // This is the topic name
    private static final String SUBSCRIPTIONID = "<YOUR SUBSCRIPTION ID GOES HERE>"; // Each durable subscription needs an ID that is unique (this you create)
    // --- End of connection details

    private static final Logger LOGGER = LoggerFactory
        .getLogger(SubscriberRetry.class);

    private static SubscriberRetry consumer;
    private Connection connection;
    private Session session;
    private MessageConsumer messageConsumer;

    private boolean transacted;
```

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```
private boolean isRunning = false;

/**
 * @param args the command line arguments
 * @throws java.lang.InterruptedException
 */
public static void main(String[] args) throws InterruptedException {

    int retryCount = 20000;
    int count = 0;
    consumer = new SubscriberRetry();

    // This runs forever
    while (count < retryCount) {
        LOGGER.debug("Attempting connection. Count = " + count);
        try {
            consumer.run();
        } catch (NamingException | JMSEException ex) {
            LOGGER.error(ex.getLocalizedMessage());
            count++;
        } finally {
            LOGGER.debug("Shutting down");
        }
    }
}
```

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```
    }  
    Thread.sleep(1000);  
}  
}  
  
public void run() throws NamingException, JMSEException {  
    isRunning = true;  
  
    // create a Connection Factory  
    ConnectionFactory factory = new ActiveMQConnectionFactory(APIKEY, APIKEY, URL);  
  
    // create a Connection  
    LOGGER.debug("Creating a connection");  
    connection = factory.createConnection();  
    connection.setClientID(CLIENTID);  
  
    // create a Session  
    LOGGER.debug("Creating a session");  
    session = connection.createSession(transacted, Session.AUTO_ACKNOWLEDGE);  
  
    // create the Topic from which messages will be received  
    LOGGER.debug("Creating the topic connection: " + TOPICNAME);
```

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```
Topic topic = session.createTopic(TOPICNAME);

// Set up the message consumer
LOGGER.debug("Creating the consumer for: " + TOPICNAME);
messageConsumer = session.createDurableSubscriber(topic, SUBSCRIPTIONID);

// start the connection in order to receive messages
LOGGER.debug("Starting the connection");
connection.start();

while (isRunning) {
    LOGGER.debug("Waiting for message..");
    Message message = messageConsumer.receive(1000);
    if (message != null && message instanceof TextMessage) {
        TextMessage txtMsg = (TextMessage) message;
        LOGGER.debug("Received: " + txtMsg.getText());
    }
}
LOGGER.debug("Closing connection");
messageConsumer.close();
session.close();
connection.close();
```

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11.3 Python Example (Stomp)

The following example uses the stomp.py library – see <https://github.com/jasonrbriggs/stomp.py>

```
import stomp
import time

class MyListener(stomp.ConnectionListener):
    def on_error(self, headers, message):
        print('received an error "%s"' % message)
    def on_message(self, headers, message):
        for k,v in headers.iteritems():
            print('header: key %s , value %s' %(k,v))
        print('received a message "%s"' % message)
        with open("messages.log", "a") as logfile:
            logfile.write(message)

conn = stomp.Connection12(host_and_ports=[('api.bmreports.com', 61613)], use_ssl=True)
conn.set_listener('', MyListener())
conn.start()
conn.connect('YOUR API KEY HERE', 'YOUR API KEY HERE', True)
conn.subscribe(destination='/topic/bmrsTopic', ack='auto', id='CLIENT ID OF YOUR CHOICE HERE')
while conn.is_connected():
    time.sleep(1)
```

12 Amendment History

Version	Date	Author	Reason
Version 0.1	12 November 2014	Zaahir Ghanty	First Draft for peer review
Version 0.2	12 December 2014	Stephen J. Thompson	Brought into alignment with 0.6 of the API specification
Version 0.3	12 December 2014	Zaahir Ghanty	Update following review
Version 0.4	28 April 2015	Zaahir Ghanty/Stephen J. Thompson	Update to include REST API for Phase 2 & Data Push Service
Version 0.5	18 May 2015	Zaahir Ghanty	Update following user feedback
Version 0.6	14 July 2015	Stephen J. Thompson	Update of API request method from POST to GET
Version 0.7	24 July 2015	Zaahir Ghanty/Stephen J. Thompson	Update of API URLs and Java examples for Data Push
Version 0.8	31 August 2015	Stephen J. Thompson	Updated the RESTful examples to use the GET verb. Added a checklist for users
Version 0.9	22 January 2016	Zaahir Ghanty	Updated to include REST API for Phase 3 and P305 Data
Version 0.10	22 April 2016	Zaahir Ghanty	Updated following user feedback Added message types for Data Push Service
Version 0.11	14 July 2016	Zaahir Ghanty	Housekeeping updates
Version 0.12	17 October 2016	Zaahir Ghanty	Housekeeping updates & Python working example for Data Push
Version 1.0	23 June 2017	Zaahir Ghanty	Updates for June 2017 BSC System release (BSC Modifications P321 ¹ and P329 ²)
Version 1.1	30 October 2017	Zaahir Ghanty	Updates for November 2017 BSC System Release (BSC Modification P336 ³) Inclusion of BIOMASS in API responses for FUELINSTHHCUR, FUELINST, FUELHH, FOU2T14D, UOU2T14D, FOU2T52W, UOU2T52W. No changes to API URIs
Version 2.0	11 November 2018	Stephen Francis	Updates for November 2018 BSC Systems Release (CP1503 ⁴ and CP1506 ⁵)

¹ Publication of Trading Unit Delivery Mode

² Changes to REMIT inside information reporting

³ Fuel types on the BMRS

⁴ Changes to European Transparency Regulation Data

⁵ New Interconnector fuel type