PUBLIC

BMRS API and Data Push User Guide

Draft for Phase 3 Release

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Version 0.12
17 October 2016



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1 Introduction

1.1 The BMRS

The <u>Balancing Mechanism Reporting Service</u> (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 legacy BMRS 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.

1.2 New BMRS Project

The BMRS project was set out to deliver the following benefits to ELEXON and market participants:

- Provision of a web service Representational State Transfer (REST) Application Programming Interface (API) for programmatic and timely access to BMRS data;
- A near real time Data Push Service to act as a viable alternative to the TIBCO service;
- A high-performing website, with faster response and download times;
- A flexible and loosely-coupled architecture that enables cheaper and quicker changes; and
- A modern web user interface (UI) to improve navigation and usability of the website.

The project delivery is being carried out in three phases:

Phase 1: Building the new architecture and using it to deliver Modifications P291 and P295 (December 2014);

Phase 2: Parallel loading of existing National Grid flows to the new architecture and provision of data access (excluding derived data) via the API and Data Push Service (July 2015); and

Phase 3: A new website front end, implementation of a calculation engine for derived data and provision of all data via the website UI, API¹ and Data Push Service (September 2016).

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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[?]

¹ The Phase 3 APIs have been activated on 17 October 2016

1.3 Purpose and Scope

1.3.1 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

1.3.2 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 <u>BMRS Data Terms of Use Policy.</u>

1.3.3 Which data can I access via the API?

Project Phase	Data examples	Availability	API Details	Availability in Production System
Phase 1 APIs	Transparency Regulation data and REMIT Inside information	Production system	Section 5.1	December 2014
Phase 2 APIs	Generation by Fuel type, Frequency Data, Demand Ahead, Output Useable data	Production system	Section 5.2	July 2015
Phase 3 APIs	Detailed System Prices, Physical Data (FPN, MIL/MEL), Latest Acceptances	Production system	Section 5.3	October 2016

Section 4.2 provides a full list of all the data available through the different phases of the project.

1.3.4 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.

1.3.5 What do I need to 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**.

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



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ELEXON will ensure the API guidance document is updated and this will provide you with details on how to use the API and the process required to access to API.

ELEXON will ensure that the API and Data Push Service are functional and has no obligation to provide 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.

1.4 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.

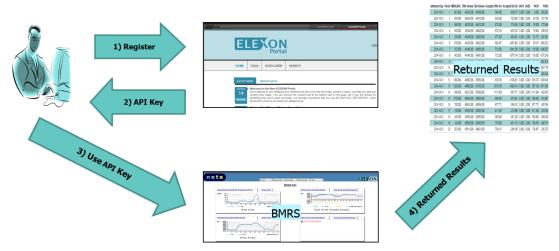


Figure 1: Steps to use API

ANY QUERIES PLEASE CONTACT THE BSC SERVICE DESK: BSCSERVICEDESK@CGI.COM



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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.

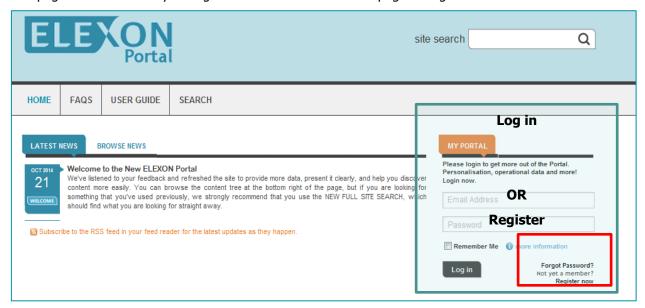


Figure 2: Accessing the ELEXON Portal

2.2 Registration

Follow the instructions on the screen to register.

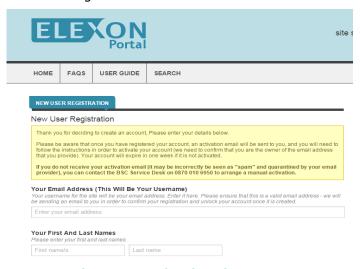


Figure 3: Portal registration screen

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.

ELEXON

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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.

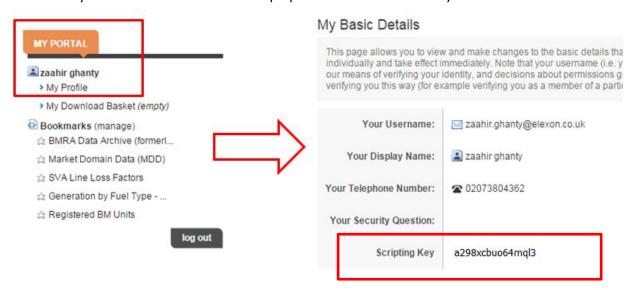


Figure 4: Retrieving API Key

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



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ACESSING 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 locator (URL)
- The search parameters which will be passed as input parameters in the API URLs
- Expected format for returned results

4.1 API Design and Key Features

A sample URL is shown below. As this document is still in draft stages, the different entities, such as the host address, port number will be subject to change. The final version of this document will provide the definitive view.



Figure 5: API URL example

- Host address: This is the first portion of the URL, 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 <u>ELEXON Portal</u>, 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).

Once the URL is submitted, the API returns the data in the format requested, ready for use in any further processes.



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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

Note: For BMRS test environment the HOST will be https://testapi.bmreports.com

Service Desk Support: <u>bscservicedesk@cgi.com</u>

4.2 Summary of Data Available through REST API

4.2.1 BMRS Transparency & REMIT Data (Phase 1) from RESTful API

Through the API, you can retrieve data relating to REMIT (P291) and Transparency Regulations (P295). The list of flows available is listed below and detailed in section 5. All the BMRS Transparency and REMIT data are available in REST API and from July 2015, on the Data Push Service.

P295 - Transparency Data Items from NGC	NGC BRD Ref.	Regulation Ref.	Source		Phase (Delivery Date)
Actual Total Load Per Bidding Zone	B0610	A6.1a	NGC - EFS	Half Hourly	Phase 1 (December 2014)
Day-Ahead Total Load Forecast Per Bidding Zone	B0620	A6.1b	NGC - EFS	Daily	Phase 1 (December 2014)
Week-Ahead Total Load Forecast Per Bidding Zone	B0630	A6.1c	NGC - EFS	Weekly	Phase 1 (December 2014)
Month-Ahead Total Load Forecast Per Bidding Zone	B0640	A6.1d	NGC - EFS	Monthly	Phase 1 (December 2014)



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P295 - Transparency Data Items from NGC	NGC BRD Ref.	Regulation Ref	Source	Frequency of Receipt (by BMRS)	Phase (Delivery Date)
Year-Ahead Total Load Forecast Per Bidding Zone	B0650	A6.1e	NGC - EFS	Yearly	Phase 1 (December 2014)
Planned Unavailability Of Consumption Units	B0710	A7.1a	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Changes In Actual Availability Of Consumption Units	B0720	A7.1b	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Year-Ahead Forecast Margin	B0810	A8.1	NGC – MODIS (Manual)	Yearly	Phase 1 (December 2014)
Expansion and Dismantling Projects	B0910	A9.1	NGC – MODIS (Manual)	Yearly	Phase 1 (December 2014)
Planned Unavailability In The Transmission Grid	B1010	A10.1a	NGC – MODIS (Manual)	Ad-hoc	Phase 1 (December 2014)
Changes In Actual Availability In The Transmission Grid	B1020	A10.1b	NGC – MODIS (Manual)	Ad-hoc	Phase 1 (December 2014)
Changes In Actual Availability Of Off- Shore Grid Infrastructure	B1030	A10.1c	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Countertrading	B1320	A13.1b	NGC - MODIS	Half Hourly	Phase 1 (December 2014)
Costs Of Congestion Management	B1330	A13.1c	NGC - MODIS	Monthly	Phase 1 (December 2014)
Installed Generation Capacity Aggregated	B1410	A14.1a	NGC – MODIS (Manual)	Yearly	Phase 1 (December 2014)
Day-Ahead Aggregated Generation	B1430	A14.1c	NGC - EFS	Daily	Phase 1 (December 2014)
Day-Ahead Generation forecasts For Wind And Solar	B1440	A14.1d	NGC - EFS	Daily	Phase 1 (December 2014)



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P295 - Transparency Data Items from NGC	NGC BRD Ref	Regulation Ref	.Source	Frequency of Receipt (by BMRS)	Phase (Delivery Date)
Actual Aggregated Generation Per Type	B1620	A16.1b	NGC - EFS	Half Hourly	Phase 1 (December 2014)
Actual Or Estimated Wind And Solar Power Generation	B1630	A16.1c	NGC - EFS	Half Hourly	Phase 1 (December 2014)
Planned Unavailability Of Generation Units	B1510	A15.1a	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Changes In Actual Availability Of Generation Units	B1520	A15.1b	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Planned Unavailability Of Production Units	B1530	A15.1c	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Changes In Actual Availability Of Production Units	B1540	A15.1d	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Amount Of Balancing Reserves Under Contract	B1720	A17.1b	NGC – MODIS (Manual)	Half Hourly	Phase 1 (December 2014)
Prices Of Procured Balancing Reserves	B1730	A17.1c	NGC – MODIS (Manual)	Half Hourly	Phase 1 (December 2014)
Accepted Aggregated Offers	B1740	A17.1d	NGC - MODIS	Half Hourly	Phase 1 (December 2014)
Activated Balancing Energy	B1750	A17.1e	NGC - MODIS	Half Hourly	Phase 1 (December 2014)
Prices Of Activated Balancing Energy	B1760	A17.1f	NGC - MODIS	Half Hourly	Phase 1 (December 2014)
Financial Expenses And Income For Balancing	B1790	A17.1i	NGC – MODIS (Manual)	Monthly	Phase 1 (December 2014)
Cross Border Balancing – Volumes Of Exchanged Bids and Offers	B1810	A17.1ja	NGC - MODIS	Half Hourly	Phase 1 (December 2014)



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P295 - Transparency Data Items from NGC	NGC BRD Ref.	Regulation Ref.	Source	Frequency of Receipt (by BMRS)	Phase (Delivery Date)
Cross Border Balancing – Prices	B1820	A17.1jb	NGC – MODIS	Half Hourly	Phase 1 (December 2014)
Cross Border Balancing –Energy Activated	B1830	A17.1jc	NGC – MODIS	Half Hourly	Phase 1 (December 2014)
Configuration Flow	B1930	NA	NGC - MODIS	Ad-hoc	Phase 1 (December 2014)
Actual Generation Output Per Generation Unit	B1610	A16.1a	Legacy BMRS/SAA	Half Hourly	Phase 1 (December 2014)
Imbalance Prices	B1770	A17.1g	Legacy	Half Hourly	Phase 1
Aggregated Imbalance Volumes	B1780	A17.1h	Legacy BMRS/SAA	Half Hourly	Phase 1 (December 2014)
P291 REMIT Urgent Market Messages	NA	NA	ELEXON Portal, NGC	Ad-hoc	Phase 1 (December 2014)

4.2.2 Existing BMRS Data (Phase 2 & 3) from RESTful API

From July 2015, you will be able to use the REST API to retrieve data. Below is a table of which of the Existing BMRS data is available via the REST API. The list of data available for the data push can be found in section 6.

RESTful API#	RESTful API Data Set	Data Items Covered	IDD Item Ref (Input) traceability	Phase and Delivery Date
RA-1001	Forecast Day and Day Ahead Demand Data (National & Zonal)	As below	As below	Phase 2 (July 2015)
		National Day and Day-Ahead National Demand Forecast	NDF	
		Day and Day-Ahead Indicated Demand	INDEM	
		Day and Day-Ahead Indicated Generation	INDGEN	
		Day and Day-Ahead Transmission System Demand Forecast	TSDF	



RA-1002	Forecast Day and Day Ahead Margin and Imbalance Data	As below	As below	Phase 2 (July 2015)
		Day and Day-Ahead Margin	MELNGC	
		Day and Day-Ahead Imbalance	IMBALNGC	
RA-1003	Demand & Surplus Forecast Data (2-14 days ahead)		As below	
		Demand & Surplus Forecast Data (2-14 days ahead) National Demand	NDFD	Phase 2 (July 2015)
		Demand & Surplus Forecast Data (2-14 days ahead) Surplus	OCNMFD	
		Demand & Surplus Forecast Data (2-14 days ahead) Transmission System Demand	TSDFD	
		Demand & Surplus Forecast Data (2-14 days ahead) Generating Plant Demand Margin	OCNMFD2	
RA-1004	Demand & Surplus Forecast Data (2-52 weeks ahead)	As below	As below	
		Demand & Surplus Forecast Data (2-52 weeks ahead) National Demand	NDFW	Phase 2 (July 2015)
		Demand & Surplus Forecast Data (2-52 weeks ahead) Transmission System Demand	TSDFW	
		Demand & Surplus Forecast Data (2-52 weeks ahead) Surplus	OCNMFW	
		Demand & Surplus Forecast Data (2-52 weeks ahead) Generating Plant Demand Margin	OCNMFW2	
RA-1005	National Output Usable (2-14 days ahead)	National Output Usable (2-14 days ahead)	NOU2T14D	Phase 2 (July 2015)
RA-1006	National Output Usable (2-49 days ahead)	National Output Usable (2-49 days ahead)	NOU2T49D	Not currently received from National Grid
RA-1007	National Output Usable (2-52 weeks ahead)	National Output Usable (2-52 weeks ahead)	NOU2T52W	Phase 2 (July 2015)



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RA-1008	National Output Usable (1 year ahead)	National Output Usable (1 year ahead)	NOUY1	Phase 2 (July 2015)
RA-1009	National Output Usable (2 year ahead)	National Output Usable (2 year ahead)	NOUY2	Phase 2 (July 2015)
RA-1010	National Output Usable (3 year ahead)	National Output Usable (3 year ahead)	NOUY3	Phase 2 (July 2015)
RA-1011	National Output Usable (4 year ahead)	National Output Usable (4 year ahead)	NOUY4	Phase 2 (July 2015)
RA-1012	National Output Usable (5 year ahead)	National Output Usable (5 year ahead)	NOUY5	Phase 2 (July 2015)
RA-1013	Zonal Output Usable (2- 14 days ahead)	Zonal Output Usable (2-14 days ahead)	ZOU2T14D	Phase 2 (July 2015)
RA-1014	Zonal Output Usable (2- 49 days ahead)	Zonal Output Usable (2-49 days ahead)	ZOU2T49D	Not currently received from National Grid
RA-1015	Zonal Output Usable (2- 52 weeks ahead)	Zonal Output Usable (2-52 weeks ahead)	ZOU2T52W	Phase 2 (July 2015)
RA-1016	Zonal Output Usable (1 year ahead)	Zonal Output Usable (1 year ahead)	ZOUY1	Phase 2 (July 2015)
RA-1017	Zonal Output Usable (2 year ahead)	Zonal Output Usable (2 year ahead)	ZOUY2	Phase 2 (July 2015)
RA-1018	Zonal Output Usable (3 year ahead)	Zonal Output Usable (3 year ahead)	ZOUY3	Phase 2 (July 2015)
RA-1019	Zonal Output Usable (4 year ahead)	Zonal Output Usable (4 year ahead)	ZOUY4	Phase 2 (July 2015)
RA-1020	Zonal Output Usable (5 year ahead)	Zonal Output Usable (5 year ahead)	ZOUY5	Phase 2 (July 2015)
RA-1021	National Output Usable by Fuel Type (2-14 days ahead)	National Output Usable by Fuel Type (2-14 days ahead)	FOU2T14D	Phase 2 (July 2015)



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RA-1022		National Output Usable by Fuel Type and BM Unit (2-14 days ahead)	UOU2T14D	Phase 2 (July 2015)
RA-1023	National Output Usable by Fuel Type (2-52 weeks ahead)	National Output Usable by Fuel Type (2-52 weeks ahead)	FOU2T52W	Phase 2 (July 2015)
RA-1024		Unit (2-52 weeks ahead)	UOU2T52W	Phase 2 (July 2015)
RA-1025	Initial Demand Outturn	As below	As below	Phase 2 (July 2015)
		Initial Demand Outturn	INDO	
		Initial Transmission System Demand Outturn	ITSDO	
RA-1026	Peak Demand	Peak Demand	TSDF, ITSDO	Phase 3 (October 2016)
RA-1027		Indicative Peak Demand Information(using Operational Metering Data)		Phase 3 (October 2016)
RA-1028	System Demand	System Demand	TSDF, ITSDO	Phase 3 (October 2016)
RA-1029		Indicative Triad Demand Information(using Settlement Metering Data)	TSDFW/ S0142	Phase 3 (October 2016)
RA-1030	Gate Closure Data / BM Unit Physical Data	As below	As below	Phase 3 (October 2016)
		FPN Data	PN,FPN	
		QPN Data	QPN	
		Maximum Export Level Data	MEL, MELS	
		Maximum Import Level Data	MIL, MILS	



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		Bid-Offer Acceptance Level Flagged Data (post P217)	BOALF	
RA-1031	Dynamic Data	As below	As below	
		Run Up Rate Export	RURE	
		Run Down Rate Export	RDRE	
		Run Up Rate Import	RURI	
		Run Down Rate Import	RDRI	
		Notice to Deviate from Zero	NDZ	
		Notice to Deliver Bids	NTB	Phase 3 (October 2016)
		Notice to Deliver Offers	NTO	
		Minimum Zero Time	MZT	
		Minimum Non-Zero Time	MNZT	
		Stable Export Limit	SEL	
		Stable Import Limit	SIL	
		Maximum Delivery Volume	MDV	
		Maximum Delivery Period	MDP	
RA-1032	Bid-Offer Level Data	Bid-Offer Level Data	BOD	Phase 2 (July 2015)
RA-1033	Derived BM Unit Data	As below	As below	
		Bid Acceptance Volumes	Phase 3	Phase 3 (October 2016)
		Offer Acceptance Volumes	Phase 3	
		Indicative Period Bid Acceptance Volumes	IQAB	
		Indicative Period Offer Acceptance Volumes	IQAO	



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		Indicative Period Bid Cashflow	ICB			
		Indicative Period Offer Cashflow	ICO			
RA-1034	Market Imbalance	Market Imbalance	Phase 3	Phase 3 (October 2016)		
RA-1035	Derived System-wide Data	System Buy/Sell Prices (yesterday, today, historic)	SBP, SSP	Phase 3 (October 2016)		
RA-1036	System Prices – Detailed Reporting	System Prices – Detailed Reporting	various	Phase 3 (October 2016)		
RA-1037	Market Depth Data	Market Depth Data (Historic, Current)	xet Depth Data (Historic, Current) various			
RA-1038	Latest Acceptances	Latest Acceptance Data	Phase 3 (October 2016)			
RA-1039	Historic Acceptances	Historic Acceptance Data	various	Phase 3 (October 2016)		
	Balancing Services Adjustment Action Data	As below	As below	Phase 2 (July 2015)		
RA-1040a		Balancing Services Adjustment Action Data	NETBSAD			
RA-1040b		Balancing Services Adjustment Action Data	DISBSAD			
RA-1041	Market Index Data	Market Index Data	MID	Phase 2 (July 2015)		
RA-1042	Applicable Balancing Services Volume Data	Applicable Balancing Services Volume Data	cing Services Volume Data QAS			
RA-1043	Credit Default Notice Data	Credit Default Notice Data	CDN Phase 2 (July			
RA-1044	Temperature Data	Temperature Data	TEMP, REFTEMP	Phase 2 (July 2015)		



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RA-1045	Wind Generation Forecast and Outturn Data	Wind Generation Forecast and Outturn Data	WINDFOR, FUELHH	Phase 2 (July 2015)
RA-1046	Peak Wind Generation Forecast	Peak Wind Generation Forecast WINDFOR		Phase 2 (July 2015)
RA-1047	Instantaneous Generation By Fuel Type	Instantaneous Generation By Fuel Type	Phase 2 (July 2015)	
RA-1048	Half Hourly Outturn Generation By Fuel Type	Half Hourly Outturn Generation By Fuel Type FUELHH		Phase 2 (July 2015)
RA-1049	Generation By Fuel Type (Current)	Generation By Fuel Type (Current)	FUELINST, FUELHH	Phase 2 (July 2015)
RA-1050	Rolling System Demands (Current / Historic)	Rolling System Demands (Current / Historic)	FUELINST	Phase 2 (July 2015)
RA-1052		Half Hourly Interconnector Outturn FUELHH Generation		Phase 2 (July 2015)
RA-1053	Daily Energy Volume Data	aily Energy Volume Data INDOD, DEV Ref		Phase 2 (July 2015)
RA-1054	Non-BM STOR Instructed Volume Data	Non-BM STOR Instructed Volume Data NONBM		Phase 2 (July 2015)
RA-1055	System Frequency	System Frequency	FREQ	Phase 2 (July 2015)
RA-1056	Indicative System Price Stack Data	As below	ISPSTACK	Phase 3 (October 2016)
	(same as System prices - detailed reporting)	Indicative System Price Bid Stack Data	ISBP	
		Indicative System Price Offer Stack Data	ISSP	
RA-1057	SO-SO Prices	SO-SO Prices (Yesterday / Today / Historic)	SO-SO	Phase 2 (July 2015)
RA-1058	SO-SO Trades	SO-SO Trades		Phase 2 (July 2015)
RA-1059	System Messages	System Messages	SYSMSG	Phase 3 (October



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				2016)
RA-1060	System Warnings	System Warnings	SYSWARN	Phase 2 (July 2015)
RA-1061	BM Unit Information	BM Unit Information	Various	Phase 3 (October 2016)
RA-1062	System Warnings (Electricity summary Page)	(Derivations for Electricity summary Page)	SYSWARN	Phase 3 (October 2016)



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5 BMRS API Details

5.1 Transparency Data and REMIT (Phase 1 APIs)

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:// <host>:<port>/BMRS/B1720/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>& Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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	Mandato	ry	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 s	ervice – Respo	nse			
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	ΥΥ	YY-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			Υ	



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Document Id	String	No	NGET-EMFIP-ATL-401
Document RevNum	String	No	1

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:// <host>:<port>/BMRS/B1730/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>& Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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	
	<u>.</u>	API Web s	service – Respo	nse		
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	



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Active Flag	String	No	Υ
Document Id	String	No	NGET-EMFIP-ATL-401
Unit Of Currency	String	No	GBP
Document RevNum	String	No	1



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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:// <host>:<port>/BMRS/B1740/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 s	ervice – Respoi	nse	
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		Υ
Document Id	String		No		NGET-EMFIP-ATL-401
Document RevNum	String		No		1

5.1.4 B1750 – Activated Balancing Energy



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API service details for the flow B1750 is as follows

Service	
Name	ActivatedBalancingEnergyService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B1750/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 s	ervice – Respoi	nse	
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	Υ
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String	-	No	NA	1

5.1.5 B1760 – Prices Of Activated Balancing Energy

API service details for the flow B1760 is as follows



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Service	
Name	PricesOfActivatedBalancingEnergyService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B1760/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 – Respo	onse	
Field Name	Field Type	Rema rks	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	Υ
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:// <host>:<port>/BMRS/B1770/<versionno>?APIKey=< APIKey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 We	eb service – Res	ponse	
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

5.1.7 B1780 – Aggregated Imbalance Volumes

API service details for the flow B1780 is as follows

AggregatedImbalanceVolumesService



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Method	GET
Input URL	https:// <host>:<port>/BMRS/B1780/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 W	eb service – Resp	onse	•
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
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
Method	GET
Input URL	http:// <host>:<port>/BMRS/B1790/<versionno>?APIKey=< APIKey>&Year=<year>&Month=<month>&ServiceType=<xml csv="" xml=""></xml></month></year></versionno></port></host>
Output Format	XML/CSV

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Comments

Document Id

Unit Of Currency

Document RevNum

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 an	u Kesponse forma	t details.				
		API Web se	rvice – Requ	uest		
Logical Field Name	Field Type	Remarks	Remarks Mandatory		Format	Sample data
APIKey	String		Yes		NA	AP8DA23
Year	String		Yes		YYYY	2014
Month	String		Yes MMM		MMM	MAR
ServiceType	String		No		NA	csv/xml/CSV/XML
		API Web ser	vice – Resp	onse		
Logical Field Name	Field Type	Remarks	Mandat ory		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	YYY	Y	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	Υ
Document Id	Strina	No	NA	NGET-EMFIP-ATL-401

No

No

No

NA

NA

5.1.9 B1810 – CrossBorder Balancing Volumes of Exchanged Bids and Offers

String

String

String

API service details for the flow B1810 is as follows

Service Name	CrossBorderBalancingVolumesOfExchangedBidsandOffersService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B1810/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>& Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV





NGET-EMFIP-ATL-401

GBP

1

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:

		AP	I 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 – F	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	Υ	
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:// <host>:<port>/BMRS/B1820/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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

API Web service – Request and Response format details:

Field Name	Field Type	Remarks	Mandatory	Format	Sample data
APIKey	String	String		NA	AP8DA23
Settlement Date	String	String		YYYY-MM-DD	2014-12-31
Period	String		Yes	*/1-50	1
Service Type	String		No	NA	csv/xml
		API	Web service – R	Response	
Field Name	Field Type	Remar ks	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	Υ
Document Id	String	String		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:// <host>:<port>/BMRS/B1830/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>& Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 – F	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		

5.1.12 B0610 – Actual Total Load per Bidding Zone



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API service details for the flow B0610 is as follows

Service Name	ActualTotalLoadPerBiddingZoneService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B0610/<versionno>?APIKey=< APIKey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 serv	rice – 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 servi	ce – 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	Υ
Document Id	String		No	NA	NGET-EMFIP-ATL-401
Document RevNum	String		No	NA	1
Secondary Quantity (MAW)	String		No		50

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



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API service details for the flow B0620 is as follows

Service Name	DayAheadTotalLoadForecastPerBiddingZoneService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B0620/<versionno>?APIKey=< APIKey>&SettlementDate=<settlementdate>&Period>&ServiceType=<xml csv=""></xml></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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	e – 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
	<u>.</u>	API Web service	e – 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	Υ
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:// <host>:<port>/BMRS/B0630/<versionno>? APIKey=< APIKey>&Year=<year>&Week=<week>&ServiceType=<xml csv=""></xml></week></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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), 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	e – 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	Υ			
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 csv="" xml=""></xml></month></year></versionno></port></host>
Output Format	XML/CSV
Comments	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	Remark	s Mandator	γ	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	e – Response				
Logical Field Name	Field 7	Туре	Remarks	Mandatory		Format	Sample data	
Business Type	String			No	Ν	IA	Consumption	
Time Series ID	String			No	Ν	IA	NGET-EMFIP-ATL-0002	
Quantity	String			No			200	
Secondary Quantity (MAW)	String		No				50	
Year	int			No	YYYY		2014	
Month	String			No	M	1MM	MAR	
Week Commencing (YYYY-MM-DD)	Date			No	Υ	YYY-MM-DD	2014-01-25	
Document Type	String			No	1	AV	System total load	
Document RevNum	String			No	1	AV	2	
Process Type	String			No	1	NA	Realised	
Object Aggregation	String			No	1	NA	Area	
Resolution Str		String		No	1	AV	PT30M	
Curve Type 9				No	١	NA	Point	
Unit of Measure	String			No	١	AV	Mega watt	
Active Flag	String			No	1	NA	Υ	
Document Id	String			No	1	NA	NGET-EMFIP-ATL-401	

Service	
Name	MonthAheadTotalLoadForecastPerBiddingZoneService
Method	GET



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Input URL	https:// <host>:<port>/BMRS/B0640/<versionno>? APIKey=< APIKey>&Year=<year>&Month=<month>&ServiceType=<xml csv=""></xml></month></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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), Week Commencing (Descending)

API Web service – Request and Response format details:

		API '	Web service	e – Request		
Field Name		ield Type	Remark	Remarks Mandatory		Sample data
APIKey		tring		Yes	NA	AP8DA23
Year	S	tring		Yes	YYYY	2014
Month	S	tring		Yes	MM(01-12)	4
Service Type	S	tring		No	NA	csv/xml
	*	API V	Veb service	– Response		
Field Name	Field Ty	rpe F	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)				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 S				No	NA	Mega watt
Active Flag	String			No	NA	Υ
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	Visuali se dTabell se dEscressi De Piddio 7 co Contra
Name	YearAheadTotalLoadForecastPerBiddingZoneService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B0650/<versionno>? APIKey =< APIKey >&Year=<year>&ServiceType=<xml csv=""></xml></year></versionno></port></host>
Output Format	XML/CSV

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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: Week (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	2013		
Service Type	String		No	NA	csv/xml		
	AP]	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	Υ		
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	V 41 IF 14 16 1
Name	YearAheadForecastMarginService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B0810/<versionno>? APIKey =< APIKey >&Year=<year>&ServiceType=<xml csv=""></xml></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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)



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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
	AP1	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	Υ
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:// <host>:<port>/BMRS/B1410/<versionno>? APIKey =< APIKey >&Year=<year>&ServiceType=<xml csv=""></xml></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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					Sample data
APIKey	String		Yes	NA	AP8DA23



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Year	String		Yes	YYYY	2014
Service Type	String		No	NA	csv/xml
	API \	Neb service – I	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	Υ
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:// <host>:<port>/BMRS/B1420/<versionno>? APIKey =< APIKey >&Year=<year>&ServiceType=<xml csv=""></xml></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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
Year	String		Yes	YYYY	2014
Service Type	String		No	NA	csv/xml
	API \	Neb service – F	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



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BM UNIT ID	String	No	NA	100
Registered Resource EIC Code	String	No	NA	10T-AL-GN-000112
Voltage limit	String	No		100
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	Υ
Document Id	String	No	NA	NGET-EMFIP-ATL-401
Nominal	String	No	NA	153.2
Implementation Date	String	No	NA	2014-12-20

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:// <host>:<port>/BMRS/B1430/<versionno>? APIKey=< APIKey>&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 We	eb service – Respo	nse	
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



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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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5.1.21 B1440 – Day-Ahead Generation forecasts for Wind and Solar

API service details for the flow B1440 is as follows

Service	
Name	DayAheadGenerationforecastsForWindAndSolarService
Method	GET
Input URL	https:// <host>:<port>/BMRS/B1440/<versionno>? APIKey =< APIKey >&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 We	eb service – Respo	onse			
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		

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



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Input URL	https:// <host>:<port>/BMRS/B1610/<versionno>? APIKey =< APIKey >&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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			
	A	PI Web servic	e – 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	Υ			
Document Id	String		No	NA	NGET-EMFIP-ATL-401			
Document RevNum	String		No	NA	1			

5.1.23 B1620 – Actual Aggregated Generation perType

API service details for the flow B1620 is as follows

Service	
Name	ActualAggregatedGenerationPerTypeService



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Method	GET
Input URL	https:// <host>:<port>/BMRS/B1620/<versionno>? APIKey =< APIKey >&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 We	eb service – Respo	onse		
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	Υ	
Document Id	String		No	NA	NGET-EMFIP-ATL-401	
Document RevNum	String		No	NA	1	

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:// <host>:<port>/BMRS/B1630/<versionno>? APIKey =< APIKey >&SettlementDate=<settlementdate>&Period=<period>&ServiceType=<xml csv=""></xml></period></settlementdate></versionno></port></host>
Output Format	XML/CSV



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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 W	eb service – Requ	ıest	
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 We	eb service – Respo	onse	•
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	Υ
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:// <host>:<port>/BMRS/B0910/<versionno>? APIKey =< APIKey >&Year=<year>&ServiceType=<xml csv=""></xml></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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	
Year	Int	-	Yes	YYYY	2014	
Service Type	String		No	NA	csv/xml	
		API Web	service – Respo	nse		
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	



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Document Rev Num	String	No	NA	12
Year	int	No	NA	2014

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:// <host>:<port>/BMRS/B1320/<versionno>? APIKey=< APIKey>&SettlementDate=<settlementdate>&Period>&ServiceType=<xml csv=""></xml></settlementdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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 – Re	equest	
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 \	Neb service – Re	sponse	
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:// <host>:<port>/BMRS/B1330/<versionno>? APIKey=< APIKey>&Year=<year>&Month=<month>&ServiceType=<xml csv=""></xml></month></year></versionno></port></host>
Output Format	XML/CSV
Comments	 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 – Reques	st	
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 – Respons	se	
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:// <host>:<port>/BMRS/B0710/<versionno>? StartDate =< StartDate >& EndTime =< EndTime >& StartTime =< StartTime =< APIKey > & EndDate =< EndDate >&ServiceType=<xml csv=""></xml></versionno></port></host>
Output Format	XML/CSV
Comments	 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 – Re	equest	
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 V	Veb service – Re	sponse	•
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



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AssestEICCode	String	No	NA	registered.12345
NGC BM Unit id	String	No	NA	NA

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:// <host>:<port>/BMRS/B0720/<versionno>?StartDate=<startdate>&EndTime=<endtime>&StartTim e=<starttime>&APIKey=<apikey>&EndDate=<enddate>&ServiceType=<xml csv=""></xml></enddate></apikey></starttime></endtime></startdate></versionno></port></host>
Output Format	XML/CSV
Comments	 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	
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 W	'eb service – Res	ponse		
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	



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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:// <host>:<port>/BMRS/B1010/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndTime =<endtime>&StartTime=<starttime>&EndDate=<enddate>&ServiceType=<xml csv=""></xml></enddate></starttime></endtime></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 W	eb service – Res	ponse	_	
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	



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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

5.1.31 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:// <host>:<port>/BMRS/B1020/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndDate>&StartTime=<starttime>&EndTime=<endtime>&ServiceType=<xml csv=""></xml></endtime></starttime></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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		



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Asset Type	String	No	NA	Line
Name	String	No	NA	NG -Wales_Line-L121
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:// <host>:<port>/BMRS/B1030/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndDate=<endtime=<endtime>&ServiceType=<xml csv=""></xml></endtime=<endtime></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 W	/eb service – Res _l	ponse			
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		



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Reason Description	String	No	NA	shut down for Maintenance
Quantity	String	No		200
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:// <host>:<port>/BMRS/B1510/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndDate>&StartTime=<starttime>&EndTime=<endtime>&ServiceType=<xml csv=""></xml></endtime></starttime></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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 V	Veb 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		



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1	1 1	1	1	1
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	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	https:// <host>:<port>/BMRS/B1520/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndDate=<endtime=<endtime>&ServiceType=<xml csv=""></xml></endtime=<endtime></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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	



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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
	AF	PI Web service	e – 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:// <host>:<port>/BMRS/B1530/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndD ate=<enddate>&StartTime=<starttime>&EndTime>&ServiceType=<xml csv=""></xml></starttime></enddate></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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	ce – 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	



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Active Flag	String	No	NA	N
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:// <host>:<port>/BMRS/B1540/<versionno>?APIKey=<apikey>&StartDate=<startdate>&EndD ate=<enddate>&StartTime=<starttime>&EndTime>&ServiceType=<xml csv=""></xml></starttime></enddate></startdate></apikey></versionno></port></host>
Output Format	XML/CSV
Comments	 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	
	AF	PI Web service	e – 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	



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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



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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	URL with event(EventStart and EventEnd) details mentioned with basic filter:
	https:// <host>:<port>/BMRS/MessageListRetrieval/<versionno>?EventEnd=<eventend>&ServiceType =<xml csv="">&EventStart=<eventstart>&APIKey=<apikey></apikey></eventstart></xml></eventend></versionno></port></host>
	URL with publication(PublicationFrom and PublicationTo) details mentioned with basic filter: <a "from="" "to="" after="" and="" based="" be="" before="" between="" conditions:="" date="" datetime="" datetime"="" datetime")<="" end="" event="" events="" fetched="" following="" href="https://chost>:<port>/BMRS/MessageListRetrieval/cversionNo>?PublicationTo=<PublicationTo>&ServiceType=<xml/csv>&APIKey=<APIKey>&PublicationFrom=<PublicationFrom></th></tr><tr><th></th><th>3. URL with event(EventStart and EventEnd) details mentioned with advance filter option: https://<host>:<port>/BMRS/MessageListRetrieval/<VersionNo>?AffectedUnitID=<AffectedUnitID>&E ventEnd=<EventEnd>&ServiceType=<xml/csv>&EventStart=<EventStart>&APIKey=<APIKey>&Partici pantId=<ParticipantId>&MessageID=<MessageID>&EventType=<EventType>&FuelType></th></tr><tr><th></th><th>4. URL with publication(PublicationFrom and PublicationTo) details mentioned with advance filter option: https://<host>:<port>/BMRS/MessageListRetrieval/<VersionNo>?AffectedUnitID=<AffectedUnitID>&P ublicationTo=<PublicationTo>&ServiceType=<xml/csv>&APIKey=<APIKey>&ParticipantId=<Participan tId>&PublicationFrom=<PublicationFrom>&MessageID=<MessageID>&EventType=<EventType>&Fuel Type=<FuelType>&AssetID=<AssetID></th></tr><tr><th></th><th>Note: Different urls are possible for this service by including optional parameters.</th></tr><tr><th>Output Format</th><th>XML</th></tr><tr><th>Comments</th><th> 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%) </th></tr><tr><th></th><th>3. " in="" is="" o="" on="" or="" progress"="" start="" th="" the="" time="" will="">

API Web service – Request and Response format details:

API Web service - Request						
Field Name Field Type Remarks Mandatory Sample data						
Affected Unit Id	String		No	Asset1234		



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Service Type	String		No	xml/csv
API Key	String		Yes	AP8DA123
Participant Id	String		No	UMM-01-01212
PublicationFrom	String		No	2014-12-31
PublicationTo	String		No	2014-12-31
EventStart*	String		No	2001-12-31
EventEnd*	String		No	2001-12-31
Message Id	String		No	ELXP-RMT-Remit_FinalACK
Event Type	String		No	Planned Outage
Asset Id	String		No	Asset1234
Fuel Type	String		No	CCGT
	API Web se	rvice - Respor	nse	
Field Name	Field Type	Remarks	Mandatory	Sample data
Participant Id	String		No	T_PSEGEN1
Message Id	String		No	101
Message Heading	String		No	EXAMGEN-1
Sequence Id	Int		No	2
Asset Id	String		No	T_PSEGEN6
Asset EIC Code	String		No	10T-AL-WS-000101
Asset Type	String		No	Production
Affected Unit	String		No	G32
Affected Area	String		No	B6
Published DateTime	String		No	2014-03-18 14:00:00Z
Asset Fuel Type	String		No	COAL
Asset Normal Capacity	String		No	30.45
Event Type	String		No	FAILURE
Available Capacity	String		No	10.7
Event Status	String		No	CANCELLED
Duration Uncertainty	String		No	a day extra
Cause	String		No	Active
Related Information	String		No	Successful
Revision Number	String		No	2
Event start	String		No	2001-12-31 12:00:00Z
Event end	String		No	2001-12-31 15:00:00Z
Active Flag	String		No	Υ

^{*} applicable only for Elexon portal

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.



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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	1.URL with message id and participant id mentioned https:// <host>:<port>/BMRS/MessageDetailRetrieval/<versionno>?ServiceType=<servicety pe="">&APIKey=<apikey>&MessageId=<messageid>&ParticipantId=<participantid> 2.URL with message id ,participant id,active flag mentioned https://<host>:<port>/BMRS/MessageDetailRetrieval/<versionno>?ServiceType=<servicety pe="">&APIKey=<apikey>&MessageId=<messageid>&ParticipantId=<participantid>&ActiveFla g=<activeflag> 3.URL with message id, sequence id, Participant id mentioned https://<host>:<port>/BMRS/MessageDetailRetrieval/<versionno>?ServiceType=<servicety pe="">&APIKey=<apikey>&ParticipantId=<participantid>&SequenceId=<sequenceid>&MessageId=<messageid></messageid></sequenceid></participantid></apikey></servicety></versionno></port></host></activeflag></participantid></messageid></apikey></servicety></versionno></port></host></participantid></messageid></apikey></servicety></versionno></port></host>
Output Format	XML

API Web service – Request and Response format details:

API Web service - Request							
Field Name	Field Type	Remarks	Mandatory	Sample data			
APIKey	String		Yes	AP8DA23			
Service Type	String		No	xml/csv			
Participant Id	String		Yes	UMM-01-01212			
Sequence Id	String		No	2			
Message Id	String		Yes	101			
Active Flag	String		No	Y			
	,	API Web servi	ce - Response				
Field Name	Field Type	Remarks	Mandatory	Sample data			
Participant Id	String		No	UMM-01-01212			
Asset Id	String		No	T_PSEGEN1			
Sequence Id	Int		No	2			
Message Id	String		No	101			
Message Heading	String		No	EXAMGEN-1			
Published DateTime	String		No	2014-03-18 14:00:00Z			
Event Type	String		No	FAILURE			
Asset EIC Code	String		No	10T-AL-WS-000101			



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Asset Id	String	No	Asset1234	
Asset Type	String	No	Production	
Affected Unit	String	No	G32	
Affected Area	String	No	B6	
Asset Fuel Type	String	No	COAL	
Asset Normal Capacity	String	No	30.45	
Event Status	String	No	CANCELLED	
Event Start	String	No	2014-03-20 13:00:00Z	
Event End	String	No	2014-03-20 13:30:00Z	
Available Capacity	String	No	4.56	
Duration Uncertainty	String	No	a day extra	
Cause	String	No	Planned Outage	
Active Flag	String	No	Υ	
Related Information	String	No	Planned outage for routine maintenance	
Revision Number	String	No	001	

5.2 Existing BMRS Data (Phase 2 APIs)

5.2.1 Temperature Data

API service details for the flow is as follows

Service Name	temperatureDataService
Method	GET
Input URL	https:// <host>:<port>/BMRS/TEMP/<versionno>?APIKey=<apikey>&FromDate=<fromdate >&ToDate =<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate </apikey></versionno></port></host>
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

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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
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	-	Υ

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



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High Reference	Double	-	No	-	12.5
Temperature					

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



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:// <host>:<port>/BMRS/BOD/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&SettlementPeriod=<settlementperiod>&BMUnitId=<bmunitid>&BMUnitType=<bmunittype>&LeadPartyName=<leadpartyname>&NGCBMUnitName=<ngcbmunitname>&ServiceType=<xml csv="" xml=""></xml></ngcbmunitname></leadpartyname></bmunittype></bmunitid></settlementperiod></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: BM Unit Id (Ascending), BM Offer Pair Number (Descending), From Time (Ascending) Input data flow: BOD For other common description refer section 3.2
Comments	 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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	"BOD"
BM Unit Id	String	1	No	-	2AEENG000, G, E.ON Energy Solutions Limited, EAS-EST01
BM Unit Type	String	1	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
BOT,T_GENSET176, 20001016,5,3,20001016173000,10.000,20001016180000,10.000,50.00000,55.00000
BOT,T_GENSET176, 20001016,5,3,20001016173000,10.000,20001016180000,10.000,50.00000,55.00000

5.2.3 Credit Default Notice Data

API service details for the flow is as follows

Service Name	creditDefaultNoticeDataService
Method	GET
Input URL	https:// <host>:<port>/BMRS/CDN/<versionno>?APIKey=<apikey>&FromClearedDate=<fromcleareddate>&ToClearedDate=<tocleareddate>&ServiceType=<xml csv="" xml=""></xml></tocleareddate></fromcleareddate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Participant ID (ascending), 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. Input data flow: CDN
Comments	Default Value (if none specified): From Cleared Date = Current System Date (i.e. Today) – 30 (configurable) To Cleared Date = NULL

API Web service - Request and Response format details:



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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
		-	No		1
Credit Default Level	Integer			1.1.1.1 -	
		-	No		20030224
Entered Default				1.1.1.2 YYYY	
Settlement Date	Date			MMDD	
Energy Default		-	No		2
Settlement Period	Integer			1.1.1.3 -	
		-	No		20030224
Cleared Default				1.1.1.4 YYYY	
Settlement Date	Date			MMDD	
Cleared Default	Integer	-	No	-	21



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Settlement Period					
		-	No		Credit Cover Percentage <= 75%
Cleared Default Text	String			-	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	https:// <host>:<port>/BMRS/SYSWARN/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&T oDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Warning Date/Time (Ascending) 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	1.1.1.5 YYYY-MM-DD HH:MM	2014-10-26 22:23
Warning Text	String	-	No	-	Text Data
Active Flag	String	-	No	-	Υ

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
RecordType	String	-	No	-	SYSWARN
Warning Date/Time	Date	1	No	1.1.1.6 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

5.2.5 Balancing Services Adjustment Action Data

API service details for the flow is as follows

Service Name	balancingServicesAdjustmentActionDataService
Method	GET



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Input URL	https:// <host>:<port>/BMRS/DISBSAD/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate >&SettlementPeriod=<settlementperiod>&ServiceType=<xml csv="" xml=""></xml></settlementperiod></settlementdate </apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: DISBSAD
Comments	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

 $\label{lem:approx} \mbox{API Webservice} - \mbox{Response} - \mbox{BalancingServicesAdjustmentActionData}$

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	Remark s	Mandator y	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	-	Т
Balancing Services Adjustment Action STOR Provider Flag	String	-	No	-	
Action Cost	Double	-	No	-	1031.53
Action Volume	Double	-	No	-	150.25
Active Flag	String	-	No	-	Υ



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CSV Download Service

Logical Field Name	Field Type	Remark s	Mandator y	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	-	Т
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	http:// <host>:<port>/BMRS/ NETBSAD /<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>& SettlementPeriod =< SettlementPeriod >&IsTwoDayWindow=<istwodaywindow>&ServiceType=<xml csv="" xml=""></xml></istwodaywindow></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: NETBSAD For other common description refer section 3.2
Comments	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

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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
Active Flag	String	-	No	-	Υ

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



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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.

Example File

HDR,BALANCING SERVICES ADJUSTMENT DATA BSAD,20140418,1,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0 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	https:// <host>:<port>/BMRS/FREQ/<versionno>?APIKey=<apikey>&FromDateTime=<fromdatetime>&T oDateTime=<todatetime>&ServiceType=<xml csv="" xml=""></xml></todatetime></fromdatetime></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Date (Ascending), SpotTime (Ascending) Input data flow: FREQ
Comments	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



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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"

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	1.1.1.7 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	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	VD	VD
DateTime	Date	-	No	1.1.1.8 YYYYMMDDHHMM SS	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



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FREQ,20080428172500,49.432

FTR,5

5.2.8 Market Index Data

API service details for the flow is as follows

Service Name	marketIndexDataService
Method	GET
Input URL	https:// <host>:<port>/BMRS/MID/<versionno>?APIKey=<apikey>&FromSettlementDate=<fromsettlementdate>&FromSettlementDate=<fromsettlementdate>&Period>&ServiceType=<xml csv="" xml=""></xml></fromsettlementdate></fromsettlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Data Provider (Alphabetic Ascending), Settlement Date (Ascending) ,Settlement Period (Ascending) Input data flow: MID
Comments	 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	-	Υ

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	https:// <host>:<port>/BMRS/DEVINDOD/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate e=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV



Description	 Default Sorting: Settlement Day (Ascending) Input data flow: INDOD
Comments	1. Default Value (if none specified): From Date= Current System date-90 days To Date= Current System Date

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

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	https:// <host>:<port>/BMRS/NONBM/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date(Ascending), Settlement Period (Ascending) Input data flow: NONBM
Comments	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



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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"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	NONBM
Settlement Date	Date	-	No	1.1.1.9 YYYY-MM-DD	2014-08-11
Settlement Period	Integer	-	No	1.1.1.10 -	1 to 50
SystemZone	String	-	No	-	Always N
NONBM Publish Time	Date	-	No	1.1.1.11 YYYY-MM-DD HH:MM:SS	2014-08-10 15:22:00
Instructed Volume (MWh)	Integer	-	No	-	12345
Active Flag	String	-	No	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	NONBM
Settlement Date	Date	-	No	1.1.1.12 YYYYMMDD	20140811
Settlement Period	Integer	-	No	1.1.1.13 -	1 to 50
SystemZone	String	-	No	-	Always N
NONBM Publish Time	Date	-	No	1.1.1.14 YYYYMMDDHH MMSS	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.



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Example File:

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

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 csv="" xml=""></xml></ngcbmunitname></leadpartyname></bmunittype></bmunitid></settlementperiod></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Period (Ascending) Input data flow: QAS For other common description refer section 3.2
Comments	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 Ty	ре	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	-	Υ		

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

5.2.12 Rolling System Demand

API service details for the flow is as follows

Service Name	rollingSystemDemandService
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Method	GET
Input URL	https:// <host>:<port>/BMRS/ROLSYSDEM/<versionno>?APIKey=<apikey>&FromDate=<fromdate >&ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate </apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Date (Ascending), Time (Ascending) 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 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 - 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	-	Υ

CSV Download Service:

Logica Name	l Field	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record	Туре	String	-	No	VD	VD



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Date	String	-	No	YYYYMMDDHHMMSS	20131024101010
Demand(MW)	Integer	-	No	Derived data = Sum of demand across all	50000
				the Fuel type (N0509)	

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:// <host>:<port>/BMRS/WINDFORPK/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate>&ServiceType=<xml csv="" xml=""></xml></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Date (Ascending) Input data flow: WINDFOR
Comments	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	1	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

API Webservice - Response - Peak Wind Generation Forecast



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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	1.1.1.15 YYYY- MM-DD	2014-10-10
Time of Maximum Wind Generation	Date	-	No	1.1.1.16 HH:MM	14:00
Peak (Max) MW	Integer	-	No	-	123
Total Metered Capacity (MW)	Integer	-	No	-	456
Data Last updated	Date	-	No	1.1.1.17 YYYY- MM-DD HH:MM	2014-10-1010:10
Active Flag	String	-	No	-	Υ

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
RecordType	String	-	No	-	WINDFORPK
Day & Date	Date	-	No	1.1.1.18 YYYYMMD	20141212
Time of Maximum Wind Generation	Date	-	No	1.1.1.19 HHMM	1400
Peak (Max) MW	Integer	-	No	1.1.1.20 -	123
Total Metered Capacity (MW)	Integer	-	No	1.1.1.21 -	456
Data Last updated	Date	-	No	1.1.1.22 YYYYMMD DHHMM	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	https:// <host>:<port>/BMRS/WINDFORFUELHH/<versionno>?APIKey=<apikey>&FromDate=<fromdate> &ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Date (Ascending), Settlement Period (Ascending) Input data flow: WINDFOR, FUELHH
Comments	 If data for a column not available for a row, it is displayed as "NULL" 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	String	-	No	YYYY-MM-DD	2008-04-27 17:00:00
(Out-turn)				HH:MM:SS	
Outturn Generation (MW)	String	-	No	-	-
Active Flag	String	-	No	-	Υ

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:// <host>:<port>/BMRS/FUELINSTHHCUR/<versionno>?APIKey=<apikey>&FuelType=<fueltype>&S erviceType=<xml csv="" xml=""></xml></fueltype></apikey></versionno></port></host>
Output Format	XML/CSV



Description	 Default Sorting: GB Generating Plant (Ascending) Input data flow: FUELINST, FUELHH
	 If no value is specified for fuel type then it will imply all Fuel Types Any value from "Fuel Type Set" (Ref: IDD Valid Sets)
Comments	3. All negative values are capped to zero.
	4. INT which implies interconnectors (INTFR OR INTIRL OR INTNED OR INTEW)

API Web service – Request and Response format details:

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

Logical Field Name	I Field Name Field Type		Mandatory	Format	Sample data
ApiKey	String	1	Yes	-	AP8DA23
FuelType	String	1	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
Current MW	Integer	-	No	-	12472
Current %age	Double	-	No	-	39.2
Current Total MW	Integer	-	No	-	31854
Current Total %	Double	-	No	1.1.1.23 -	100
Last Half Hour	Date	-	No	1.1.1.24 YYYY-MM- DD HH:MM:SS	2014-07-29 13:00:00
Last Half Hour MW	Integer	-	No	1.1.1.25 -	12522
Last Half Hour %age	Double	-	No	1.1.1.26 -	39.3
Last Half Hour Total MW	Integer	-	No	-	31825



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		-	No		
Last Half Hour Total %	Double			1.1.1.27 -	100
		-	No		
				1.1.1.28 YYYY-MM-	
Last 24 Hours	Date			DD HH:MM:SS	2014-07-29 13:00:00
		-	No		
Last 24 Hours MW	Integer			1.1.1.29 -	273320
		-	No		
Last 24 Hours %age	Double			1.1.1.30 -	37.3
Last 24 Hours Total		-	No		
MW	Integer			1.1.1.31 -	733475
		-	No		
Last 24 Hours Total %	Double			1.1.1.32 -	100
		-	No		
				1.1.1.33 YYYY-MM-	
Data Last Updated	Date			DD HH:MM:SS	2014-07-29 13:00:00
Active Flag	String	-	No	-	Υ

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	1.1.1.34 YYYYMMD DHHMMSS	20140729130000
Last Half Hour MW	Integer	-	No	1.1.1.35 -	12522
Last Half Hour %age	Decimal	-	No	1.1.1.36 -	39.3
Last Half Hour Total MW	Integer	-	No	1.1.1.37 -	31825
Last Half Hour Total %	Decimal	-	No	1.1.1.38 -	100
Last 24 Hours	Date	-	No	1.1.1.39 YYYYMMD DHHMMSS	20140729130000
Last 24 Hours MW	Integer	-	No	1.1.1.40 -	273320
Last 24 Hours %age	Decimal	-	No	1.1.1.41 -	37.3
Last 24 Hours Total MW	Integer	-	No	1.1.1.42 -	733475
Last 24 Hours Total %	Decimal	-	No	1.1.1.43 -	100
Data Last Updated	Date	-	No	1.1.1.44 YYYYMMD DHHMMSS	20140729130010



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Example File:

HDR, GENERATION BY FUEL TYPE CURRENT

FUELINSTHHCUR,CCGT,1523,96.9,153,100.0,20141202131502,145,93.9,786,100.0,20141212140002,486,17.9,475,100.0,Y,2014 1214150000

FUELINSTHHCUR,COAL,78954,78.6,954,100.0,20141102131502,354,96.3,516,100.0,20141112140002,954,82.7,127,100.0Y,2014 1216150000

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	https:// <host>:<port>/BMRS/FUELINST/<versionno>?APIKey=<apikey>&FromDateTime=<fromdatetime >&ToDateTime=<todatetime>&ServiceType=<xml csv="" xml=""></xml></todatetime></fromdatetime </apikey></versionno></port></host>
Output Format	XML/CSV
	1. Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending)
Description	2. Input data flow: FUELINST
Comments	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"



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Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "FUELINST"
		-	No		
Settlement Date	Date			1.1.1.45 YYYY-MM- DD	2014-12-12
Settlement Period	Integer	-	No	1.1.1.46 -	43
Spot Time	Date	-	No	1.1.1.47 YYYY-MM- DD HH:MM:SS	2008-04-28 17:05:03
CCGT	Integer	-	No	1.1.1.48 -	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
Active Flag	String	-	No	-	Υ

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	1.1.1.49 YYYYMMDD	20080428
Settlement Period	Integer	-	No	1.1.1.50 -	43
		-	No	1.1.1.51 YYYYMMDDH	
Spot Time	Date			HMMSS	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



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OTHER	Integer	-	No	-	12032
INTFR	Integer	-	No	-	12032
INTIRL	Integer	-	No	-	12032
INTNED	Integer	-	No	-	12032
INTEW	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.
- FromDateTime should not be greater than ToDateTime. 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
FUELINST,20080428,37,20080428171007,18134,1849,0,15312,7307,181,16,14,0,52,150,13,17
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	https:// <host>:<port>/BMRS/FUELHH/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate= <todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 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:

body Record .			Mandaton		
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "FUELHH"
		-	No		
Settlement Date	Date			1.1.1.52 YYYY-MM-DD	2014-12-12
Settlement Period	Integer	-	No	-	43
CCGT	Integer	-	No	-	12032
OIL	Integer	1	No	-	12032
COAL	Integer	ı	No	-	12032
NUCLEAR	Integer	1	No	-	12032
WIND	Integer	1	No	-	12032
PS	Integer	1	No	-	12032
NPSHYD	Integer	1	No	-	12032
OCGT	Integer	1	No	-	12032
OTHER	Integer	ı	No	-	12032
INTFR	Integer	-	No	-	12032
INTIRL	Integer	-	No	-	12032
INTNED	Integer	-	No	-	12032
INTEW	Integer	-	No	-	12032
Active Flag	String	-	No	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	ı	NO	-	Fixed string value "FUELHH"
		-	NO		
Settlement Date	Date			1.1.1.53 YYYYMMDD	20080428
Settlement Period	Integer	ı	NO	-	43
CCGT	Integer	-	NO	-	12032
OIL	Integer	-	NO	-	12032
COAL	Integer	ı	NO	-	12032
NUCLEAR	Integer	-	NO	-	12032
WIND	Integer	-	NO	-	12032
PS	Integer		NO	-	12032
NPSHYD	Integer	-	NO	-	12032



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OCGT	Integer	-	NO	-	12032
OTHER	Integer	-	NO	-	12032
INTFR	Integer	-	NO	-	12032
INTIRL	Integer	-	NO	-	12032
INTNED	Integer	-	NO	-	12032
INTEW	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 FUELHH,20080428,2,18134,1849,0,15312,7307,181,16,14,0,52,150,22,16 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	https:// <host>:<port>/BMRS/INTERFUELHH/<versionno>?APIKey=<apikey>&FromDate=<fromdate> &ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Date (Ascending), Settlement Period (Ascending) Input data flow: FUELHH
Comments	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
From Date	String	-	No	YYYY-MM-DD	2014-12-31
To Date	String	-	No	YYYY-MM-DD	2014-12-31

API Webservice – Response-HalfHourlyInterConnectorOutturnGeneration



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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	1.1.1.54 YYYY-MM-DD	2014-10-26
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
Active Flag	String	-	No	-	Υ

CSV Download Service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	INTOUTHH
Settlement Date	Date	-	No	1.1.1.55 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	Integer	-	No	-	852



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with the Netherlands					
INTEW - External Interconnector flows with Ireland (East-West)	Integer	-	No	-	278

Example File

HDR,HALF HOURLY INTERCONNECTOR OUTTURN GENERATION INTOUTHH,20080428,1,55,152,23,32 INTOUTHH,20080428,2,52,150,22,21 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	https:// <host>:<port>/BMRS/NOU2T14D/<versionno>?APIKey=<apikey>&ServiceType=<xml cs<br="" csv="" xml="">V></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending) Input data flow: NOU2T14D
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days). 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.

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



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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	-	Υ

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

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	https:// <host>:<port>/BMRS/FOU2T14D/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Fuel Type (Ascending), Settlement Date (Ascending) Input data flow: FOU2T14D
Comments	Records are retrieved for date ranges between (Currentdate + 2 days) to (Currentdate + 14 days)



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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	Remarks	Mandatory	XML Format	Sample data
	Туре				
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'
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Υ

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 FTR,4



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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	https:// <host>:<port>/BMRS/UOU2T14D/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: BM Unit Id (Ascending), Fuel Type (Ascending) 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'
Settlement Date	Date	-	No	YYYY-MM-DD	2014-07-29
Output Usable	Integer	-	No	-	10000
Active Flag	String	-	No	-	Υ



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

FTR,4

5.2.22 National Output Useable (2- 52 Weeks Ahead)

UOU2T14D,INTFR, INTFR, 201001021550,N,20100204,150

API service details for the flow is as follows

Service Name	nationalOutputUsable2T52WeeksService
Method	GET
Input URL	https:// <host>:<port>/BMRS/NOU2T52W/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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	1	No	1.1.1.56 YYYY-MM-DD HH: MM:SS	2014-07-08 10:59:00
System Zone	String	1	No	1.1.1.57 -	N
Calendar Week Number	Integer	-	No	1.1.1.58 -	1
Calendar Year	Integer	-	No	YYYY	2017
Output Usable	Integer	-	No	-	69163
Active Flag	String	-	No	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	NOU2T52W
Publication Time	Date	-	No	1.1.1.59 YYYYMMDDHHMMSS	20140708105900
System Zone	String	-	No	1.1.1.60 -	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	https:// <host>:<port>/BMRS/FOU2T52W/<versionno>?APIKey=<apikey>&ServiceType=<xml cs<br="" csv="" xml="">V></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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'
Calendar Week Number	Integer	-	No	-	1
Calendar Year	Integer	-	No	YYYY	2017



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Output Usable	Integer	-	No	-	100
Active Flag	String	-	No	-	Υ

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	1.1.1.61 -	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,COAL,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	https:// <host>:<port>/BMRS/UOU2T52W/<versionno>?APIKey=<apikey>&ServiceType=<xml x<br="">ML/csv/CSV></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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'
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	1.1.1.62 YYYYMMDDHHMMSS	20100102155012
System Zone	String	-	No	-	Always 'N'
Calendar Week Number	Integer	-	No	-	1

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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,OIL,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	https:// <host>:<port>/BMRS/NOUY1/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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"
File Type	Fixed string value "NATIONAL OUTPUT USABLE MW BASED ON OC2 (YEAR 1) 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 "NOUY1"
Publication Time	Date	-	No	1.1.1.63 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	-	Υ

CSV Download Service:

C34 D0Wilload Selvi	ice.				
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	https:// <host>:<port>/BMRS/NOUY2/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Calendar Week Number (Ascending) 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	1.1.1.64 YYYY- MM-DD HH:MM:SS	2014-07-08 10:59:00
System Zone	String	-	No	N	N
Calendar Week	Integer	-	No	-	1



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

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	1.1.1.65 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	https:// <host>:<port>/BMRS/NOUY3/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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	1.1.1.66 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	-	Υ

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	1.1.1.67 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	https:// <host>:<port>/BMRS/NOUY4/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Calendar Week Number (Ascending) 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:

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"





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	1.1.1.68 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 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	https:// <host>:<port>/BMRS/NOUY5/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV



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Description	 Default Sorting: Calendar Week Number (Ascending) 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	1.1.1.69 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	-	Υ

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	1.1.1.70 YYYYMMD	20140708105900





				DHHMMSS	
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	https:// <host>:<port>/BMRS/ZOU2T14D/<versionno>?APIKey=<apikey>&ServiceType=<xml <br="">XML/csv/CSV></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), System Zone (Ascending) 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
-----------	--

Body Records:

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

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	https:// <host>:<port>/BMRS/ZOU2T52W/<versionno>?APIKey=<apikey>&ServiceType=<xml cs<br="" csv="" xml="">V></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Calendar year (Ascending), : Calendar Weeks (Ascending), System Zone (Ascending) Input data flow: ZOU2T52W
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 -ZoneOutputUsable2T14Days

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



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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	-	Υ

CSV Download service:

Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	ZOU2T52W
Publishing Period Date	Date	-	No	1.1.1.71 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	https:// <host>:<port>/BMRS/ZOUY1/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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	-	Υ

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	https:// <host>:<port>/BMRS/ZOUY2/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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:

 $\label{lem:approx} \mbox{API Webservice} - \mbox{Request} - \mbox{ZonalOutputUsableDataTwoYearService}$

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	-	Υ

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	https:// <host>:<port>/BMRS/ZOUY3/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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	ı	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	ı	No	-	1
Calendar Year	Integer	-	No	-	2011
Output Usable	Integer	-	No	-	14120



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Active Flag	String	-	No	-	Υ

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	https:// <host>:<port>/BMRS/ZOUY4/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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:

 $\label{lem:approx} \mbox{API Webservice} - \mbox{Request} - \mbox{ZonalOutputUsableDataFourYearService}$

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	-	Υ

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

5.2.36 Zonal Output Useable Data for 5 Year Ahead

API service details for the flow is as follows

Service Name	zonalOutputUsableDataFiveYearService
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Method	GET
Input URL	https:// <host>:<port>/BMRS/ZOUY5/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Calendar Week Number (Ascending), Zone (Ascending) 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	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
i					



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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	https:// <host>:<port>/BMRS/INDOITSDO/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: INDO, ITSDO.
Comments	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:

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		
				1.1.1.72 YYYY-MM-DD	2014-10-26
Settlement Period	Integer	-	No		1
				1.1.1.73 -	
SystemZone	String	-	No	-	N
Record Type	String	-	No		INDO
				1.1.1.74 -	
Publish Time	Date	-	No		2014-10-25 23:30:00
1 abiisii Tiiric	Date			1.1.1.75 YYYY-MM-DD HH:MM:SS	2011 10 25 25.50.00
Demand	Integer	-	No		23039
Demanu	Integel			1.1.1.76 -	23033
Active Flag	String	-	No	-	Υ

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	1.1.1.77 -	1
SystemZone	String	-	No	-	N
Publish Time	Date	-	No	1.1.1.78 YYYYMMDDHHMMSS	20141025233000
Demand	Integer	-	No	1.1.1.79 -	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

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	https:// <host>:<port>/BMRS/MELIMBALNGC/<versionno>?APIKey=<apikey>&ZoneIdentifier =<zoneidentifier>&FromDate=<fromdate>&ToDate>&ServiceType=<xml <br="" csv="" xml="">CSV></xml></fromdate></zoneidentifier></apikey></versionno></port></host>			
Output Format	XML/CSV			



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Description	Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: IMBALNGC, MELNGC
Comments	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
Settlement Date	Date	-	No	-	2014-08-11
Settlement Period	Integer	-	No	-	1 to 50
Record Type	String	-	No	1.1.1.80 -	Fixed string value -"DAM" or "DAI"
Publish Time	Date	-	No	1.1.1.81 YYY Y-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	1.1.1.82 -	26223
Active Flag	String	-	No	-	Υ

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	1.1.1.83 -	Fixed string value -"DAM" or "DAI"
Publish Time	Date	-	No	1.1.1.84 YYYY MMDD 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

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		



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Input URL	https:// <host>:<port>/BMRS/FORDAYDEM/<versionno>?APIKey=<apikey>&ZoneIdentifier=<zoneidentifier>&FromDate=<fromdate>&ToDate=<todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></zoneidentifier></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) Input data flow: NDF, TSDF, INDDEM, INDGEN
Comments	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
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	Integer	-	No	-	9861



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NGeneration					
Active Flag	String	-	No	-	Υ

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	https:// <host>:<port>/BMRS/DEMMF2T14D/<versionno>?APIKey=<apikey>&ServiceType=<xml <br="">XML/csv/CSV></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Settlement Date (Ascending), Settlement Period (Ascending) 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:



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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	1.1.1.85 YYYY- MM-DD	2014-10-29
Settlement Period	Integer	-	No	1.1.1.86 -	1
Boundary ID	String	-	No	1.1.1.87 -	Always is "N"
Record Type	String	-	No	1.1.1.88 -	DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for OCNMFD2)
Publication Time	Date	-	No	1.1.1.89 YYYY- MM-DD HH:MM:SS	2014-10-26 14:45:00
demand/marg in	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	-	Υ

CSV Download Service:

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Settlement Date	Date	-	No	1.1.1.90 YYYYM MDD	20141029
Settlement Period	Integer	-	No	1.1.1.91 -	1
Boundary ID	String	-	No	1.1.1.92 -	Always is "N"
Record Type	String		No	1.1.1.93 -	DSN (for NDFD)or DST (for TSDFD)or DSM (for OCNMFD)or OCNMFD2 (for





					OCNMFD2)
Publication Time	Date	-	No	1.1.1.94 YYYYM MDDHHMMSS	20141026144500
demand/marg in	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	https:// <host>:<port>/BMRS/DEMMF2T52W/<versionno>?APIKey=<apikey>&ServiceType=<x ml/XML/csv/CSV></x </apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Record Type, 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:

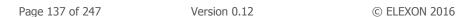
API Webservice – Request DemandAndSurplusForecastData2T52Weeks

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

 $API\ Webservice-Response\ -Demand And Surplus Forecast Data 2T52 Weeks$

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	1.1.1.95 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	1.1.1.96 -	49500
Active Flag	String	-	No	-	Υ

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
Week Number	Integer	-	No	-	46
Boundary ID	String	-		-	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	1.1.1.97 YYYYMMD DHHMMSS	20141016134500
demand/margin	Integer	Depending upon Record type If it is WN,WT we will get Demand value else if it is	No	1.1.1.98 -	49500



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WM,OCNMFW 2 we will get Margin value.		
Margin value.		

Example File

HDR,FORECAST 2 TO 52 WEEKS AHEAD DEMAND AND MARGIN DATA WN,44,N,20001013170000,36000 WN,45,N,20001013170000,37000 OCNMFW2,44,N,20001013170000,17830 OCNMFW2,45,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:// <host>:<port>/BMRS/SOSOP/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate> &StartTime=<starttime>&TradeType=<tradetype>&IsTwoDayWindow=<istwodaywindow>&ServiceType =<xml csv="" xml=""></xml></istwodaywindow></tradetype></starttime></settlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Start Time (Ascending) 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
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)



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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	-	Υ

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 Identification	String	-	No	-	NG_20140908_2300_20
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



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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	https:// <host>:<port>/BMRS/SOSOT/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 Default Sorting: Warning Date/Time (Ascending) 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"

Body Record:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample values
RecordType	String	-	No	-	SOSOT
Warning Date/Time	Date	1	No	1.1.1.99 YYYY-MM-DD HH:MM	2014-12-31 13:31
Message Text	String	-	No	-	National Grid Notification
Active Flag	String	-	No	-	Υ

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CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample values
RecordType	String	-	No	-	SOSOT
Warning Date/Time	Date	ı	No	1.1.1.100 YYYYMMDDHHMM	201412311331
Message Text	String	-	No	-	National Grid Notification



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5.3 Existing BMRS Data (Phase 3 APIs)

5.3.1 Peak Demand – Yesterday/Today/Tomorrow

API service details for the flow is as follows

Service Name	peakDemandService
Operation Name	peakDemandImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/PKDEMYESTTDYTOM/<versionno>?APIKey=<apikey>&Service Type=<xml csv="" xml=""></xml></apikey></versionno></port></host>
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

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"



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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	-	Υ

CSV Download service

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



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Active Flag	String	-	No	-	Υ

5.3.2 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	https:// <host>:<port>/BMRS/INDPKDEMINFO/<versionno>?APIKey=<apikey> &ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
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)

Logical Field Name	Field Type	Remarks	Mandatory	Format	Sample data
ApiKey	String	•	Yes	ı	AP8DA23
Service Type	String	-	No	ı	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 "3HIGHDEMSOFAR"
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	-	Υ

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	-	Υ

CSV Download service

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

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	-	Υ



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5.3.3 System Demand

API service details for the flow is as follows

Service Name	systemDemandService
Operation Name	systemDemandImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/SYSDEM/<versionno>?APIKey=<apikey>&FromDate=<fromdate>&ToDate><todate>&ServiceType=<xml csv="" xml=""></xml></todate></fromdate></apikey></versionno></port></host>
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:

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



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Record Type	String	-	No	-	Fixed string value "TSDF"
GB Demand (MW)	Integer	-	No	-	35469
Active Flag	String	-	No	-	Υ

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	-	Υ

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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5.3.4 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	https:// <host>:<port>/BMRS/INDTRIADDEMINFO/<versionno>?APIKey=<apikey>&ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
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



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Active Flag	String	-	No	-	Υ

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	-	Υ

5.3.5 Physical Data

API service details for the flow is as follows

Service Name	physicalBMDataService
Operation Name	physicalBMDataImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/PHYBMDATA/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate=<settlementdate=<settlementperiod=<settlementperiod>&BMUnitId=<bmunitid>&BMUnitType=<bmunittype>&LeadPartyName=<leadpartyname>&NGCBMUnitName=<ngcbmunitname>&ServiceType=<xml csv="" xml=""></xml></ngcbmunitname></leadpartyname></bmunittype></bmunitid></settlementdate=<settlementdate=<settlementperiod=<settlementperiod></apikey></versionno></port></host>
Output Format	XML/CSV
Description	 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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

QPN Data:

Logical Field Fie	eld Type	Remarks	Mandatory	XML Format	Sample data
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Record Type	String	-	No] -	"QPN"
BM Unit Id	String	-	No	-	2AEENG000, 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	-	Υ

MEL Data:

Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	"MEL"
BM Unit Id	String	-	No	-	2AEENG000, 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	-	Υ



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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	-	2AEENG000, 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	-	Υ	

BOALF Data:						
Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data	
Record Type	String	-	No	-	"BOALF"	
BM Unit Id	String	-	No	-	2AEENG000, 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	String	-	No	-	
Flag					
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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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	-	2AEENG000, 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, 2AAEPD000
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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5.3.6 Dynamic Data

API service details for the flow is as follows

Service Name	dynamicDataService
Operation Name	dynamicDataImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/DYNBMDATA/<versionno>?APIKey=<apikey>&SettlementDate= <settlementdate>&SettlementPeriod=<settlementperiod>&BMUnitId=<bmunitid>&BMUnitType =<bmunittype>&LeadPartyName=<leadpartyname>&NGCBMUnitName=<ngcbmunitname>& ServiceType=<xml csv="" xml=""></xml></ngcbmunitname></leadpartyname></bmunittype></bmunitid></settlementperiod></settlementdate></apikey></versionno></port></host>
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	-	2AEENG000, 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	-	2AEENG000, 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	-	Υ

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, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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	-	Υ

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	-	2AEENG000, 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	-	Υ

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



NGC BM Unit Name	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDDHHM	20140303130025



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				MSS	
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

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	-	2AEENG000, 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, 2AAEPD000
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

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	-	2AEENG000, 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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					2AAEPD000
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

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	-	2AEENG000, 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	-	2AEENG000, 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	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, 2AAEPD000
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, 2AAEPD000
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
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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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	YYYYMMDDHHM MSS	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	-	2AEENG000, 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, 2AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Time	Date	-	No	YYYYMMDD HHMMSS	20140303130025
Period	Double	-	No	-	240.000



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5.3.7 Derived BM Unit Data

API service details for the flow is as follows

Service Name	derivedBMUnitDataService
Operation Name	derivedBMUnitDataImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/DERBMDATA/<versionno>?APIKey=<apikey>&SettlementDate=< SettlementDate>&SettlementPeriod=<settlementperiod>&BMUnitId=<bmunitid>&BMUnitType= <bmunittype>&LeadPartyName=<leadpartyname>&NGCBMUnitName=<ngcbmunitname>&ServiceType=<xml csv="" xml=""></xml></ngcbmunitname></leadpartyname></bmunittype></bmunitid></settlementperiod></apikey></versionno></port></host>
Output Format	XML/CSV
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	-	2AEENG000, 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, 2AAEPD000
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"



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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"
BM Unit Id	String	-	No	-	2AEENG000, 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, 2AAEPD000
Settlement Date	String	-	No	YYYY-MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2AEENG000, 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, 2AAEPD000
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	-	-



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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	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
Settlement Date	String	-	No	YYYY- MM-DD	2014-02-01
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2AEENG000, 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	String	-	No	-	-



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Bid-Offer Pair -6					
Volume Accepted for Bid-Offer Pair -5	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2AAEPD000
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	-	Υ



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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	-	2AEENG000, 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, 2AAEPD000
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	-	-
Volume Accepted for Bid-Offer Pair -6	String	-	No	-	-
Total	String	-	No	-	-
Active Flag	String	-	No	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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, 2AAEPD000



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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 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	-	2AEENG000, G, E.ON



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					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, 2AAEPD000
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, 2AAEPD000
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	-	-



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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	-	-
Active Flag	String	-	No	-	Υ

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	-	2AEENG000, 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, 2AAEPD000
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, 2AAEPD000
Cashflow for Bid-Offer Pair -3	String	-	No	-	-
Cashflow for Bid-Offer Pair -2	String	-	No	-	-



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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	-	-
Active Flag	String	-	No	-	Υ

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	-	2AEENG000, 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	YYYYMMDD	20140201
Settlement Period	Integer	-	No	-	9
Acceptance ID	String	-	No	-	2AEENG000, 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, 2AAEPD000
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	-	-



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	1				
Total	Strina	-	No	-	-
	5				

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	-	2AEENG000, 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, 2AAEPD000
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	-	-



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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	-	-

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	-	2AEENG000, 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	-	-



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Volume Accepted for Bid-Offer Pair -4	String	-	No	-	EAS-ASP01, AES New Energy Limited, G, 2AAEPD000
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	-	Υ

Indicative Period Offer Acceptance Volumes



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Logical Field Name	Field Type	Remarks	Mandatory	XML Format	Sample data
Record Type	String	-	No	-	Fixed string value "IPOAV"
BM Unit Id	String	-	No	-	2AEENG000, 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, 2AAEPD000
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	-	-
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	-	2AEENG000, 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, 2AAEPD000



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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	-	-

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	-	2AEENG000, 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	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, 2AAEPD000
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	-	-



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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	-	-

5.3.8 Derived System Wide Data

API service details for the flow is as follows

Service Name	derivedSystemWideDataService
Operation Name	derivedSystemWideDataImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/DERSYSDATA/<versionno>?APIKey=<apikey>&FromSettlementD ate=<fromsettlementdate>&ToSettlementDate=<tosettlementdate>&SettlementPeriod=<settlementperiod>&ServiceType=<xml csv="" xml=""></xml></settlementperiod></tosettlementdate></fromsettlementdate></apikey></versionno></port></host>
Output Format	XML/CSV
Description	Default Sorting: Settlement Date (Ascending) Settlement Period (Ascending) Input data flow: Derived
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



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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	Double	-	No	-	38.66000
(SBP in £/MWh)					
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



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Replacement	Double	-	No	-	294.983
Price Calculation					
Volume (RPRV in MWh)					
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 Adjustment Sell Volume	Double	-	No	-	294.983
Total System Tagged Adjustment Buy Volume	Double	-	No	-	294.983



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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 "SSB"
Settlement Date	Date	-	No	YYYYMMDD	20140201
Settlement Period	Integer	-	No	1 to 50 or *	1
System Sell Price	Double	-	No	-	31.60000
(SSP in £/MWh)					
System Buy Price	Double	-	No	-	38.66000
(SBP in £/MWh)					
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
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



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



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5.3.9 Detailed System Prices

API service details for the flow is as follows

Service Name	detailedSystemPricesService
Operation Name	detailedSystemPricesImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/DETSYSPRICES/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&SettlementPeriod=<settlementperiod>&ServiceType=<xml csv="" xml=""></xml></settlementperiod></settlementdate></apikey></versionno></port></host>
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	<u>2014-02-01</u>
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 Pr	ice Calculation Sum	mary	
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



Volume	Double	-	No	-	39.097
Adjuster	Double	-	No	-	0.00
Value	Double	-	No	-	39.78979
Туре	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
Туре	String	-	No	-	SBP
Price Derivation Code	String	-	No	-	В
		Indicative S	ystem Price Offer St	ack 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	-	Т
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	Double	-	No	-	0.00000



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Price	1		1		
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
I LIVI)			 Totals		
TOTAL of TLM	Double	_	No	-	39.097
Adjusted Volume	Double		110		33.037
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66
		Indicative	 System Price Bid Sta	ock Data	
D T	Chaire	1	<u>-</u>		First China NDID/
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



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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	

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
	1	System	Price Calculation S	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
Туре	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
Туре	String	-	No	-	SBP
Price Derivation Code	String	-	No	-	В
		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



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Bid Offer Pair ID	String	T -	No	T -	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	-	0.0000000
TLM Adjusted Volume (QAPO * TLM)	Double	-	No	-	0.000
TLM Adjusted Cost (QAPO * PO * TLM)	Double	-	No	-	0.00
		-	Totals	<u> </u>	
TOTAL of TLM Adjusted Volume	Double	-	No	-	39.097
TOTAL of TLM Adjusted Cost	Double	-	No	-	1555.66
, ajuotou ooo	l	Indicative S	ystem Price Bid Sta	ck 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



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The state of the s	1			1			
Bid Price (Stack	Double	-	No	-	30.01000		
Item Original Price)							
Reserve Scarcity	Double	-	No	-	120.25		
Price							
Bid Volume (Stack	Double	-	No	-	-4.083		
Item Original							
Volume)							
DMAT Adjusted	Double	-	No	-	-4.083		
Volume							
Arbitrage Adjusted	Double	-	No	-	-4.083		
Volume							
NIV Adjusted	Double	-	No	-	0.000		
Volume							
PAR Adjusted	Double	-	No	-	0.000		
Volume							
(Stack Item) Final	Double	-	No	-	0.00000		
Price							
Transmission Loss	Double	-	No	-	0.0000000		
Multiplier (TLM)							
TLM Adjusted	Double	-	No	-	0.000		
Volume (QAPB *							
TLM)							
TLM Adjusted Cost	Double	-	No	-	0.00		
(QAPB * PB * TLM)							
, ,	Totals						
TOTAL of TLM	Double		No	_	39.097		
	Double	_	INO	1 -	39.097		
Adjusted Volume	Daubla		No		1555.66		
TOTAL of TLM	Double	-	No	-	1555.66		
Adjusted Cost							



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5.3.10 Market Depth Data

API service details for the flow is as follows

Service Name	marketDepthDataService
Operation Name	marketDepthDataImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/MKTDEPTHDATA/<versionno>?APIKey=<apikey>&SettlementDate=<settlementdate>&ServiceType=<xml csv="" xml=""></xml></settlementdate></apikey></versionno></port></host>
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	<u>2014-02-01</u>
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
Total Accepted	Double	-	No	-	1079.542



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Offer Volume					
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	-	Υ

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

5.3.11 Latest Acceptances

API service details for the flow is as follows

Service Name	latestAcceptancesService
--------------	--------------------------



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Operation Name	latestAcceptancesImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/LATESTACCEPTS/<versionno>?APIKey=<apikey>&ServiceType=<xml cs<br="" xml="">v/CSV></xml></apikey></versionno></port></host>
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:

neader 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	-	Υ

CSV Download service

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



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BM Unit Id	String	-	No	-	T_STAY-2
Acceptance Number	Integer	-	No	-	2558965231
Acceptance Time	Date	-	No	YYYYMMDDHHMM SS	20150126004700
From Time	Date	-	No	YYYYMMDDHHMM SS	20150126004700



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5.3.12 Historic Acceptances

API service details for the flow is as follows

Service Name	historicAcceptancesService
Operation Name	historicAcceptancesImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/HISTACCEPTS/<versionno>?APIKey=<apikey>&SettlementDate=<settlement date="">&SettlementPeriod=<settlementperiod>&ServiceType=<xml csv="" xml=""></xml></settlementperiod></settlement></apikey></versionno></port></host>
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

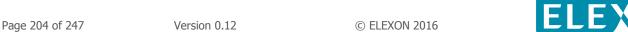
API Webservice - Response - Historic Acceptances

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





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

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	YYYYMMDDHHMM SS	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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5.3.13 System Messages

API service details for the flow is as follows

Service Name	systemMessagesService
Operation Name	systemMessagesImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/SYSMSG/<versionno>?APIKey=<apikey>& ServiceType=<xml csv="" xml=""></xml></apikey></versionno></port></host>
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	-	Υ

CSV Download service

Logical Field Name	Field Type	Remarks	Mandatory	CSV Format	Sample data
Record Type	String	-	No	-	Fixed string value "SYSMSG""
Message Date Time	Date	-	No	YYYYMMDDHHMM SS	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.

5.3.14 BM Unit Search

API service details for the flow is as follows

_	1
Service Name	bmUnitSearchService
Operation Name	bmUnitSearchImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/BMUNITSEARCH/<versionno>?APIKey=<apikey>&BmUnitId=<bmunitid>&BmUnitType=<bmunittype>&LeadPartyName=<leadpartyname>&NgcBmUnitName=<ngcbmunitname>&SemunitName>&Se</ngcbmunitname></leadpartyname></bmunittype></bmunitid></apikey></versionno></port></host>
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	-	2AEENG000, 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, 2AAEPD000
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	-	2AEENG000, 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	-	Υ

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	-	2AEENG000, 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

5.3.15 System Warning (Today/Tomorrow)



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API service details for the flow is as follows

Service Name	systemWarningTodayTomorrowService
Operation Name	systemWarningTodayTomorrowImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/SYSWARNTDYTOM<versionno>?APIKey=<apikey&servicetype=<xml cs<br="" xml="">v/CSV></apikey&servicetype=<xml></versionno></port></host>
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	-	Υ
	•	System w	varnings in force TOM	ORROW	•
Record Type	String	-	No	-	Fixed string value "SYSWARNTOM"



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Today	Date	-	No	YYYY-MM-DD	2008-07-02
Warning in Force	String	-	No	-	TDY
Times applicable	String	-	No	-	NONE
Active Flag	String	-	No	-	Υ

CSV Download service

Logical Field	Field Type	Remarks	Mandatory	CSV Format	Sample data
Name					
		Syste	m warnings in force T	ODAY	
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 TO	IORROW	1
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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5.3.16 System Warning (Historic)

API service details for the flow is as follows

Service Name	systemWarningHistoricService
Operation Name	systemWarningHistoricImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/HISTSYSWARN/<versionno>?APIKey=<apikey&servicetype=<xml csv="" xml=""></apikey&servicetype=<xml></versionno></port></host>
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:

Headel Recold.	
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	-	-



Active Flag	String	-	No	-	Υ

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	-	Υ



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5.3.17 Loss of Load Probability

API service details for the flow is as follows

Service Name	lossOfLoadProbabilityService
Operation Name	lossOfLoadProbabilityImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/LOLPDRM/<versionno>?APIKey=<apikey>&FromSettlementDate=<fromsettlementdate>&ToSettlementDate=<tosettlementdate>&ServiceType=<xml csv="" xml=""></xml></tosettlementdate></fromsettlementdate></apikey></versionno></port></host>
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



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	-	Υ

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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5.3.18 Demand Control Instructions

API service details for the flow is as follows

Service Name	demandControlInstructionService
Operation Name	demandControlInstructionImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/DEMCI/<versionno>?APIKey=<apikey>&FromSettlementDate=<fromsettlementdate>&ToSettlementDate=<tosettlementdate>&ServiceType=<xml csv="" xml=""></xml></tosettlementdate></fromsettlementdate></apikey></versionno></port></host>
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



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	-	Υ

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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5.3.19 STOR Availability Window

API service details for the flow is as follows

Service Name	storAvailabilityWindowService
Operation Name	storAvailabilityWindowImpl
Method	GET
Input URL	https:// <host>:<port>/BMRS/STORAW/<versionno>?APIKey=<apikey>&FromSettlementDate=<settlement date="">&ServiceType=<xml csv="" xml=""></xml></settlement></apikey></versionno></port></host>
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	1	No	YYYY-MM-DD	2014-12-31
Service Type	String	1	No	-	Xml/XML/csv/CSV

API Webservice - Response - STOR Availability Window

Header Record:

110000111	
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	НН:ММ	10:00
Weekday End Time	Date	-	No	HH:MM	10:00
Non-weekday Start Time	Date	-	No	НН:ММ	10:00
Non-weekday End Time	Date	-	No	НН:ММ	10:00
Active Flag	String	-	No	-	Υ

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	ННММ	10:00
Weekday End Time	Date	-	No	HHMM	10:00
Non-weekday Start Time	Date	-	No	ННММ	10:00
Non-weekday End Time	Date	-	No	ННММ	10:00



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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 document will describe how participant's can connect to this service and will describe what information is available from the service.

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.
АМQР	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, multivendor ecosystem, AMQP seeks to create opportunities for transforming the way business is done in the Cloud and over the Internet.

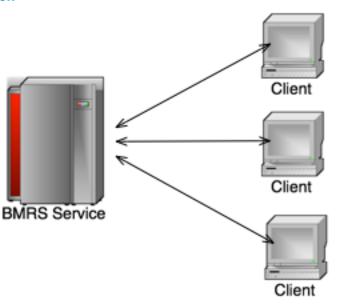
8 Topology

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.



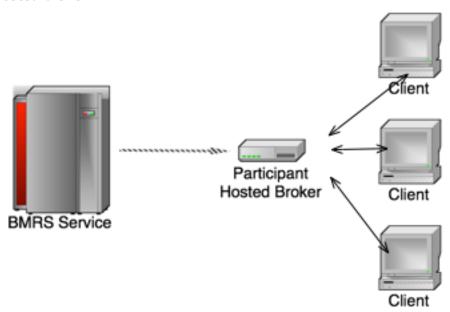
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8.1 Client direct connection



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.

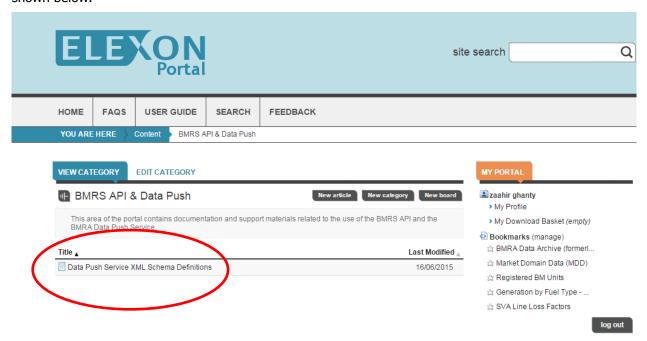
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The participant's clients would then connect over the participant's local LAN to the participant's broker to receive the messages. This approach provides the participant with the quickest approach for messages to be delivered to multiple clients.

8.3 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.



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

8.4 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</host>
OpenWire over HTTPS	https:// <host>:61617</host>
Stomp	stomp+ssl:// <host>:61613</host>
AMQP	amqp+ssl:// <host>:5672</host>



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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.

Please note: the data set from Phase 1 (Transparency and REMIT) from table 4.2.1 will also be available via the Data Push Service from July 2015.

Interface ID	Data flow type	Data Items	Date set IDD ref	Phase & Delivery Date
BMRA-I004	Balancing Mechanism Data	Bid-Offer Acceptance Level Flagged Data	BOALF	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Bid-Offer Data	BOD	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Maximum Delivery Period	MDP	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Maximum Delivery Volume	MDV	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Maximum Export Limit	MEL, MELS	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Maximum Import Limit	MIL, MILS	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Minimum Non-Zero Time	MNZT	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Minimum Zero Time	MZT	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Notice to Deviate from Zero	NDZ	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Notice to Deliver Bids	NTB	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Notice to Deliver Offers	NTO	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Point FPN Data	PN, FPN	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Applicable Balancing Services Volume Data	QAS	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Point Quiescent FPN Data	QPN	Phase 2 (July 2015)
BMRA-I004	Balancing Mechanism Data	Run Down Rates Export	RDRE	Phase 3 (October 2016)



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BMRA-I004	Balancing Mechanism Data	Run Down Rates Import	RDRI	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Run Up Rates Export	RURE	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Run Up Rates Import	RURI	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Stable Export Limit	SEL	Phase 3 (October 2016)
BMRA-I004	Balancing Mechanism Data	Stable Import Limit	SIL	Phase 3 (October 2016)
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	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Output Usable by Fuel Type, 2-14 Day	FOU2T14D	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Output Usable by Fuel Type, 2-52 Week	FOU2T52W	Phase 2 (July 2015)
BMRA-I005	System Related Data	Realtime Transmission System Frequency Data	FREQ	Phase 2 (July 2015)
BMRA-I005	System Related Data	Half Hourly Generation By Fuel Type	FUELHH	Phase 2 (July 2015)
BMRA-I005	System Related Data	Instantaneous Generation By Fuel Type	FUELINST	Phase 2 (July 2015)
BMRA-I005	System Related Data	Indicated Imbalance	IMBALNGC	Phase 2 (July 2015)
BMRA-I005	System Related Data	Sum of PN Demand (MW), (Indicated Demand)	INDDEM	Phase 2 (July 2015)
BMRA-I005	System Related Data	Sum of PN Generation (MW), (Indicated Generation)	INDGEN	Phase 2 (July 2015)
BMRA-I005	System Related Data	Initial National Demand Out-Turn	INDO	Phase 2 (July 2015)
BMRA-I005	System Related Data	Outturn Volume (MWh), Normal Volume (MWh), High Volume (MWh), Low Volume (MWh)	INDOD	Phase 2 (July 2015)
BMRA-I005	System Related Data	Initial Transmission System Demand Out-Turn	ITSDO	Phase 2 (July 2015)



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BMRA-I005	System Related Data	Indicated Margin	MELNGC	Phase 2 (July 2015)
BMRA-I005	System Related Data	Market Index Price, Market Index Volume	MID	Phase 2 (July 2015)
BMRA-I005	System Related Data	Missing Market Index Data Messages	Missing MID	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Demand Forecast	NDF	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Demand Forecast Day, 2-14 Day	NDFD	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Demand Forecast Week, 2-52 Week	NDFW	Phase 2 (July 2015)
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	Phase 2 (July 2015)
BMRA-I005	System Related Data	Non-BM STOR Out-Turn	NONBM	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Surplus Forecast, 2-14 Day	OCNMFD	Phase 2 (July 2015)
BMRA-I005	System Related Data	Generating Plant Demand Margin, 2-14 Days	OCNMFD2	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Surplus Forecast, 2-52 Week	OCNMFW	Phase 2 (July 2015)
BMRA-I005	System Related Data	Generating Plant Demand Margin, 2-52 Weeks	OCNMFW2	Phase 2 (July 2015)
BMRA-I005	System Related Data	SO-SO Prices	SO-SO	Phase 2 (July 2015)
BMRA-I005	System Related Data	System Message	SYSMSG	Phase 3 (October 2016)
BMRA-I005	System Related Data	System Zone Map	System Zone Map	Phase 3 (October 2016)
BMRA-I005	System Related Data	System Warnings	SYSWARN	Phase 2 (July 2015)



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BMRA-I005	System Related Data	Outturn Temperature, Low Reference Temperature, Normal Reference Temperature, High Reference Temperature (all degrees Celsius)	TEMP, REFTEMP	Phase 2 (July 2015)
BMRA-I005	System Related Data	Transmission System Demand Forecast	TSDF	Phase 2 (July 2015)
BMRA-I005	System Related Data	Transmission System Demand Forecast Day, 2-14 Day	TSDFD	Phase 2 (July 2015)
BMRA-I005	System Related Data	Transmission System Demand Forecast Week, 2-52 Week	TSDFW	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Output Usable by Fuel Type and BM Unit, 2-14 Day	UOU2T14D	Phase 2 (July 2015)
BMRA-I005	System Related Data	National Output Usable by Fuel Type and BM Unit, 2-52 Week	UOU2T52W	Phase 2 (July 2015)
BMRA-I005	System Related Data	Generation Forecast (MW), Total Registered Capacity (MW)	WINDFOR	Phase 2 (July 2015)
BMRA-I006	Derived Data	Period Bid and Offer Acceptance Volumes (QAB, QAO and CADL Flag)	BOAV	Phase 3 (October 2016)
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	Phase 3 (October 2016)
BMRA-I006	Derived Data	Estimated Bid Offer Cash flows	EBOCF	Phase 3 (October 2016)
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	Phase 3 (October 2016)



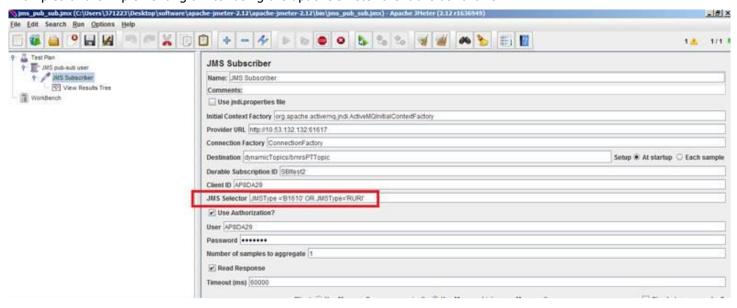
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BMRA-I006	Derived Data	Estimated Period Balancing Mechanism Bid and Offer Cashflows (CB and CO)	PTAV	Phase 3 (October 2016)
BMRA-I006	Derived Data	Disaggregated Estimated Buy and Sell Price	DISEBSP	Phase 3 (October 2016)
BMRA-I006	Derived Data	Total Bid Volume and Total Offer Volume	TBOD	Phase 3 (October 2016)
BMRA-I019	Credit Default Notices	Credit Default Notices	CDN	Phase 2 (July 2015)

8.6 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:



Message Types (JMSType)					
Phase1	Phase2	Phase3			
B0610	FOU2T14D	MNZT			
B0620	FOU2T52W	MZT			



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B0630	INDOD	NDZ	
B0640	ITSDO	NTB	
B0650	INDO	NTO	
B0810	FUELHH	SEL	
B1410	FUELINST	SIL	
B1420	FREQ	RDRE	
B1430	UOU2T14D	RDRI	
B1440	UOU2T52W	RURE	
B1610	NONBM	RURI	
B1620	WINDFOR	MELS	
B1630	DISBSAD	MILS	
B1720	QAS	BOALF	
B1730	IMBALNGC	BOAV	
B1740	NETBSAD	EBOCF	
B1750	SYS_WARN	TBOD	
B1760	soso	SYSMSG	
B1770	BOD	DISPTAV	
B1780	OCNMFW2	ISPSTACK	
B1790	OCNMFW	DISEBSP	
B1810	QPN	LOLPDM	
B1820	PN	MID	
B1830	TSDFD		
B0910	MDV		



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B1320	MDP	
B1330	NDFW	
B0710	TSDFW	
B0720	OCNMFD2	
B1010	OCNMFD	
B1020	TSDF	
B1030	NDFD	
B1510	CDN	
B1520	INDDEM	
B1530	INDGEN	
B1540	MELNGC	
B1930	NDF	
B2010	TEMP	

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.



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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.

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 8.4
- 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



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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 iava.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 {
```

```
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");
            HttpURLConnection conn = (HttpURLConnection) 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 .... \u214n");
            while ((output = br.readLine()) != null) {
                System. out. println(output);
            conn. disconnect();
```



```
} 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 pformat
def post_elexon(url):
    http_obj = httplib2.Http()
    resp, content = http_obj.request(
        uri=url.
        method='GET',
       headers={'Content-Type': 'application/xml; charset=UTF-8'},
    print '===Response==='
    print pformat(resp)
    print '===Content==='
    print pformat(content)
    print '===Finished==='
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',
```



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



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 {
```



```
// --- 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
```



```
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
```



```
* @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 JMSException
public void create (String url, String apikey, String clientId, String topicName, String subId) throws JMSException {
   // 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
```



```
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 (JMSException exp) {
        throw exp;
public void closeConnection() throws JMSException {
```



```
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());
```



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

11.2 Java – Looping example

```
import javax. jms. Connection;
import javax. jms. ConnectionFactory;
import javax. jms. JMSException;
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;
/**
```



```
* @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;
```



```
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) {</pre>
       LOGGER. debug ("Attempting connection. Count = " + count);
        try {
            consumer.run();
        } catch (NamingException | JMSException ex) {
            LOGGER.error(ex.getLocalizedMessage());
            count++;
        } finally {
            LOGGER. debug ("Shutting down");
```



```
Thread. sleep (1000);
public void run() throws NamingException, JMSException {
    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);
```



```
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();
```



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

Date	Author	Reason
12 November 2014	Zaahir Ghanty	First Draft for peer review
12 December 2014	Stephen J. Thompson	Brought into alignment with 0.6 of the API specification
12 December 2014	Zaahir Ghanty	Update following review
28 April 2015	Zaahir Ghanty/Stephen J. Thompson	Update to include REST API for Phase 2 & Data Push Service
18 May 2015	Zaahir Ghanty	Update following user feedback
14 July 2015	Stephen J. Thompson	Update of API request method from POST to GET
24 July 2015	Zaahir Ghanty/Stephen J. Thompson	Update of API URLs and Java examples for Data Push
31 August 2015	Stephen J. Thompson	Updated the RESTful examples to use the GET verb. Added a checklist for users
22 January 2016	Zaahir Ghanty	Updated to include REST API for Phase 3 and P305 Data
22 April 2016	Zaahir Ghanty	Updated following user feedback
		Added message types for Data Push Service
14 July 2016	Zaahir Ghanty	Housekeeping updates
17 October 2016	Zaahir Ghanty	Housekeeping updates & Python working example for Data Push
	12 November 2014 12 December 2014 12 December 2014 28 April 2015 18 May 2015 24 July 2015 31 August 2015 22 January 2016 22 April 2016	12 November 2014 Zaahir Ghanty 12 December 2014 Stephen J. Thompson 12 December 2014 Zaahir Ghanty 28 April 2015 Zaahir Ghanty/Stephen J. Thompson 18 May 2015 Zaahir Ghanty 14 July 2015 Stephen J. Thompson 24 July 2015 Zaahir Ghanty/Stephen J. Thompson 31 August 2015 Stephen J. Thompson 22 January 2016 Zaahir Ghanty 22 April 2016 Zaahir Ghanty 23 April 2016 Zaahir Ghanty 24 July 2016 Zaahir Ghanty