

Public

BMRS User Group

Meeting 1

9 April 2014
BMRS Project Team



Health & Safety

In case of an emergency

An alarm will sound to alert you. The alarm is tested for fifteen seconds every Wednesday at 9.20am

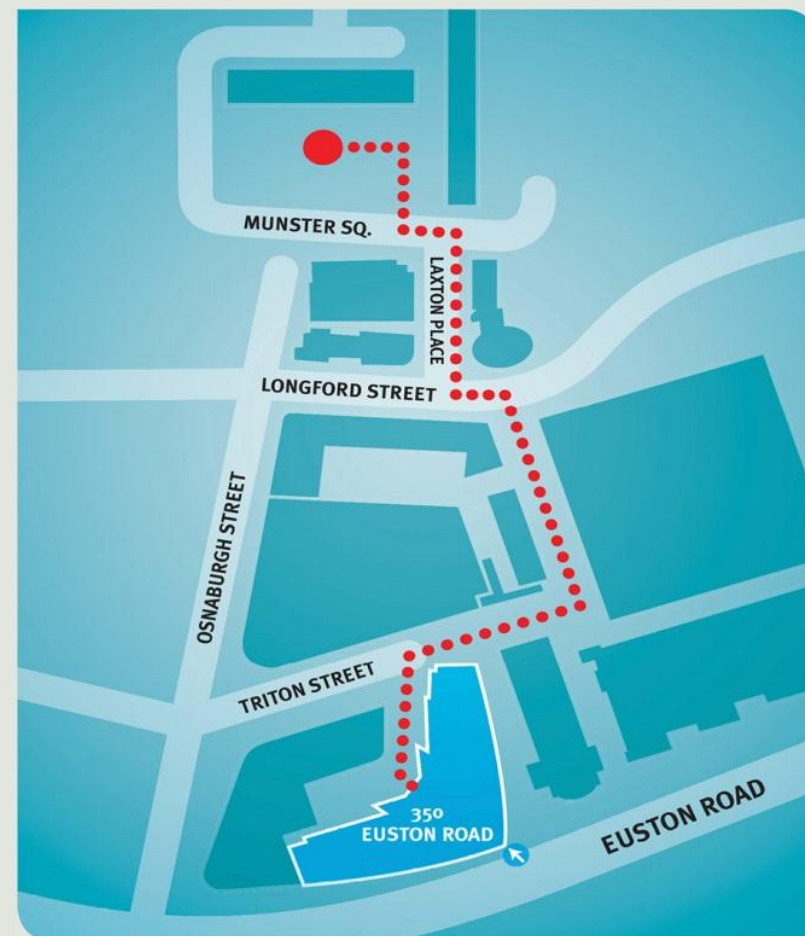
Evacuating 350 Euston Road

- If you discover a fire, operate one of the fire alarms next to the four emergency exits.
- Please do not tackle a fire yourself.
- If you hear the alarm, please leave the building immediately.
- Evacuate by the nearest signposted fire exit and walk to the assembly point.
- Please remain with a member of ELEXON staff and await further instructions from a Fire Warden.
- For visitors unable to use stairs, a Fire Warden will guide you to a refuge point and let the fire brigade know where you are.

When evacuating please remember

- Do not use the lifts.
- Do not re-enter the building until the all clear has been given by the Fire Warden or ground floor security.

Our team on reception is here to help you, if you have any questions, please do ask them.



Content

■	1.	Introductions and Overview	10:30
■	2.	API Requirements	10:45
■	3.	Break	11:20
■	4.	TIBCO Considerations	11:30
■	5.	Lunch	12:15
■	6.	Web UI Discussion	12:45
■	7.	Next Steps	13:45

Purpose of Working Group

- Validation of requirements for new functionality such as the user interface and Application Programming Interface (API)
- Review of New BMRS documentations such as Terms of use policy, API guidance in a timely manner
- Participation in testing (alpha testing) for new functionality
- Terms of Reference

The New BMRS

- The Balancing Mechanism Reporting Service (BMRS) is the primary channel for providing operational data relating to the GB Electricity Balancing and Settlement Arrangements
- P291 and P295 will bring additional data to BMRS
- BMRS has served the industry well but it is becoming increasingly challenging to support the growing data demands of its users and to accommodate new data items
- BSC Panel/ELEXON Board sanctioned redevelopment of the BMRS to achieve the following:
 - Improving the speed of access to BMRS data to all interactive participants by providing free alternative mechanisms such as web services/Application Programming Interface (API)
 - Improving the user experience of the BMRS as a whole (speed, navigation and data presentation with better integration of data)
 - Lowering cost of change and maintenance of the website
 - Maintaining TIBCO for high grade users

Implementation Timescales

Outline Phases in the proposed delivery model

Phase 1 - Establish the new platform and deliver Modifications P291 and P295. The functionality for P291 and P295 will include:

- New front end web server and user interface
- Data downloadable through new API (Application Programming Interface)
- TIBCO interface for existing TIBCO users

Phase 2 – Provide API for all Raw Data:

- Migrate the data loading components.
- Make all raw data being available via the API Interface
- Note derived data, e.g. imbalance prices will not be migrated until Phase 3

Phase 3 - Full functionality for all BMRS data and deliver Modification P297¹

- Migrate the BMRS calculations (such as imbalance price calculation)
- New front end web server and user interface for all BMRS published data
- P297 data available through all channels (including TIBCO)



API Requirements

API Requirements

■ Aims

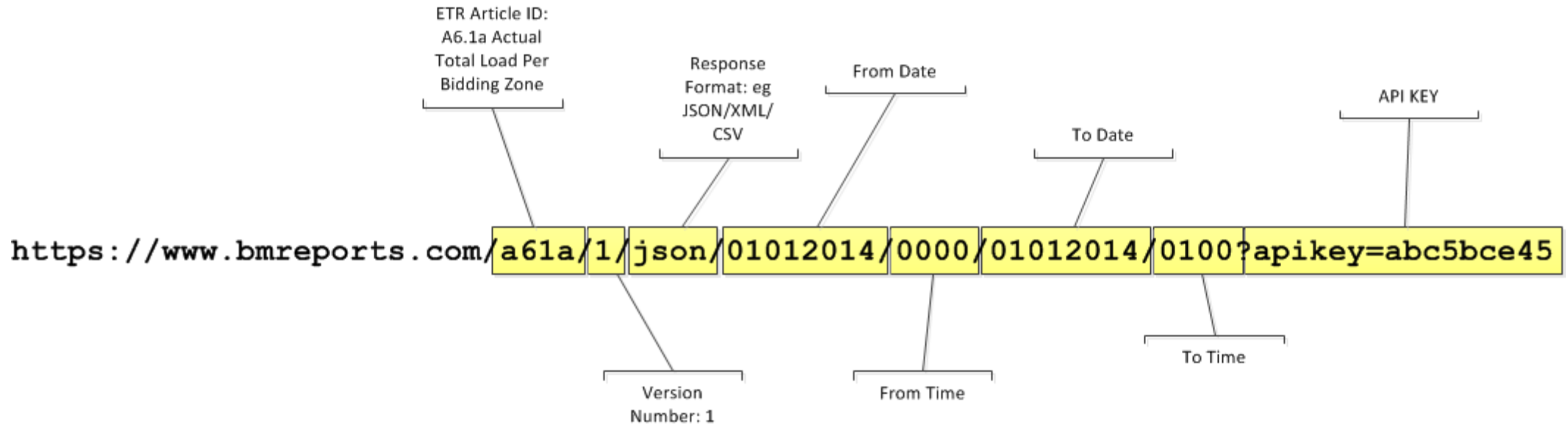
- Secure and performant industry facing webservice platform.
- Initially P291 and P295 data will be exposed.

■ Principles

- Expose a set of RESTful webservices
- Provides the BMRA ETR data as a service
- Requests for the data can be made based on a set of parameters
- Authentication will be provided by an API Key
- Transport will be over HTTPs
- Services will be versioned
- Required response formats eg JSON XML CSV will be included as a parameter.
- Standard HTTP response codes will be used.
- Will be read only and use HTTP GET in all instances.

API Requirements

Example URI could be as follows:



Example above would return:

1. A6.1a - Actual Total Load data
2. Version 1 of the API
3. JSON Format data
4. Data published between a given date range
5. Authenticated by a given API Key

API Requirements

■ Example Use Cases

1. Programmatically eg

```
public class JerseyClientGet {  
  
    public static void main(String[] args) {  
        try {  
  
            Client client = Client.create();  
  
            WebResource webResource = client  
                .resource("http://localhost:8080/RESTfulExample/rest/json/metallica/get");  
  
            ClientResponse response = webResource.accept("application/json")  
                .get(ClientResponse.class);  
  
            if (response.getStatus() != 200) {  
                throw new RuntimeException("Failed : HTTP error code : "  
                    + response.getStatus());  
            }  
  
            String output = response.getEntity(String.class);  
  
            System.out.println("Output from Server .... \n");  
            System.out.println(output);  
        }  
    }  
}
```

2. Spreadsheet



TIBCO Considerations

Tibco Considerations

■ Features:

- As part of Phase 1, new P295 and P291 data will be published to TIBCO rendezvous. Features include:
 - Will be published with an XML payload.
 - Will have a distinct TIBCO subject name: *TRANSPARENCY.BMRA.<ARTICLE_ID>*
- There will be no impact to existing TIBCO messaging data.
- TIBCO republishing capabilities for XML payload will be provided via the RESTful APIs.

■ Impacts on Industry Participants

- Participant systems will need to be updated to include the capability of consuming the new XML data.




WEB UI Discussion

Web UI Discussion

- Context: As Part of Phase 1
 - A collection of web new web pages will be rolled out on the new BMRS platform
 - Pages will be for both
 - P291 REMIT
 - P295 ETR.
 - Initially they will be accessible from the existing BMRS.
- Initial UI requirements and design work for P291 REMIT is underway.
- This section will look at some of the initial thinking on the UI with a view to obtaining industry participant feedback.

Web UI Discussion – P291 Initial Message List



[HOME](#) [MESSAGES](#)

Home » Messages

Date :
☐ Ongoing event ☒ Date of publication Next 7 Days ▾ 2014-03-20 2014-04-01 FILTER MESSAGES [More Filters](#)

[XML](#) [CSV](#)

MESSAGE TYPE ▾	PUBLISHED	START TIME	END TIME	ASSOCIATED ASSET	ASSET TYPE	AFFECTED AREAS ▾	FUEL TYPE ▾	EVENT MESSAGE
OUTAGE	24.03.2014	31.03.2014	14.05.2014	ABD123	OSKARSHAMN 1, ALL UNITS	London	Nuclear	Failure Plant Outage due to poor weather
OUTAGE	24.03.2014	31.03.2014	14.05.2014	ABD123	OSKARSHAMN 1, ALL UNITS	London	Nuclear	Failure Plant Outage due to poor weather
OUTAGE	24.03.2014	31.03.2014	14.05.2014	ABD123	OSKARSHAMN 1, ALL UNITS	London	Nuclear	Failure Plant Outage due to poor weather
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Web UI Discussion – P291 Initial Message List.. cont

ELEXON

HOMEMESSAGES

Home » Messages

DATE:
☐ Ongoing event ☒ Date of publication Next 7 Days ▾ 2014-03-20 2014-04-01

MESSAGE TYPE :
Check All | Uncheck All
☐ General
☒ Production
☐ Consumption
☐ Transmission

MESSAGE CATEGORY:
Check All | Uncheck All
☒ Outage or limitation
☐ Expansion or dismantling
☐ Market information

AREA:
Check All | Uncheck All
☐ BY ☐ EE ☐ NO1 ☐ RU
☐ DE-50Hertz ☐ FI ☐ NO2 ☐ SE
☒ DE-TenneT ☒ KAL ☐ NO3 ☒ SE2
☐ DK1 ☐ LT ☒ NO4 ☐ SE3
☐ DK1A ☐ LV ☐ NO5 ☐ SE4
☐ DK2 ☒ NL ☐ PL ☐ Empty

FUEL:
Check All | Uncheck All
☐ Bio ☐ Natural gas ☐ Other
☒ Coal ☒ Nuclear ☐ Peat
☐ Hydro ☐ Oil ☐ Wind
☐ Light oil ☒ Oil shale ☐ Empty

FILTER MESSAGES [Hide Filters](#)

[XML](#) [CSV](#)

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Web UI Discussion – P291 Message Detail

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HOMEMESSAGES

Home » Messages

OUTAGE OR LIMITATION : MAINTENANCE

Station Name

Decision time: 03.04.2014 10:52Event start: 31.03.2014 04:00
Published: 03.04.2014 11:00:07Event stop: 06.04.2014 12:00

REMARKS
UMM updated with new event stop time.

AFFECTED UNIT	FUEL	INSTALLED	AVAILABLE	FROM	TO
G31	Nuclear	1170 MW0	MW	31.03.2014 04:00	06.04.2014 12:00

ADDITIONAL INFORMATION

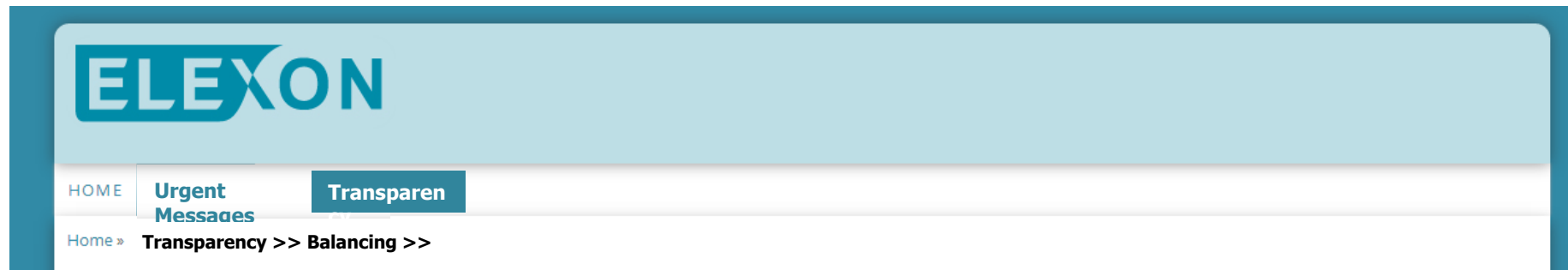
Company	Company Name
Related messages	03.04.2014 11:00 (currently viewing)
	28.03.2014 14:23
	28.03.2014 09:46
	27.03.2014 14:28
	24.03.2014 15:02

Back

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Web UI Discussion – P295 ETR



Receipt
Date



Receipt
Time



Receipt Date	Receipt Time	Document ID	Version	View	Download		
14-Mar-14	12:30	NGET-EMFIP-ContractedReserve-121	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	12:00	NGET-EMFIP-ContractedReserve-120	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	11:30	NGET-EMFIP-ContractedReserve-119	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	11:00	NGET-EMFIP-ContractedReserve-118	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	10:30	NGET-EMFIP-ContractedReserve-117	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	10:00	NGET-EMFIP-ContractedReserve-116	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	9:30	NGET-EMFIP-ContractedReserve-115	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	9:00	NGET-EMFIP-ContractedReserve-114	1	Details	[XML]	[CSV]	[JSON]
14-Mar-14	8:30	NGET-EMFIP-ContractedReserve-113	2	Details	[XML]	[CSV]	[JSON]
14-Mar-14	8:30	NGET-EMFIP-ContractedReserve-113	1	Details	[XML]	[CSV]	[JSON]

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