

PUBLIC

# ELEXON Industry Test Strategy

Wider Access and TERRE (P344)



Isobel Squire  
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Industry Test Lead  
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# INDUSTRY TEST STRATEGY – WIDER ACCESS AND TERRE (P344)

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## 1. INTRODUCTION

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### 1.1 BSC Release for Wider Access and TERRE

ELEXON is planning a standalone BSC Release (currently expected to be in December 2019) to complete the implementation of market arrangements for Wider Market Access and TERRE. As specified in [BSC Section H](#), section 2.5, the exact date is subject to the receipt of a Final Implementation Date Notice from National Grid ESO (NGESO).

NGESO has submitted a derogation request with Ofgem, proposing a delay to GB joining the TERRE market. NGESO has expressed the view that if the derogation is granted, it would still wish to proceed with implementing Wider Market Access by the end of 2019.

ELEXON is working closely with NGESO to understand the detailed implications of this approach. A discussion of the practicalities of implementing Wider Access and TERRE on different timescales is provided in paper 292/05 'Impact of Potential TERRE Derogation on implementation of Modification P344', presented to the [BSC Panel on 11 July](#).

### 1.2 Purpose of this document

The purpose of this document is to set out ELEXON's strategy for testing Wider Access and TERRE arrangements with industry participants. For the purposes of this document the term 'industry participant' includes ELEXON, NGESO, and any of the following who wish to participate in testing:

- Existing BSC Parties
- New or prospective Virtual Lead Parties (VLPs)
- Half-Hourly Data Aggregators (HHDAs)
- Third party service providers who maintain software that is used by Parties to manage their interfaces with ELEXON.

### 1.3 Contacts

For any queries about industry testing, please email [TERRE.testing@elexon.co.uk](mailto:TERRE.testing@elexon.co.uk).

## 2. SUMMARY OF THE BSC RELEASE

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### 2.1 Functional scope of the release

The standalone BSC Release completes the implementation of modification P344 'Project TERRE implementation into GB market arrangements', some elements of which were implemented in the February 2019 BSC Release<sup>1</sup>. It will also implement the related change proposal CP1517 'Changes to BSC configurable items for the TERRE Final Implementation Date'.

There is also a BSC Release scheduled for 18 December 2019 for Modification P384 'The publication of European Electricity Balancing Guideline (EB GL) balancing data by BMRS'.

The scope of testing includes functionality affected by both of these BSC modifications and the change proposal, as follows:

- Publication of RR bids and offers and RR auction results on BMRS

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<sup>1</sup> There were also two modifications to the legal text for TERRE: P380 (implemented in June 2019) and P386 (to be implemented in November 2019).

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- New interfaces with participants associated with the provision of MSID data, the calculation of SBMU delivered volumes and the resulting adjustments to Supplier volumes
- Inclusion of new data and calculation results in the settlement report SAA-I014
- Changes to the content of transparency data that is issued to EMFIP by BMRS
- Presentation on the BMRS website of new/amended market data introduced by P344 and P384
- New API, TIBCO and data push messages in BMRS to allow users to receive the new data

## 2.2 Relevant documentation

The following BSC documentation may be helpful to participants in designing their own systems and interfaces. See section 6.2 for full references.

- P344 Business Requirements
- Summary of P344 impact on BSC configurable items
- BSCP503 Half Hourly Data Aggregation for SVA Metering Systems
- BSCP602 SVA Metering System Balancing Services Register
- NETA Interface Definition and Design Part 1 (document and spreadsheet)
- NETA Interface Definition and Design Part 2 (relevant to NGENSO and other users of SAA-I014 subflow 2)
- SVA Data Catalogue Part 1: Data Interfaces
- SVA Data Catalogue Part 2: Data Items
- BMRS API Data Push User Guide

HHDA's will be requested to provide metered volumes for MSIDs registered to SBMUs, and the associated data flows are defined in the Data Transfer Catalogue maintained by the Meter Registration Agreement Service Company. The catalogue is published online at <https://dtc.mrasco.com>.

## 3. SCOPE OF ELEXON'S INDUSTRY TESTING

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### 3.1 Participation in industry testing

Industry testing is designed to assist participants with testing their own systems and interfaces, but for any individual Party (or prospective new Party) it is not compulsory.

New market entrants should note that ELEXON's industry testing phases are separate from the compulsory BSC CVA and SVA Qualification checks that they must go through before they can complete the registration of their primary or secondary BM Units.

In summary the following principles apply to participation in industry testing:

- NGENSO and ELEXON **will test their key interfaces** with each other and with European platforms.
- Existing Parties (or their service providers) are **welcome to participate** in the industry tests that are relevant to them, **but it is not compulsory to do so**.
- VLPs are **welcome to participate** in the industry tests that are relevant to them, **but it is not compulsory to do so**.
- Prospective VLPs **do not need to complete BSC Qualification and Registration before industry testing**; the processes can run in parallel.

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- **VLPs do not need to involve their customers** in industry testing of ELEXON's settlement processes. (Note that NGESO may require customer involvement for their testing of bid/offer submissions and dispatch instructions).
- **ELEXON will seek to involve a number of participants** in industry testing to ensure that any issues with the new or amended interfaces are identified and resolved.

## 3.2 Objectives

The objectives of ELEXON's industry testing are to:

- Validate new and amended interfaces between NGESO and ELEXON
- Validate new and amended interfaces between ELEXON (BMRS) and ENTSO-E's EMFIP platform
- Enable market participants to validate changes to their interfaces with ELEXON
- Enable VLPs to validate their role in new processes for registering SBMUs and MSIDs, and settling SBMU balancing actions
- Support NGESO's end-to-end tests of GB participation in TERRE by operating the market reporting and settlement functions involved in the test scenarios

## 3.3 Phases of testing

ELEXON will carry out industry testing in three main phases, as follows:

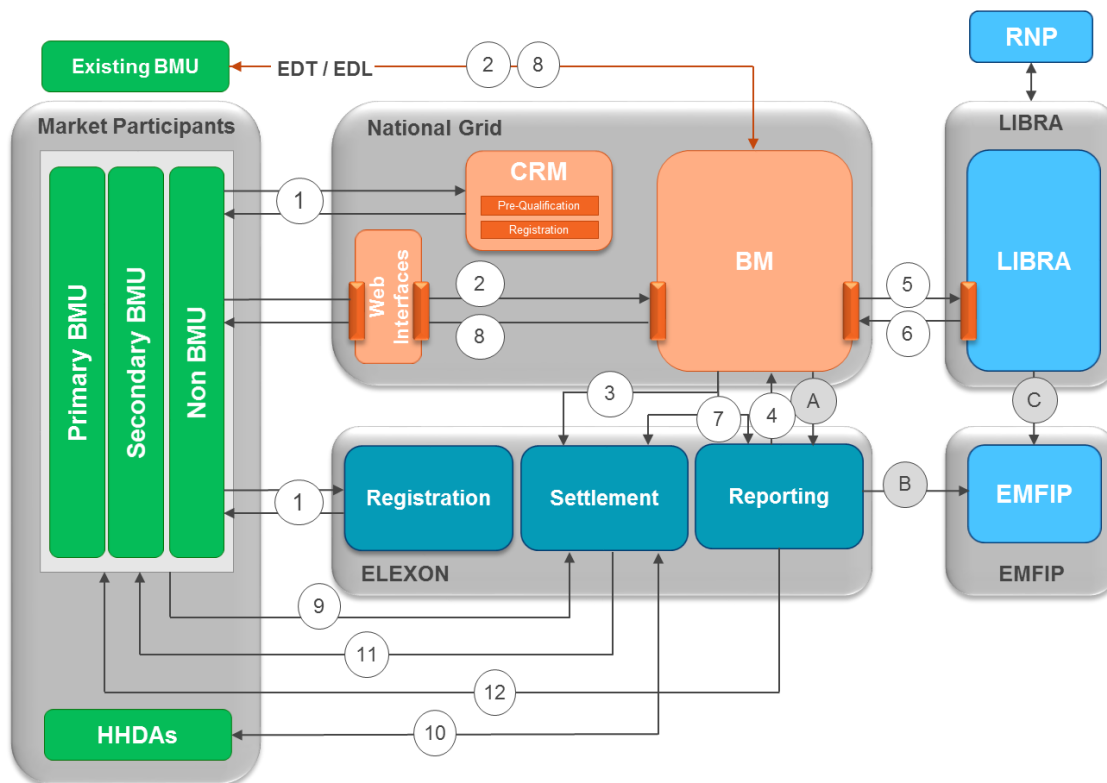
Interface testing	Manual exchange of sample files between Industry Participants and ELEXON to prove the interface file formats. Enables participants to confirm their understanding of the expected format, and allows recipients of files to test their data load routines.
Integration testing	Integrated testing of key parts of the balancing and settlement process, where files are exchanged in a realistic manner.
End to end testing	Full end to end test of the balancing and settlement process with TERRE trading, involving NGESO, ELEXON, the LIBRA platform, and a number of GB participants.

## 3.4 Functional areas to be included

The end to end testing phase (with TERRE parallel run) will need to cover all the areas illustrated in Figure 1.

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- |                         |                                    |                                     |   |                                   |
|-------------------------|------------------------------------|-------------------------------------|---|-----------------------------------|
| 1. Registration         | 4. GBP > EUR Rate                  | 7. Auction Results > ELEXON         | 10. HH Metered Volumes > ELEXON         | A,B,C: European Transparency data |
| 2. Bids > National Grid | 5. Bids > Libra                    | 8. Instructions > Mkt. Participants | 11. Metered Volumes > Mkt. Participants |                                   |
| 3. Bids > ELEXON        | 6. Auction Results > National Grid | 9. Delivered Volumes > ELEXON       | 12. Invoicing & Reporting               |                                   |



**Figure 1: End to end GB market testing for TERRE**

For interface testing and integration testing, ELEXON will focus on its own interfaces with participants, as listed in the following table. (Interface IDs refer to Figure 1).

ID	Summary	Description	Participants involved
3	Receive balancing market data from NGESO	BMRA receives bids, offers and acceptances (including SBMU actions) and additional data for RR auction results	NGESO
4	Publish daily exchange rate	BMRA API provides daily GBP-EUR exchange rate	NGESO
9	Receive delivered volumes from VLPs	SVAA receives delivered volumes from VLPs for each day, compares with MSID metered volumes and calculates Supplier adjustments	VLPs, Suppliers
10	Receive MSID metered volumes from HHDAs	SVAA notifies HHDAs that metered volumes are required, and HHDAs send them for each day	HHDAs
12	BM Reporting	BMRA publishes new data for RR trading via web, TIBCO, API and data push	All Parties

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ID	Summary	Description	Participants involved
12	Settlement reporting	ELEXON issues SAA-I014 reports, including SBMU actions and RR trades	All Parties
A, B	European transparency data	Amendments to flows in line with P384	NGESO, ENTSO-E (EMFIP)

The full list of the interfaces involved is included in the next two sub-sections.

### 3.5 Settlement interfaces included

The following table lists the incoming and outgoing interfaces (to/from ELEXON's settlement systems) that are in scope for industry testing. The table also highlights whether the flow is new or changed as a result of wider access or TERRE or both.

Direction	From	To	Data flow name	Flow description	Wider Access	TERRE
Incoming	NGESO	BMRA	BMRA-I002	BOALF - RR Activation flag added	-	Changed
Incoming	NGESO	BMRA	BMRA-I029	Transparency data	-	Changed
Incoming	NGESO	BMRA	BMRA-I036	<ul style="list-style-type: none"> <li>RR Bid Data</li> <li>GB Need Met</li> <li>RR Activation data</li> <li>RR Interconnector Schedule</li> <li>TERRE Clearing Price Data</li> </ul>	-	New
Outgoing	SVAA	HHDA	D0354	Metering System Reporting Notification	New	-
Incoming	HHDA	SVAA	D0355	Metering System Reporting Confirmation	New	-
Incoming	HHDA	SVAA	D0356	Metering System Reporting Rejection	New	-
Incoming	HHDA	SVAA	D0385	Metering System Half Hourly Metered Data	New	-
Incoming	VLP	SVAA	P0278	MSID Pair Allocation	New	-
Outgoing	SVAA	VLP	P0279	Confirmation of MSID Pair Allocation	New	-
Outgoing	SVAA	VLP	P0280	Rejection of MSID Pair Allocation	New	-
Outgoing	SVAA	VLP	P0281	Loss of MSID Pair Allocation	New	-
Incoming	VLP	SVAA	P0282	MSID Pair Delivered Volume Notification	New	-
Outgoing	SVAA	VLP	P0283	Rejection of MSID Pair Delivered Volume	New	-
Outgoing	SVAA	VLP	P0284	Confirmation of MSID Pair Delivered Volume	New	-
Outgoing	SVAA	VLP	P0285	MSID Pair Delivered Volume Exception Report	New	-

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Direction	From	To	Data flow name	Flow description	Wider Access	TERRE
N/A	VLP	VLP	P0286	Disputed MSID Pair Allocation	New	
Outgoing	SVAA	Supplier	P0287	Secondary half Hourly Delivered Volumes	New	
Outgoing	SVAA	VLP	P0288	Secondary Half Hourly Consumption Volumes	New	-
Outgoing	SAA	Party	SAA-I014 subflow 1	Settlement Report for a Party	Changed	Changed
Outgoing	SAA	NGESO	SAA-I014 subflow 2	Settlement Report for NGESO	Changed	Changed
Outgoing	SAA	VLP	SAA-I014 subflow 4	Settlement Report for a VLP	New	New

**Note:** Flows P0278-P0281 are already live; they were implemented in February 2019. Industry testing provides an opportunity to exercise them in conjunction with other flows relating to MSIDs: metered volumes and delivered volumes.

### 3.6 BMRS data flows included

The following table lists the changes to BMRS information that will be available. All of these relate to TERRE rather than Wider Access.

Data flow name	Flow description
API - DERBMDATA	The existing Derived BM Unit Data API will be enhanced to provide the RR Instruction Flag in the Bid Acceptance Volume and Offer Acceptance Volume
API - EURGBFXDATA	New flow to provide Exchange Rate
API - PhyBMDATA	Existing BOALF with RR Schedule and RR Flag
API - RR Activation	RR Activation data
API - RR Results	Interconnector Schedule
API - RR Results	GB Need Met
API - RRAggregatedInfo	New API for RR Aggregated Info
API - RRBidData	New for retrieval of RR Bid data
API - RRCashflow	New for the retrieval of Quarter Hour RR Cashflow and Period RR BM Unit Cashflow data
BMRA-I037	Publish Replacement Reserve Data
Data Push AD	TERRE Activation Data
Data Push BOALF	Bid Off Acceptance Level Flagged
Data Push GBNM	TERRE GB Need Met
Data Push IS	TERRE Interconnector Schedule
Data Push PRRC	Indicative Period RR Cashflows (ICRRij)
Data Push QRRC	Indicative Quarter Hour RR Cashflows (ICRRiJ)



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Data flow name	Flow description
Data Push RRBD	BSP TERRE Bid Data - message contains values for a single BM Unit, as identified in the message subscription - see BOD for equivalent usage
Data Push RRBOAV.n	Indicative Period RR Accepted Bid and Offer Volumes
Data Push RRPTAV.n	Indicative Period RR Total Accepted Bid and Offer Volumes
TIBCO AD	TERRE Activation Data
TIBCO BOALF	Bid Off Acceptance Level Flagged
TIBCO GBNM	TERRE GB Need Met
TIBCO IS	TERRE Interconnector Schedule
TIBCO PRRC	Indicative Period RR Cashflows (ICRRij)
TIBCO QRRC	Indicative Quarter Hour RR Cashflows (ICRRiJ)
TIBCO RRBD	BSP TERRE Bid Data - message contains values for a single BM Unit, as identified in the message subscription - see BOD for equivalent usage
TIBCO RRBOAV.n	Indicative Period RR Accepted Bid and Offer Volumes
TiBCO RRPTAV.n	Indicative Period RR Total Accepted Bid and Offer Volumes
Transparency data	Data transferred to ENTSO-E's EMFIP platform in line with European Transparency Regulations

## 3.7 Out of scope

The following areas are out of scope for industry testing:

- Provision of GBP-EUR exchange rate to ELEXON by new foreign exchange service provider
- Changes to FAA systems to include RR cashflows
- Changes to ECVAA system to include SBMU trading and RR cashflows in the calculation of energy indebtedness

## 4. TESTING APPROACH FOR EACH PHASE

### 4.1 Interface testing

#### 4.1.1 Testing arrangements for interface testing

Interface testing provides an opportunity to confirm that ELEXON and participants have the same interpretation of the interface definitions. This will be done by sharing sample files for the most significant data flows, to give early visibility of the expected format and content. Samples will be generated from various stages of ELEXON's internal testing.

Files will *not* be sent via the normal settlement network channels; they will be shared with participants via email or a web page.

Any comments or queries about the content of the samples can be submitted to ELEXON by email to [TERRE.testing@elexon.co.uk](mailto:TERRE.testing@elexon.co.uk). ELEXON will investigate any issues raised, and publish a summary of issues and their resolution. (Participants will not be identified by name in the summary).

ELEXON cannot provide any support with investigating the participant's own systems.

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There are four functional areas included in interface testing, as described in the following subsections.

## 4.1.2 SAA settlement reports

ELEXON will provide sample files of SAA-I014 version 9, sub-flows 1, 2 and 4.

Early in this phase ELEXON will provide sample files which illustrate the data flow formats with dummy data. The files will be produced from earlier stages of ELEXON's internal testing, and participants should not expect calculation results to be consistent with each other.

Later on in this phase ELEXON will provide sample files which illustrate the formats with more realistic data. The data will be based on a copy of production data (anonymised where appropriate), with additional data constructed to test new features. These will be produced from later stages of ELEXON's internal testing. Calculation results should be consistent, subject to the caveat that the systems will still be under test, so there could be some outstanding defects.

For the 'realistic' SAA sample files, ELEXON will also provide a CRA report to illustrate the reference data used in producing the SAA file. (For example, the test VLP and SBMU identifiers).

## 4.1.3 Bilateral interfaces with NGESO

ELEXON will provide examples of the new data feed from BMRS for publishing the daily GBP-EUR exchange rate:

- API – EURGBFXDATA: New flow to provide Exchange Rate

NGESO will provide ELEXON with samples of the new and amended data flows required for TERRE. ELEXON will review them manually, and will use them in its internal testing of BMRS. The relevant flows are:

- BMRA-I002: BOALF - RR Activation flag added
- BMRA-I029: Transparency data
- BMRA-I036, comprising:
  - RR Bid Data
  - GB Need Met
  - RR Activation data
  - RR Interconnector Schedule
  - TERRE Clearing Price Data

## 4.1.4 New flows related to SBMU settlement

There are several new flows relating to requesting MSID data from HHDAs and providing the data needed for SBMU settlement calculations. In the interface testing phase ELEXON will provide sample files for the most significant data flows, to help participants with developing their own systems.

ELEXON will provide samples of the following outgoing data flows:

- P0287 Secondary Half Hourly Delivered Volumes (from SVAA to Suppliers)
- P0288 Secondary Half Hourly Consumption Volumes (from SVAA to VLPs)

ELEXON will provide samples of the content expected in the following *incoming* data flows:

- D0385 Metering System Half Hourly Metered Data (from HHDAs to SVAA)
- P0282 MSID Pair Delivered Volume Notification (from VLPs to SVAA)

Participants will be able to test sending their own versions of these data flows during integration testing, which will also provide the opportunity to exercise other flows such as confirmation/rejection of data.

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## 4.1.5 Samples of new BMRS data flows for industry

ELEXON will provide examples of the new data flows that will be available from BMRS (as listed in section 3.6).

## 4.2 Industry integration testing

### 4.2.1 Testing arrangements for integration testing

For integration testing, ELEXON will use a test environment with the following features:

- Connectivity to exchange files with industry via the routes used for the production CVA and SVA arrangements
- Test data based on a copy of production data (anonymised where necessary)
- Additional test data constructed to support test scenarios
- Latest versions of all settlement software, following system testing.

ELEXON will draft test plans and scenarios and agree them with participants, and will provide web-based tools for logging issues and publishing how they have been resolved.

There are three functional areas for integration testing, as described in the following subsections.

### 4.2.2 Bilateral testing with NGESO

Bilateral testing with NGESO will focus on the flows exchanged between NGESO's systems and BMRS. This will cover TERRE trading data and changes to transparency data.

Scenarios for testing will be agreed between ELEXON and NGESO.

### 4.2.3 Testing of SBMU processes

For SBMU-related processing there are two areas to be considered, as described in BSCP602.

The first area concerns maintaining the SVA Metering System Balancing Services Register, which records the MSID Pairs that are allocated to each SBMU. The processes involve notifying HHDAs to ensure that they can send metered volumes, and notifying VLPs when an MSID Pair Allocation is lost.

The second area concerns the data that HHDAs and VLPs need to provide to SVAA for each settlement day. VLPs provide delivered volumes for each MSID Pair in their SBMUs, and HHDAs provide the metered volumes, as requested through the notification process. These values are used by SVAA to calculate the energy volumes that will be used in settlement for each SBMU, and the resulting adjustments to Supplier volumes. Reports are sent to VLPs and to affected Suppliers.

Standard scenarios for testing will be produced by ELEXON. We will then work with participants to tailor scenarios, by agreeing on sample VLP and SBMU information to be used in the tests.

### 4.2.4 With all participants for BMRS

Industry testing will include an opportunity for participants to test receiving the new messages that will be available on BMRS. Information can be seen on web pages and can also be received via TIBCO (across high grade lines) or via APIs.

The changes to BMRS mostly relate to trading in the TERRE market, and so ELEXON will need a feed of test data from NGESO which can then be published. The timescales for this stage of testing are therefore likely to be affected by NGESO's derogation request.

## 4.3 Industry end to end testing

End to end testing will form part of NGESO's parallel run and cutover to the TERRE market arrangements. There are no plans to conduct end to end testing for wider access arrangements on their own.

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NGESO will lead on the planning for this phase, and ELEXON will work closely with them to support market reporting and settlement processes as part of the tests. The timescales for this phase of testing will be affected by NGESO's derogation request.

## 5. NEXT STEPS

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### 5.1 Identifying industry participants in testing

Participants will be invited to register their interest in industry testing in early August. ELEXON will then ensure that they are kept informed of further updates on test planning, and engaged in discussions on the detail of test plans.

### 5.2 Interface testing

The expected timescales for interface testing are as follows:

Early August	Sample SAA-I014 files with dummy data
August / September	Data flows between NGESO and ELEXON
September	All other sample data flows as specified in section 4.1

ELEXON will publicise and distribute new types of sample file as soon as they become available.

### 5.3 Integration testing

ELEXON will publish more detail on test plans and scenarios in early September, and will collaborate with industry participants to agree the test plans. Integration testing is expected to start in early October.

### 5.4 End to end testing

ELEXON is working closely with NGESO to assess the impact of the TERRE derogation request, and will coordinate plans for end to end testing of TERRE trading.

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## 6. DOCUMENT CONTROL

### 6.1 Document change history

Version	Date	Author	Summary of change
1.0	08/08/19	Isobel Squire	Initial version for publication to industry
1.1	13/08/19	Isobel Squire	Minor corrections

### 6.2 References

Ref	Document	Version	Date
1.	P344 Final Modification Report		19/06/18
2.	Overview of configurable item changes to deliver the P344 solution		17/10/18
3.	P380 Final Modification Report		18/03/19
4.	P386 Final Modification Report		14/06/19
5.	CP1517 Assessment Report		25/06/19
6.	CP1517 Second CP consultation	1.0	08/07/19
7.	BSCP503 Half Hourly Data Aggregation for SVA Metering Systems	23.0	27/06/19
8.	BSCP602 SVA Metering System Balancing Services Register	1.0	28/02/19
9.	NETA Interface Definition and Design Part 1 (document and spreadsheet)	Draft F for CP1517	09/07/19
10.	NETA Interface Definition and Design Part 2 (relevant to NGESO)	Draft F for CP1517	09/07/19
11.	SVA Data Catalogue Part 1: Data Interfaces	Draft F for CP1517	09/07/19
12.	SVA Data Catalogue Part 2: Data Items	Draft F for CP1517	09/07/19
13.	BMRS API Data Push User Guide	As amended for TERRE	09/07/19
14.	MRA Data Catalogue (at <a href="https://dct.mrasco.com">https://dct.mrasco.com</a> )		

\*Items 9 to 12 are subject to final approval of CP1517 at BSC Panel Committees in August and September.

The Draft F versions of documents can be found via this web page:

<https://www.elexon.co.uk/change/releases/p344-implementation-guidance-project-terre-wider-access/>

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## 6.3 Glossary

List of abbreviations and technical terms used in the document.

Term	Description
API	Application Programming Interface, a way of exchanging data between systems.
BMRS	Balancing Mechanism Reporting System
BM Unit or BMU	A Balancing Mechanism Unit
CVA	Central Volume Allocation, which refers to the parts of the BSC arrangements that relate to energy production and consumption other than in Supplier BM Units.
EBGL or EB GL	Electricity Balancing Guideline – European regulations governing balancing services in the single electricity market.
ECVAA	Energy Contract Volume Allocation Agent, a BSC Agent. (May also refer to their IT systems).
EMFIP	European Market Fundamental Information Platform – ENTSO-E’s market transparency data platform.
ENTSO-E	European Network of Transmission System Operators for Electricity
FAA	Funds Administration Agent, a BSC Agent. (May also refer to their IT systems).
HHDA	Half-Hourly Data Aggregator, a Supplier Agent.
LIBRA	The European market platform for RR trading.
MSID	Metering System identifier.
NGESO	National Grid Electricity System Operator
RR	Replacement Reserve – a type of balancing service that system operators can procure from Balancing Service Providers.
SAA	Settlement Administration Agent, a BSC Agent. (May also refer to their IT systems).
SBMU	Secondary BM Unit, a new type of BMU that can be used by VLPs.
SVA	Supplier Volume Allocation, which refers to the parts of the BSC arrangements that relate to energy consumption in Supplier BM Units.
SVAA	Supplier Volume Allocation Agent, a BSC Agent. (May also refer to their IT systems).
TERRE	Trans-European Replacement Reserve Exchange – a European market for trading Replacement Reserve as a balancing service.
TIBCO	A software tool for exchanging messages between systems.
VLP	Virtual Lead Party, a new BSC Party role introduced as part of the wider access arrangements.