

ELEXXON

FEBRUARY 2023 RELEASE

Industry Test Plan

Confidential

Document owner
Diljot Gulshan

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1 Introduction

1.1 Document Purpose

The purpose of this document is to set out the scope, approach and plan for testing the Feb 2023 release changes with industry participants.

This document is intended for industry participants who may wish to be involved in testing the February 2023 release (i.e. Virtual Lead Parties (VLPs), Asset Metering Virtual Lead Parties (AMVLPs), Suppliers, Facility Operators and Half Hourly Data Aggregators (HHDAs).

1.2 February 2023 Release

The February 2023 release includes implementation of two modifications that impact the BSC Systems:

- **P376** - Utilising a Baselining Methodology to set Physical Notifications for Settlement of Applicable Balancing Services
- **P419** - Enhanced Reporting of Demand Data to the NETSO to facilitate BSUoS Reform

There are a few other changes included in this release which do not affect the BSC systems and hence not in scope for industry testing. This release is scheduled to go-live on 23rd February 2023

1.3 Industry Testing Purpose

Industry testing will allow industry participants and other parties an opportunity to test their internal systems with the new P376 changes relevant to them.

They will also be able to familiarise themselves with the new declaration form on the Elexon BSC website and Communities Declarations pages developed for P419.

Testing with the exchange of files will enable the following:

- Support participants with validating their own systems
- Validate the interface file formats
- Allow participants to produce and receive files in order to test their data load routines

2 P376 Test Scope

2.1 Functionality

Functionality to be tested via Salesforce Communities:

- Registration (creation / modification and deletion) of BM Unit Baselining Status
- Registration (creation / modification and deletion) of BM Unit Allocation Baselining Details
- Event Days (creation / modification and deletion)

Above can be tested by manual entry into the Salesforce Communities screens and/or by uploading relevant p-flow files via Salesforce Communities screens. This scope is relevant to Virtual Lead Parties (VLPs) and Asset Metering Virtual Lead Parties (AMVLPs) using Secondary BM Units AND to Suppliers using Additional BM Units.

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Below is a list of suggested scenarios for P376 functionality. However, it will be up to the participants to understand the changes and select the test scenarios that are relevant for them.

Please see [Data Flows](#) section for full list of p-flows (incoming and outgoing) in scope for testing.

ID	Test Scenario	Testing Method
P376_SC01	Registration or Re/allocation of an MSID Pair creating some Event day records with default values	Salesforce Communities screens
P376_SC02	Registration or Re/allocation of an MSID Pair creating some Event day records with specific values	Salesforce Communities screens
P376_SC03	Register an Additional or Secondary BM Unit with Default Baseline Status	Salesforce Communities screens
P376_SC04	Allocate AMSID Pair to a BM Unit for Asset Metering creating a Baseline Allocation details record with correct values (default or otherwise) for Baseline Indicator, Baseline Methodology, Effective from date and Effective to date for each allocation record created	Salesforce Communities screens
P376_SC05	Allocate AMSID Pair to a BM Unit for Differencing creating a Baseline Allocation details record with correct values (default or otherwise) for Baseline Indicator, Baseline Methodology, Effective from date and Effective to date for each allocation record created	Salesforce Communities screens
P376_SC06	Create a BM Unit Baseline Status record	Salesforce Communities screens or P0335 file
P376_SC07	Modify BM Unit Baseline Status record	Salesforce Communities screens or P0335 file
P376_SC08	Delete BM Unit Baseline Status record	Salesforce Communities screens or P0335 file
P376_SC09	Create Baseline detail record	Salesforce Communities screens or P0326 file
P376_SC10	Modify Baseline detail record	Salesforce Communities screens or P0326 file
P376_SC11	Delete Baseline detail record	Salesforce Communities screens or P0326 file
P376_SC12	Create Event Day record	Salesforce Communities screens or P0323 file
P376_SC13	Modify Event Day record	Salesforce Communities screens or P0323 file
P376_SC14	Delete Event Day record	Salesforce Communities screens or P0323 file
P376_SC15	Lead parties (Supplier, VLP or AMVLP) to provide BMU Submitted Expected Volumes for settlement dates where the BMU is baselined (Baseline Indicator True) and has MSID or AMSID Pairs allocated to it with Baseline Indicator "Submitted"	P0328 file
P376_SC16	Generation of file which reports values calculated from the baselined and submitted expected volumes during the settlement expected volume calculation to determine the baselined BMU position	P0332 file

ID	Test Scenario	Testing Method
P376_SC17	Generation of file per Supplier/VLP/AMVLP which reports values calculated from baselined and expected volumes during the baselining and settlement expected volumes calculation to determine the Additional/Secondary BMU position.	P0333 file
P376_SC18	Generation of file containing a one-off history of metered data for MSIDs per HHDA	D0391 file
P376_SC19	HHDA sends D0393 HH metering system metered volume history file in response to D0391. This contains the metered volume for historic settlement dates for an MSID.	D0393 file
P376_SC20	HHDA sends D0392 Invalid Metered Volume History Request file in response to D0391.	D0392 file

2.2 Data Flows

There are a number of data flows impacted by the P376 change as shown in the table below. Industry participants to test the flows relevant to them.

ID	Data Flow Name	From	To
P0323	BM Unit Baselining Event Day	Supplier / VLP / AMVLP	PMP
P0324	Rejection of BM Unit Baselining Event Day	PMP	Supplier / VLP / AMVLP
P0325	Confirmation of BM Unit Baselining Event Day	PMP	Supplier / VLP / AMVLP
P0326	BM Unit Allocation Baselining Detail	Supplier / VLP / AMVLP	PMP
P0327	Rejection of BM Unit Allocation Baselining Detail	PMP	Supplier / VLP / AMVLP
P0334	Confirmation of BM Unit Allocation Baselining Detail	PMP	Supplier / VLP / AMVLP
P0335	BM Unit Baselining Status	Supplier / VLP / AMVLP	PMP
P0336	Rejection of BM Unit Baselining Status	PMP	Supplier / VLP / AMVLP
P0337	Confirmation of BM Unit Baselining Status	PMP	Supplier / VLP / AMVLP
P0328	BM Unit Submitted Expected Volume Notification	Supplier / VLP / AMVLP	DCP
P0330	BM Unit Submitted Expected Volume Acceptance	DCP	Supplier / VLP / AMVLP
P0329	BM Unit Submitted Expected Volume Rejection	DCP	Supplier / VLP / AMVLP
P0331	BM Unit Submitted Expected Volume Warning	DCP	Supplier / VLP / AMVLP
P0332	BM Unit Settlement Expected Volumes (to SAA)	DCP	SAA
P0333	Baselining Expected Volume Report	DCP	Supplier / VLP / AMVLP
D0391	Metering System Historic Data Request	DCP	HHDA
D0393	Metering System Historic Data Request Acceptance	HHDA	DCP
D0392	Metering System Historic Data Request Rejection	HHDA	DCP

2.3 SAA-I014 sub flow files

New versions for SAA-I014 sub flow files:

- SAA-I014 sub flow 1 file – Version 12 (For BSC Trading Parties other than AM/VLPs including Suppliers)
(Note: The new data item included in Version 12 will not be populated for non-suppliers)
- SAA-I014 sub flow 2 file – Version 12 (For National Grid)
- SAA-I014 sub flow 4 file – Version 12 (For VLPs/AMVLPs)

N.B. National Grid do not intend to move to the new version 12 on the implementation day. As a result, we will continue publishing version 11 of sub flow 2 until they are ready.

3 P419 Test Scope

Industry are not doing any changes in their systems for the declaration process but they may want to run through the process and check it works for them from a legal compliance perspective.

Facility Operators may want to test the following via a test copy of the **Elexon BSC website**:

- Verify access to online declaration form
- Complete and submit online declaration form
- Receiving email notifications from Elexon BSC Website

Suppliers may want to test the following via **Salesforce Communities**:

- New Non Final Demand Declaration - process continued after submission of the Elexon BSC website form
- New Non Final Demand Declaration - full process including uploading Duos Certificate and e-signature files
- Manage Declarations
 - Change of MSID
 - Change of Supplier
 - Change of Agent
 - Withdrawal of Storage Facility Declaration
- Receiving email notifications from Elexon Kinnect

Below is a list of suggested scenarios for manual entry in **Salesforce Communities**. However, it will be up to the participants to understand the changes and select the test scenarios that are relevant for them.

ID	Test Scenario
P419_SC01	The Facility Operator (FO) registers a new Non-Final Demand Declaration for a single Supplier in a Facility
P419_SC02	The Supplier's Director approves the Non-Final Demand Declaration submitted by the FO
P419_SC03	The Supplier's Director rejects Non-Final Demand Declaration submitted by the FO
P419_SC04	The Facility Operator (FO) receives a rejection notification of submitted NFDD form.
P419_SC05	The Facility Operator (FO) registers a new Non- Final Demand Declaration for multiple different (import) suppliers in the same facility from the Elexon Website.
P419_SC06	The Facility Operator View and Amend rejected NFD declaration form for Single and Multiple Suppliers
P419_SC07	The Facility Operator can Save an NFDD form as Draft
P419_SC08	The Supplier registers and submits a new Non-final Demand Declaration form in Elexon Kinnect (submission from Scratch)
P419_SC09	The Supplier can Save a new NFDD form as Draft
P419_SC10	The Supplier can Amend a NFDD form Saved as Draft from Elexon Kinnect
P419_SC11	The Supplier can View a submitted NFDD form
P419_SC12	The Supplier can Amend a NFDD form from the Website which is Saved in draft
P419_SC13	The Supplier updates NFDD form with Incomplete status
P419_SC14	The Supplier receives a NFDD form with a Rejection status
P419_SC15	The Supplier receives a NFDD form with a Valid status

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ID	Test Scenario
P419_SC16	The Supplier receives a NFDD form with a Withdrawn status
P419_SC17	The FO express interest to Withdraw a Facility
P419_SC18	The Assistant (any other category within the company) registering a new non-final demand facility in Elexon Kinnect
P419_SC19	The Assistant (any contact within the company) View/Amend a non-final demand facility Saved as Draft in Elexon Kinnect

Below email notifications will be sent to the **Facility Operator** as part of the declaration process:

ID	Email Subject	Process (Action that triggers Notification)
N/A	Your Non-Final Demand Declaration was Saved as Draft	Facility Operator clicking on 'Save as Draft'
N/A	Confirmation of Non-Final Demand Declaration	Director successfully submits the NFDD for Supplier to complete in Elexon Kinnect
N/A	Non-Final Demand declaration rejected by Director	Director rejecting the NFDD
N/A	Your Non-Final Demand Declaration was submitted	Facility Operator submitting the NFDD regardless of a Director's Email Address being added or not

Below email notifications will be sent to the **Director** as part of the declaration process:

ID	Email Subject	Process (Action that triggers Notification)
N/A	Please complete your Non-Final Demand declaration	Facility Operator submitting the NFDD and adding a Director's Email Address
N/A	Confirmation of signed Non-Final Demand declaration	Director successfully submits the NFDD for Supplier to complete in Elexon Kinnect

Below email notifications will be sent to the **Supplier Declaration Contact** as part of the declaration process, hence suppliers may want to check these:

ID	Email Subject	Process (Action that triggers Notification)
NF97	"Elexon BSC Registration: Declaration Draft" (Not implemented)	Receipt of Declaration from BSC Website
NF98	"Elexon BSC Registration: Declaration Incomplete"	Declaration becomes Incomplete
NF99	"Elexon BSC Registration: Declaration Rejected"	Declaration Is Rejected
NF100	"Elexon BSC Registration: Operator Withdrawal confirmation"	Declaration is withdrawn
NF101	"Elexon BSC Registration: Declaration Valid"	Declaration becomes valid

4 Test Approach

4.1 Test Environment

Elexon will provide access to a relevant test environment which will have the most up to date P376 and P419 changes including all defect fixes from previous test phases.

The test environment will be setup with the following:

- Test data based on a copy of production data (anonymised where necessary)
- Updated version of Salesforce (Communities)
- Connection to legacy SAA / CRA test system

4.2 Salesforce (Communities)

Test participants will be given access to Salesforce Communities application within the relevant test environment so that they can test the screens relevant to P376 and P419 changes.

Elexon Test Lead will arrange this access and provide participants with the system link and login details prior to the start of testing.

4.3 Data Flows

For data flows, testing will be carried out by exchange of relevant sample files between industry participants and Elexon.

ELEXON will provide sample files from previous test phases for the data flows in scope. Sample files will be compliant with formats defined in the latest P376 IDD document. The sample files will be distributed to all potential test participants in advance, so that they can prepare for testing as appropriate.

Where possible, sample files will be exchanged using the actual mechanisms but paths planned for testing such as the following:

- Upload via FTP (for large files such as the P0328)
- Upload via Salesforce Communities screens

Elexon will provide relevant FTP connection details for the environment in question and support participants in getting connected successfully. This will be coordinated by the Elexon test lead as appropriate.

Where it is not possible to use above methods, sample files will be exchanged manually via email or a web page (whichever is most suitable). Where the content is confidential it will be encrypted and password protected.

4.4 SAA-I014 sub flow files

Participants will be sent the new versions of the files listed below via email by Elexon to load into their test systems and verify their suitability as appropriate.

- SAA-I014 sub flow 1 file – Will be generated specifically for each BSC Party (other than VLP/AMVLP)
- SAA-I014 sub flow 2 file – One file to be generated for National Grid

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- SAA-I014 sub flow 4 file – Will be generated specifically for each VLP/AMVLP

4.5 Elexon Website – Online Declaration Form

Link to the test website declaration form will be provided to the participants by Elexon.

This will be the latest version of the P419 declaration form developed which will have been integrated with Salesforce Communities within the test environment being used.

5 Test Process

The following process will be followed in order to plan, prepare and execute industry testing:

1. The Elexon project team will be responsible for planning and arranging the activities to be carried out for Industry testing. The planning will be initiated via the Industry Test Plan (this document) and completed with the support of relevant meetings carried out between the Elexon project team and industry participants as appropriate.
2. Once the Industry Test Plan has been agreed by the Elexon project team, relevant testing information from this document will be distributed to industry participants inviting them to sign up to participate in the testing via a testing circular email.
3. When a participant signs up for testing, the Elexon team will check the following:
 - a. Will they have made the P376 changes within their systems and carried out some testing for these by February 2023 (if applicable)
 - b. What testing do they plan to carry out - the participants will decide what is relevant for their testing using the test scope and scenarios provided as a guideline by Elexon.
4. Once participants have registered for testing, Elexon will engage with the participants on a regular basis to assist them with preparation for testing all the way up until the start of test execution.
5. If required, a testing kick off session will be held prior to the start of test execution to run through test activities planned, responsibilities, timelines and any queries they may have at this point. This could be a joint session between participants or separate sessions, whichever is most suitable.
6. Participants will then execute their planned tests within the allocated test execution window in February and report back their respective test results individually to the Elexon Test Lead on a daily basis via email and/or via the daily test progress meetings. This includes reporting any issues encountered. Please see [Defect Management](#) section for full details on the defect management process to be followed.
7. Test execution will run as one cycle only; plan to fix and retest any defect found will depend on the severity of the defect.
8. A daily test progress meeting will be held during the test execution period to discuss overall test progress and do an initial triage of new issues logged by participants.
9. The Elexon Test Lead will produce a daily test progress report at the end of each working day during the test execution window. This report will be sent out via email to all relevant stakeholders.
10. At the end of the testing phase, Elexon Test Lead will collate test results for all participants along with details of issues raised and will produce and circulate the Industry Test Exit Report. This report is mainly for Elexon stakeholders in order to provide them with any information that may be relevant for the release go-live decision/activities. However, the report can also be made available to all test participants either via email or a webpage on the Elexon website if required.
11. The Elexon team will make recommendations based on test activities carried out and results achieved including review and agreement on the following:
 - a. All critical and high severity defects will need to have been resolved

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- b. All low severity defects will need to have been reviewed and accepted based on the agreed action/resolution plans
- c. Any enhancements identified will be reviewed and addressed as part of future releases.

6 Defect Management

The approach to defect management and triage will be as follows:

1. Any defects/observations found during testing will be recorded by the participants and sent to the Elexon Test lead via email.

The email should contain the following details:

- Defect / Observation description
- Expected behaviour vs Actual behaviour
- Steps to reproduce
- Relevant screenshots attached

2. All defects will be triaged by Elexon and logged within their internal defect management tool, so that they can be prioritised, investigated and resolved by the relevant party. Elexon will be tracking progress of all the defects within this tool.

Please Note: ELEXON cannot provide any support with investigating the participant's own systems. Participants will need to liaise with the third party suppliers who maintain their software for resolving these issues.

3. Participants should join the daily test progress meeting arranged by Elexon to discuss these defects. Elexon will provide updates for defects in these calls and confirm plans for resolution. If a defect is impacting a participant's testing then this will be closely monitored by the Elexon test lead who will directly inform the participant via email as soon as it has been fixed.
4. Once the defects are fixed, participants may be asked to retest the defects to verify that they have been resolved.

7 Participant Responsibilities

Industry participants will have the following responsibilities:

- Ensure that their own systems have been prepared to cater for the P376 changes
- Run tests relevant to their systems/interfaces and report test results back to the Elexon project team
- Report defects/issues found in files received from BSC systems during testing to the Elexon project team
- Liaise with the relevant service providers to fix defects in their own systems
- Attend the daily test progress meetings setup by Elexon project team to discuss any queries/issues (when required)
- Retest defect fixes (when required)

Participants will not be expected to produce any formal test deliverables other than provide a summary of what they tested and conclusion. The Elexon Test Lead will collate all testing information and report back to stakeholders as appropriate.

Participants may share their test results / evidences in whichever format works for them. Elexon Test Lead will work with the participants to ensure the information required is provided for defect investigation.

Once Elexon has invited participants to sign up for testing, participants will be able to send any queries they may have about the release or testing to the Elexon 'Releases' mailbox releases@elexon.co.uk

This mailbox will be monitored on a regular basis by the Elexon project team to ensure timely resolution of queries.

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All queries sent to the mailbox will be added to an internal query log which will be used to track these queries and discuss them at the daily test progress meetings if required.

8 Elexon Responsibilities

Elexon will be responsible for the following:

- Create and finalise Industry Test Plan
- Provide participants with relevant details of industry testing via an appropriate document and invite them to participate in testing
- Communicate relevant updates for the Feb 2023 release to industry participants
- Monitor the Releases mailbox and ensure queries are addressed in a timely manner
- Facilitate test preparation for each participant including the following:
 - Sharing of sample data flow and SAA sub flow files
 - Testing of the D0391 / D0392 / D0393 with HHDAs
 - Arranging access to test environment
 - Verify data being used in the test files is present in the test environment, if not suggest appropriate alternatives.
- Work with own service providers to ensure test environment is setup as per requirements
- Facilitate execution of tests for each participant
- Arrange and chair daily test progress meetings
- Liaise with relevant service providers for any blocking issues/defects impacting Industry testing activities
- Monitor and follow up on progress of defects from creation to closure
- Monitor issues for impact to industry test activities and/or schedule
- Create and share daily test progress reports
- Collate all test results and create the Industry test exit report

Elexon test lead will be leading and co-ordinating all above activities with support from the rest of the Elexon project team and relevant service providers as appropriate.

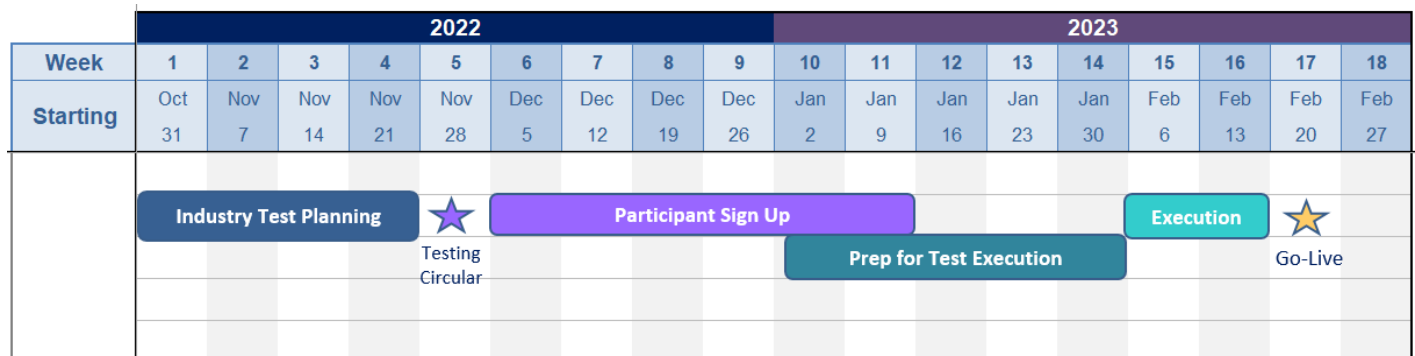
9 Deliverables

Deliverable	Description	Produced By
Industry Test Plan (this document)	Document that sets out ELEXON's test approach as well as defining the test scope, process and scenarios for testing the Feb 2023 release with industry participants	ELEXON
Daily Test Progress Reports	An email summarizing latest test results and currently open defects	ELEXON
Industry Test Exit Report	Document summarising the test activities carried out, test coverage planned vs achieved and final test results	ELEXON

10 Test Schedule

The expected timescales for industry testing activities are as follows:

Task	Start Date
Industry Testing Planning	31 st October – 25 th November 2022
Industry Testing Circular (send to participants)	W/C 28 th November 2022
Participant Sign Up Period	From 5 th December 2022
Preparation for Execution	3 rd January 2022 – 3 rd February 2023
Test Execution	6 th – 17 th February 2023



11 Document Control

11.1 Document change history

Version	Date	Author	Summary of change
0.1	14/11/2022	Diljot Gulshan	First draft issued for internal review
0.2	23/11/2022	Diljot Gulshan	Updated to address review comments
0.3	30/11/2022	Diljot Gulshan	Further updates made to document
1.0	30/11/2022	Diljot Gulshan	Final version published to release webpage

11.2 References

Ref	Document
1.	ELEXON-CGI P376_P419 Plan v0.18
2.	February 2023 Release: Notification of scope

11.3 Review & Distribution

Name	Role	Organisation
Mahesh Gogtay	Project Manager	Elexon
Colin Berry	Market Architect	Elexon
Lorna Lewin	Market Architect	Elexon
Kelly Ings	Market Architect	Elexon
Chris Spence	Product Owner (PMP)	Elexon
Vivienne Njobi	Product Owner (PMP)	Elexon
Riccardo Lampini	Product Owner (S&I)	Elexon
Nick Baker	Product Owner (S&I)	Elexon

11.4 Approvals

Name	Role	Approved	Date
Mahesh Gogtay	Elexon Project Manager	Yes	30/11/2022

12 Glossary

Term	Description
AMSID	Asset Metering System identifier
AMVLP	Asset Metering Virtual Lead Party
BM Unit	Balancing Mechanism Unit
BSC	Balancing and Settlement Code
BSCCo	Balancing and Settlement Code Company
BSUoS	Balancing Services Use of System charge
CRA	Central Registration Agent
DCP	Data and Calculations Platform
FTP	File Transfer Protocol
HHDA	Half-Hourly Data Aggregator
HHDC	Half-Hourly Data Collector
MSID	Metering System identifier
NETSO	National Electricity Transmission System Operator
PMP	Participant Management Platform
SAA	Settlement Administration Agent
SBMU	Secondary Balancing Mechanism Unit
S&I	Settlement & Invoicing
SVA	Supplier Volume Allocation
SVAA	Supplier Volume Allocation Agent
VLP	Virtual Lead Party