



# POWER OF CHOICE IMPLEMENTATION PROGRAM

| B2B INDUSTRY TEST PLAN (~~DRAFT~~ VERSION 10.01)

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## VERSION RELEASE HISTORY

Version	Date	Summary of Changes
0.1	10/05/2017	First draft issued for discussion with the Power of Choice – Industry Test Working Group (POC-ITWG)
<u>1.0</u>	<u>25/05/2017</u>	<u>B2B Industry Test Plan finalised as Version 1.0, incorporating POC-ITWG feedback received on version 0.1</u>



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# 1. INTRODUCTION

This B2B Industry Test Plan outlines industry testing activities as part of Phase 2 for Power of Choice (POC) Implementation Project. This document should be read in conjunction with the POC Industry Test Strategy. Any deviations from the POC Industry Test Strategy for this B2B Industry Test Plan are outlined within this document.

## 1.1 Background

The objective of AEMO's POC Implementation Program is to design and implement the required changes to electricity metering, retail market arrangements and infrastructure to give effect to rule changes arising from the POC Review.<sup>1</sup>

### 1.1.1 Scope of the B2B Industry Testing Plan

This test plan ~~talks about details~~ the functions that will be available in the ~~Prepre-Production~~ environment during Phase 2 Industry Test (B2B). Participants are encouraged to verify and test this functionality which are good to test/verify functions before prior to Phase 3 Market Trial which ~~has will~~ include the full functionality to test all POC B2B ~~&and~~ B2M related rule changes. During Phase 2 Industry Test (B2B):

- AEMO will not coordinate any test execution during this phase. Participants are encouraged to use this phase to verify the connectivity and schema validations before moving to full Market Trial.
- There will not be any workbook that is associated with this phase. Unscripted test execution can happen during this phase.

#### Items inside scope

This Industry Test Plan prescribes all activities that will allow AEMO and NEM market participants to test their systems changes (as required under the B2B rule changes) in the following areas:

- Connectivity Testing for MSATS Pre-Prod and e-Hub. Note: system registration for the web methods API portal (using the B2B e-Hub application form) will need to be completed to enable this to be available for a participant to test.<sup>2</sup>
- API connectivity and response testing.
- New R36 schema for ~~Business to Business~~ B2B.<sup>3</sup>
- B2M communications - all changes deployed for phase 1 testing will be available for verification by participants if they would like to use the time to perform shake out testing. ~~(This will not be coordinated by AEMO).~~

#### Items outside scope

This Industry Test Plan does not prescribe activities required for any testing activities associated with:

- Business to Business (B2B) end to end testing. This testing activity will be verified in the POC Market Trial Phase (Phase 3).
- Changes to NEM participants' supporting business systems that do not directly interact with AEMO's market systems (i.e. back-end systems).

<sup>1</sup> See AEMC website, <http://www.aemc.gov.au/Major-Pages/Power-of-choice>.

<sup>2</sup> See AEMO website, B2B e-Hub Accreditation Process ([http://www.aemo.com.au/-/media/Files/Electricity/NEM/Retail\\_and\\_Metering/B2B/B2B-eHub-Accreditation.pdf](http://www.aemo.com.au/-/media/Files/Electricity/NEM/Retail_and_Metering/B2B/B2B-eHub-Accreditation.pdf)) and B2B e-Hub Application Form ([http://www.aemo.com.au/-/media/Files/Electricity/NEM/Retail\\_and\\_Metering/B2B/B2B-eHub-Application-Form.docx](http://www.aemo.com.au/-/media/Files/Electricity/NEM/Retail_and_Metering/B2B/B2B-eHub-Application-Form.docx))

<sup>3</sup> See AEMO website, [http://www.aemo.com.au/Gas/IT-systems-and-change/Copy-of-aseXML\\_standards/aseXML-Schemas#r36](http://www.aemo.com.au/Gas/IT-systems-and-change/Copy-of-aseXML_standards/aseXML-Schemas#r36)



- Any bilateral testing between participants. Note: Participants can coordinate bilateral testing between themselves during this period, however reporting during Industry Test will not refer to bilateral testing or the outcomes specifically.
- Unchanged communication flows between AEMO's market systems and NEM participants' market interfacing systems.

Each NEM participant is responsible for their own preparedness in respect of the above matters and should account for such items within their own organisational testing program.

## 1.2 About this paper

### 1.2.1 Structure of this paper

This paper is structured as follows:

- Chapter 2 details the key dates and milestones of the industry testing phase.
- Chapter 3 details the scope and objectives of the industry testing phase.
- Chapter 4 details the test preparation activities.
- Chapter 5 details the test execution approach.

### 1.2.2 Reference documents

The following POC-related documents are relevant to the Industry Test Plan.

#	Document Name
1	POC Market Readiness Strategy <sup>4</sup>
2	POC Industry Test Strategy <sup>5</sup>
3	<del>MSATS Technical Specification<sup>6</sup></del> MSATS 46.88 Technical Specification <sup>7</sup>
4	<del>SMP Technical Guide Document<sup>8</sup></del> MSATS 46.89 Technical Specification <sup>9</sup>

<sup>4</sup> See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream>

<sup>5</sup> See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream/Industry-Test-Work-Group>

<sup>6</sup> See AEMO website, <http://www.aemo.com.au/Electricity/IT-Systems/IT-change>

<sup>7</sup> See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/IT-systems-and-change/IT-change>

<sup>8</sup> See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Systems-Work-Stream>

<sup>9</sup> See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/IT-systems-and-change/IT-change>



## 2. KEY DATES AND MILESTONES

### 2.1 Key milestones for the Industry Test Plan B2B

Table 1 – Key milestones

#	Milestone	Indicative date	NEM Participant
1	Industry Test Plan B2B first draft circulated	10 May 2017	AEMO
2	POC-ITWG meeting – review first draft of Industry Test Plan B2B	12 May 2017	All
3	Participant feedback due on second draft of Industry Test Plan B2B	19 May 2017	All
4	POC ITWG meeting <del>via teleconference</del> – discuss feedback and final draft of Industry Test Plan B2B	<del>29 May</del> <u>2 June</u> 2017 (tentative)	All
5	Registration of interest for participation for Industry Test B2B	29 May 2017	All
<u>6</u>	<u>MSATS pre-production release of B2B r36 schema and B2B e-Hub (for connectivity testing)</u>	<u>13 June 2017</u>	<u>AEMO</u>
<u>7</u>	<u>Commencement of Phase 2</u>	<u>19 June 2017</u>	<u>All</u>
<u>8</u>	<u>Completion of Phase 2</u>	<u>28 July 2017</u>	<u>All</u>





## 3. SCOPE AND OBJECTIVES OF INDUSTRY TEST B2B

### 3.1 B2B Industry Testing objectives

The overall objective of this phase of B2B Industry Testing is to support industry's operational preparedness for the "go-live" date by:

- Providing market participants, who are ready to participate in early testing, the opportunity and tools to verify:
  - Technical compliance against the related aseXML new schema R36, connectivity testing to MSATS Pre-Prod and e-hub and verifying APIs<sub>9</sub>.
  - Providing an opportunity for participants who did not participate in Phase one of testing to exercise changes delivered in phase one of industry testing. Changes detailed in the MSAT 46.88 Release Schedule (version 2.01) on 17 March 2017<sub>10</sub>.
- Providing an opportunity to reduce the identified risk associated with the compressed Market Trial timeframe<sub>11</sub>:
  - Identifying and fixing defects in AEMO's and participating parties' systems.
  - Setting up and trialling structures and processes that can be expanded and used during the full Market Trial (phase 3).

Participation in this phase of B2B Industry Testing is voluntary, however AEMO encourages participants to register and participate in the testing in order for the overall objective to be achieved. -Participants that do not take part in this phase will have an opportunity to undertake the B2B test scenarios during the full Market Trial (phase 3).

### 3.2 Industry Test B2B scope inclusions

No additional requirements have been defined for this phase of testing beyond those detailed in section 1.1.1.

### 3.3 Industry Test B2B scope exclusions

Industry Test B2B scope exclusions as defined in section 1.1.1 of this document. - No additional exclusions have been defined for this phase of testing.

<sup>10</sup> See the latest MSAT Release schedule here: <http://www.aemo.com.au/Electricity/IT-Systems/IT-change><http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/IT-systems-and-change/IT-change>

<sup>11</sup> See the POC Industry Risk and Issue log – risk R11, see <http://www.aemo.com.au/-/media/Files/Electricity/NEM/Power-of-Choice/PM/PoC-Industry-Register.xlsx>





## 4. INDUSTRY TEST PREPARATION

The ITWG will drive the test planning and preparation process, as per the ITWG Terms of Reference. All participants taking part in this Industry Testing phase are expected to provide industry test resources to be part of the ITWG.

### 4.1 Test registration

Participant are required to register to ensure they have access to HP SaaS Quality Centre (QC) that will be used by AEMO to track defects that may be identified during this phase. -Registration is also required to ensure any new participant IDs required for testing have been set up prior to testing commencing. -Registration requests should be sent via email to the POC inbox at [POC@aemo.com.au](mailto:POC@aemo.com.au). Registration requests should include the information in Appendix A, including participants' planned B2B interface (FTP, API push/push, API push/pull or MSATS Browser).

### 4.2 Test tools

HP SaaS Quality Centre (QC) will be used for defect management ~~only~~ during phase 2 of Industry testing.

### 4.3 Test scenarios, scripts and data

Test execution is not planned in HP SaaS QC for phase 2. Any testing conducted will be targeted unscripted testing.

#### 4.3.1 Test data

Participants have to identify any test data that is required for Phase 2 unscripted testing. AEMO will not refresh the pre-prod database for Phase 2. The pre-prod database will be refreshed before Phase 1 test execution and will have the production data with cut-off date as of 10<sup>th</sup> May 2017.

#### 4.3.2 Participants

This is an informal test phase, execution between participants will only occur where arrangements have been made between individual participants. -Participants will be able to perform limited B2B testing in isolation via the use of the Responder1 test participant.

### 4.4 Test environment

Industry testing for phase 2 will utilise the MSATS pre-production environment, managed by AEMO. It is recommended that participants test environments be as close to a replica of their go-live systems as possible. A diagram of the AEMO environment is documented in the Industry Test Strategy document under section 5.3.



## 5. INDUSTRY TEST EXECUTION APPROACH

### 5.1 Pre-requisites

New participants will have commenced registration<sup>12</sup> or accreditation<sup>13</sup> activities in order to have their MSATS pre-production ID and credentials issued.<sup>14</sup>

### 5.2 Entry criteria

Entry criteria for the Industry Test (B2B) are as follows. The entry criteria relates to individual participants.

Participants are requested to submit the checklist in Appendix B when ready to commence testing.

- Pre-production environment available:
  - Stable and reliable.
  - Adequate internal testing completed to be ready to commence industry testing.
- Participant credentials issued (for new participants).
- ~~Connectivity testing complete (for new participants).~~
- AEMO's HP SaaS QC is accessible and useable.

AEMO will confirm the following:

- HP SaaS QC is configured, accessible and useable by testing participants.

### 5.3 Exit/Completion criteria

Exit criteria for the test execution phase include:

- All open defects have agreed resolutions – e.g. plan in place to fix and retest prior to, or during, the Phase 3 (Market Trial).

### 5.4 Approach

This test phase is informal and will not validate each participant's outcomes or readiness for entry into phase 3. Execution during this phase will be managed by each participant to ensure they are able to participate in the third phase of testing. AEMO will be available to assist participants during this phase and resolve defects identified during this period.

### 5.5 Defect management

The overall defect management process is detailed in the Industry Testing Strategy document under section 7. Defects raised during industry testing will be captured in HP SaaS QC with the following information:

- Description of the defect and severity, who detected in and when.
- Defect owner (entered after gaining agreement between testing counterparties as to who owns the defect).

<sup>12</sup> The Application for Registration as a Metering Coordinator and the Metering Coordinator Registration Guide can be found here : <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Participant-information/New-participants/Application-forms-and-supporting-documentation>

<sup>13</sup> The Qualification Procedure for Metering Providers, Meter Data Providers and Embedded Network Managers, along with the Accreditation checklists can be found here: <http://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice---AEMO-Procedure-Changes-Package-2>

<sup>14</sup> Refer to the POC Industry Accreditation & Registration Plan for an overview of these activities. See <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream>



- Target fix date (entered by defect owner).

Defect status and progress on defect fixes will be discussed in the scheduled stand-up meetings.

For this Industry Testing, defects will be classified by severity only. See Appendix C for defect severity classification.

Defects will be fixed and re-tested during this test phase where possible. If the fix can't be delivered within this phase it will be re-tested in phase three. -See Appendix D for defect management status and lifecycle.

## 5.6 Test reporting

HP SaaS QC will not be used to track execution of any tests in this phase.- The only reporting available during this phase for presentation to the ITWG will relate to defects and the progress of defect resolution.

As detailed in the ~~i~~Industry ~~t~~Test ~~s~~Strategy the defect summary report will be available for all participants and will focus on status, severity, ~~priority~~, ownership, participants impacted, version and date detected against and actions required:

- Open defects and their progressive status
- Overall by severity and status
- By participant and severity and status

## 5.7 Test Support

All requests for support during the Industry Test B2B phase should be emailed to the POC inbox ([POC@aemo.com.au](mailto:POC@aemo.com.au)). Test support will be provided between 9:00 and 17:00 hrs (AEST) on business days. The subject line of the email should contain:

- **HP SaaS QC** for assistance with HP SaaS QC access or operation.
- **Industry Test B2B** for other queries.



## APPENDIX A. TESTING REGISTRATION

The following information is to be submitted to [POC@aemo.com.au](mailto:POC@aemo.com.au)

**ORGANISATION NAME:**

**TEST LEAD:**

**PARTICIPANT DETAILS:**

#	Participant role (LNSP, MDP, MC, etc.)	Participant ID/s	Jurisdiction/s	Registration status (existing, in progress, planned)	Targeted commencement date <u>(from 13 June 2017)</u>	Planned B2B interface (FTP, API push/push, API push/pull or MSATS Browser)
1	Retailer X	RetX1, RetX2	NSW, QLD	<del>Existing</del> Existing		
2	ENM X	TBA	NSW, QLD	In Progress		
3						
4						

Notes:

- 1) Please add a role for each individual participant role you wish to test under (e.g. in example above Retailer X will test under either RetX1 or RetX2 – not both).
- 2) If you intend to perform e-hub connectivity testing please be specific with regards to the type of connectivity testing.
- 3) Add in rows as required.