



POWER OF CHOICE IMPLEMENTATION PROGRAM

MARKET TRIAL TEST PLAN (VERSION 1.2)

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VERSION RELEASE HISTORY

Version	Date	Summary of Changes
0.1	25/05/2017	First draft issued for discussion with the Power of Choice – Industry Test Working Group (POC-ITWG)
1.0	23/06/2017	POC Market Trial Test Plan finalised as Version 1.0, incorporating POC-ITWG feedback received on version 0.1
1.1	28/06/2017	POC Market Trial Test Plan finalised as Version 1.1, correction to milestone table.
1.2	14/07/2017	POC Market Trial Test Plan finalised as Version 1.2, change to milestone #6



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1. INTRODUCTION

This Market Trial Test Plan outlines industry testing activities for the changes that have arisen as a result of the Power of Choice (POC) Implementation Program. AEMO are coordinating a series of tests to allow participants to validate these changes and ensure they are ready for the market go live on 1 December 2017. This document should be read in conjunction with the POC Industry Test Strategy. Any deviations from the POC Industry Test Strategy for this Market Trial 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.¹

1.1.1 Scope of the Market Trial Test Plan

The POC related rule changes relevant to this Market Trial Test Plan are listed below:²

- Expanding Competition in Metering and Related Services (MC) rule change.³
- Meter Replacement Processes (MRP) rule change.^{4,5}
- Embedded Networks (EN) rule change.⁶
- Electricity B2B Framework (B2B) rule change.⁷

Items inside scope

This Market Trial Test Plan prescribes all activities that will allow AEMO and NEM market participants to test their systems changes for the following areas:

- Business to Market (B2M) and Market to Business (M2B) communication flows between AEMO's market system and NEM participants' market interfacing systems via MSATS (including aseXML schema version R35).
- Business to Business (B2B) changes due to POC rule changes (including aseXML schema version R36) using the MSATS Browser, e-Hub FTP (MSATS) or API interfaces.

Items outside scope

This Market Trial Test Plan does not prescribe any testing activities associated with:

- Changes to NEM participants' supporting business systems that do not directly interact with AEMO's market systems (i.e. back-end systems).
- Any bilateral testing between participants. Participants can coordinate bilateral testing between themselves in parallel with the Market Trial, however reporting during Market Trial will not refer to bilateral testing.
- Unchanged communication flows between AEMO's market systems and NEM participants' market interfacing systems.

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

² See AEMC website, Power of Choice overview page, <http://www.aemc.gov.au/Major-Pages/Power-of-choice>.

³ Rule made; AEMC final rule determination published 26 November 2015.

⁴ Rule made; AEMC final rule determination published 10 March 2016.

⁵ Note that there are no system changes associated with the MRP rule change.

⁶ Rule made; AEMC final rule determination published 17 December 2015.

⁷ Rule made; AEMC final rule determination published 30 June 2016.



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 market trial testing phase.
- Chapter 3 details the scope and objectives of the Market Trial 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 Market Trial Test Plan.

#	Document Name
1	POC Market Readiness Strategy ⁸
2	POC Industry Test Strategy ⁹
3	POC Industry Registration & Accreditation Plan ¹⁰
4	AEMO Procedures, as approved by AEMO under the following NER Consultations: <ul style="list-style-type: none"> - POC Procedure Changes (Package 1)¹¹ - POC Procedure Changes (Package 2)¹² - POC Procedure Changes (Package 3)¹³
5	B2B Procedures, as approved by the IEC under the following NER Consultation: <ul style="list-style-type: none"> POC - B2B Procedure Changes¹⁴ B2B Procedures – change log¹⁵
6	MSATS 46.88 Technical Specification ¹⁶ and MSATS 46.89 Technical Specification
7	SMP Technical Guide Document ¹⁷

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

⁹ See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream/Industry-Test-Work-Group>

¹⁰ See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream>

¹¹ See AEMO website, <http://aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice---AEMO-Procedure-Changes-Package-1>

¹² See AEMO website, <http://aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice---AEMO-Procedure-Changes-Package-2>

¹³ See AEMO website, <http://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-Of-Choice---AEMO-Procedure-Changes-Package-3>

¹⁴ See AEMO website, <http://aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-choice---B2B-Procedures---Final-Report-and-Determination>

¹⁵ See AEMO website, <http://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice-B2B-consultation-2>

¹⁶ See AEMO website, <http://www.aemo.com.au/Electricity/IT-Systems/IT-change>

¹⁷ See AEMO website, <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Systems-Work-Stream>



2. KEY DATES AND MILESTONES

2.1 Key milestones for the Market Trial Phase

Table 1 – Key milestones

#	Milestone	Indicative date	NEM Participant
1	Market Trial Test Plan first draft	24 May 2017	AEMO
2	Market Trial Test Registration	16 June 2017	AEMO
3	Market Trial Test Plan finalised	16 June 2017	AEMO
4	Market Trial Test Workbook Test Scenarios finalised	26 June 2017	All
5	Market Trial Test Workbook - Test Scenario Participant Pairing finalised	28 July 2017	All
6	AEMO outage for data refresh (date of production data from 27 July at 15:00 hrs AEST)	17:00 hrs AEST 28 July - 07 August 2017	AEMO
7	Submission of Entry Criteria checklist	11 August 2017	Participants
8	Daily meetings commence	14 August 2017	All
9	Market Trial pre-production release	16 August 2017	AEMO
10	Cycle 1 (21 August 2017 – 8 September 2017) completes	8 September 2017	All
11	Cycle 2 (18 September 2017 – 6 October 2017) completes	6 October 2017	All
12	Cycle 3 (16 October 2017 – 3 November 2017) completes	3 November 2017	All
13	Draft Market Trial Completion Report	10 November 2017	AEMO
14	Final Market Trial Test Completion Report	17 November 2017	AEMO
15	“Go-live” date for POC reforms	1 December 2017	All



3. SCOPE AND OBJECTIVES OF MARKET TRIAL TEST

3.1 Market Trial Test objectives

Providing market participants the opportunity and tools to verify:

- Technical, functional and operational verification and validation against all B2B and B2M system changes under all POC-related rule and procedure changes, including system changes due to changes to the following procedures:
 - Customer and Site Details Notification Process
 - Meter Data Process
 - Service Order Process
 - One Way Notification Process
 - Consumer Administration and Transfer Solution (CATS)
 - Wholesale, Interconnector, Generator and Sample (WIGS)
 - National Metering Identifier (NMI) standing data schedule
- B2B e-hub functionality (MSATS Browser, FTP, APIs)

Provide a demonstration of the industry's operational readiness for the go-live date by:

- Participants conducting end-to-end business processes against multiple participants

3.2 Market Trial Test scope inclusions

Market Trial scope inclusions includes industry capability based technical, functional and operational testing as follows:

- Technical verification and validation – determines the technical state of the solution:
 - Validation of the B2M changes, aseXML schema (r35) validation.
 - Validation of the B2B changes, aseXML schema (r36) validation.
 - Validation of MSATS and B2B e-hub changes, connectivity and communication flows, interoperability of infrastructure, screen changes, aseXML schema (r37) validation.
- Functional verification and validation – determines the functional state of the solution:
 - Validation of the B2M and B2B solution as matched against required business functionality and business processes. The solution may not mirror production from a complete “go-live” perspective e.g. performed on low volumes of data and accelerated timeframes.
- Operational capability verification and validation – determines the state of the solution from a “go-live” perspective:
 - Verification of the technical, function and operational solution from a go-live perspective, affording market participants an opportunity to exercise internal business processes and applications to achieve the desired outcome prior to “go-live”:
 - Changes to business processes as a result of the updated procedures, including customers transfers, meter churn, re-energisation and de-energisation, move-ins, etc.
 - Introduction of new roles (Metering Coordinator and Embedded Network Manager).



3.3 Market Trial Test scope exclusions

Market Trial scope exclusions:

- Testing of non-critical business processes (unless otherwise agreed by the impacted participants).
- Testing of participants' back end systems. Reporting during the Market Trial will not refer to any issues found in participant's back end systems.
- Volume testing.
- Performance testing.
- Participants' individual agreements with MC's and communications outside of the B2B framework (e.g. notification via email with MC, MPB, etc. in place of B2B message) or participants who have not registered for this phase of testing.



4. MARKET TRIAL TEST PREPARATION

As detailed in the Industry Test Strategy, the POC Industry Test Working (ITWG) will drive the test planning and preparation process, as per the ITWG Terms of Reference. All participants taking part in the Market Trial are expected to provide industry test resources to be part of the ITWG.

4.1 Test registration

Each participant is required to register with AEMO prior to the commencement of the Market Trial test phase. Registration requests should be sent via email to the POC inbox at POC@aemo.com.au. Registration requests should include the information in Appendix A.

4.1.1 Participant ID and roles

The term 'Participant' is used to indicate a unique role that a given business is to adopt for the purpose of testing. For example, where a participating business fulfils the role of LNSP and MDP, these roles are classed as different Participants for testing purposes.

- If an organisation has more than one role (i.e. is more than one 'Participant', then it may need to separately carry out testing for each role (as each role has different transactions).
- If an organisation has more than one participant ID but they are all for the same role, then as long as the participant is using the same set of systems for each ID, the participant would only need to perform testing once for those IDs.
- Participants will detail which participant roles and ID they will be testing under as part of their Market Trial Test Registration.

Please note that participants must have an **existing participant ID** for each participant role they wish to test under in the Market Trial. Intending participants, including organisations undertaking new participant roles, need to follow the process to become registered or accredited in order to be issued a participant ID prior to taking part in the Market Trial.¹⁸

4.2 Test tools

HP SaaS Quality Centre (QC) will be used to manage the POC Market Trial execution, including test scenarios, test results and the tracking of test defects. HP SaaS QC will be configured by AEMO with all required information and will be accessible by all test participants.

4.3 Test scenarios, scripts and data

With such a large body of participants testing needs to ensure it is able to be effective and achieve outcomes for all parties involved. Testing is focused on ensuring participants have the opportunity to test the latest B2B schema and processes for each jurisdiction and communicate via the new e-Hub platform.

The approach to defining the test scenarios are based on verification of the most common transactions used by businesses with participants nominating the most common scenarios their businesses perform daily as the starting point for defining Market Trial scenarios. A review of this list will allow for scenarios individual businesses consider high risk to be highlighted, and/or added, with the outcome a final list that all parties can test. To ensure jurisdictional differences are tested, testing will be conducted for all jurisdictions.

¹⁸ Refer to the POC Industry Accreditation & Registration Plan, see <http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Readiness-Work-Stream>



The ITWG will be responsible for developing test scenarios, scripts and corresponding data sets. This information will be kept in a Market Trial Workbook that all participants can reference.

In terms of scenarios, the scripting and data requirements developed in these workshops will:

- Agree on the test scenarios required for Market Trial, including which scenarios participants intend to test (“intended scenarios”).
- Define the subsequent test scripts that will need to be executed.
- Agree on the scope of test execution and test scripts required by participant role (i.e. Retailers, Distributors, Metering Coordinator, Metering Providers, Metering Data Providers, Embedded Network Manager and AEMO).
- Agree on the approach and timing of test script execution.
- Agree on the data required, both baseline and dynamic, to support the execution of test scripts.

4.3.1 Test data

AEMO’s pre-production will be refreshed from 31 July to 7 August using production data from 27 July 2017 at 15:00 hrs (AEST). Existing NMIs will be able to be used for most tests and can be sourced from MSATS Pre-Production once the refresh is complete.

AEMO will have the required configuration data and the NMI ranges for the participants in the pre-production environment.

- With respect to the NMIs, where a test case requires the creation of a new NMI (new connection) the LNSP can create the NMIs (different CR codes) and pass it on to the retailers to execute as part of the functional scenario.
- AEMO will refresh MSATS Pre-Production environment prior to the start of Market Trial test execution. Participants can use this environment to identify test data for use during test execution.
- Multiple test data sets should be identified for each test script to allow for multiple executions of that test script in case of defects or problems in execution. Data identified will be mapped against every scenario in the data column in HP SaaS QC.

4.3.2 Market Trial Workbook

The Market Trial Workbook will document the test scenarios, data requirements, test participants and test calendar. This will be published on the AEMO website and will be developed in consultation with the ITWG. In addition, the test cases and steps will be uploaded by AEMO to HP SaaS QC in preparation for test execution.

The test calendar will map the number of days execution is planned for each scenario and even it over the test cycle period to ensure an even coverage of test execution over each day within a cycle.

4.4 Test environment

Market Trial Testing will utilise the MSATS pre-production and e-Hub API environment, managed by AEMO. Participants test environments will be as close to a replica of their go-live systems as possible. A diagram of the environment is documented in the Industry Test Strategy document under section 6.4.

The test environment will updated in line with the AEMO published release schedule, the MSATS 46.88 release and the MSATS 46.89 release. The environment will also have the B2B r36 schema changes as documented on the MSATS website.¹⁹

¹⁹ See AEMO website http://aemo.com.au/Gas/IT-systems-and-change/Copy-of-aseXML_standards/aseXML-Schemas



5. MARKET TRIAL TEST EXECUTION APPROACH

5.1 Pre-requisites

New participants will have commenced registration²⁰ or accreditation²¹ activities in order to have their e-Hub and MSATS pre-production Participant ID and credentials issued.²²

5.2 Entry criteria

Entry criteria for the Market Trial are detailed below. The entry criteria relate to individual participants, and AEMO will coordinate and communication readiness between all paired participants to commence testing.

Participants are requested to submit the checklist in Appendix B to demonstrate readiness to commence testing.

- Pre-production environment available:
 - Stable and reliable
 - Adequate internal testing completed to be ready to commence Market Trial.
- Participant credentials issued (for new participants).
- Connectivity testing complete (for new participants and /or new B2B interface).
- Test preparation is complete:
 - POC Market Trial Test Plan reviewed and understood
 - POC Market Trial Workbook reviewed and understood
 - HP SaaS QC configured with all test information, reviewed and understood
 - Test data preparation is complete:
 - Test data sets selected and aligned with testing counterparties
 - HP SaaS QC updated
 - Test counterparties known and communication channels open.
- HP SaaS QC is accessible and useable.
- Appropriately skilled resource capability available to execute and support testing.

AEMO test lead will confirm the following:

- Market Trial Test Plan and Workbook is complete and delivered to the ITWG.
- HP SaaS QC is configured with all required test information, and is accessible and useable by testing participants.
- Testing participants have confirmed readiness (through the submission of completed entry criteria checklist – refer Appendix B).
- Any open defects at the commencement of Market Trial are understood and the impacted scenarios are identified and listed.

²⁰ 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>

²¹ 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>

²² 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>

5.3 Exit/Completion criteria

Exit criteria for the text execution phase include:

- Successful completion of all high-priority test scenarios.
- No outstanding severity 1 and 2 defects.
- Any open defects (severity 3 or 4) have agreed resolutions or work around in place.
- Final Test Summary Report produced by AEMO.

5.4 Test scenario and script execution

Test execution will be undertaken as follows:

- Tests scenarios and scripts will be stored in HP SaaS QC as per the defined test configuration.
- Execution of testing will be undertaken according to execution calendar made available as part of the preparation activities. Informal testing may occur between participants, however reporting of the testing will be based on the defined execution calendar.
- Test execution information will be updated in HP SaaS QC as it occurs. This will include test case progress, status, data used and defects identified.
- An audit trail of test execution is to be undertaken by participants. This includes capture of positive results to prove that a test met expected results as well as capture of negative results for defect resolution. Where applicable, this information will be maintained in HP SaaS QC.

In addition to updating the HP SaaS QC test case progress and status, participants will update the scenario status in HP SaaS QC as below, which will flow into the Status Traffic Light report which AEMO will circulate prior to the daily test meetings and will be reflective of a participants ability to successfully execute a test case and or scenario.

- Scenario Status:
 - Completed (green)
 - In progress (yellow)
 - Blocked (red)
 - Failed (red)
 - Not Started

5.5 Market Trial Test cycles

The Market Trial Testing is targeted to be executed over 3 cycles, with each cycle consisting of a defined set of scenarios:

- The objective of cycle 1 is to successfully execute all scenarios scheduled for execution during cycle 1 and defined in the Market Trial workbook.
- The objective of cycle 2 is to:
 - Re-run any scenario that failed during cycle 1 (if the associated/linked defect fixes are available)
 - Re-run any scenario that did not complete execution during cycle 1.
 - Execute all test scenarios scheduled for cycle 2 and defined in the Market Trial workbook.
- The objective of cycle 3 is to:
 - Re-run any failed or not completed scenario from the previous two cycles.



- Complete execution of all scenarios defined for cycle 3. Any scenarios that fail during this cycle will aim to be fixed and retested before the end of the cycle and defined in the Market Trial workbook.

5.6 Defect management

The overall defect management process is detailed in the Industry Testing Strategy document under Section 7 Defect Management. Open defects will be monitored and an assessment made on their effect to cycle 1 scenarios.

5.7 Test process

AEMO will initially schedule daily stand-up meetings for testing participants to discuss test execution progress and defect status. The frequency and length of meetings will be assessed during the test execution phase.

Testing is tracked at the scenario level and can be in one of four states

- Not started – no test cases for the scenario have been executed or attempted.
- In progress – one or more test cases associated to the scenarios have been started.
- Completed – all test cases associated to the scenario are in a state of passed or N/A.
- Blocked – test cases associated to the scenario are unable to be started or continued due to a known defect.
- Failed – a test case within the scenario has failed and resulted in a defect being raised.

If a scenario is considered N/A it will be removed from test lab and no longer reported on.

NMIs identified for use within a scenario will be stored in the Data field in the test set details TAB and any transaction ID associated to the scenario will be stored in the description field and in the test evidence for the relevant test case.

More detail on execution will be provided in the HP SaaS QC instructions sent to participants prior to test execution commencing.

Participants will be expected to update HP SaaS QC with their daily test results by the end of that day, or by 8:00 am (AEST) on the following morning. AEMO will generate the test execution and traffic light status report between 8:00 am and 9:30 am (AEST) and circulate prior to the stand-up meetings.

These meetings will be:

- Scheduled daily 10.00 am (AEST))
- Use the teleconference facilities provided by AEMO and will be chaired by AEMO
- Use a standard agenda:
 - Review planned against actual progress for test execution. Discuss exceptions against planned execution.
 - Review defect status – outstanding defects.
 - Confirm planned tests for the following days.

5.8 Test reporting

The progress of the Market Trial can be monitored on a continuous basis by all market participants using HP SaaS QC. A daily report will also be produced by AEMO to track the progress of test execution and defect resolution.

These daily reports will include test measurement during the Market Trial and will be based on but not limited to the following metrics:



- Test execution summary by participant:
 - Number of test scenarios executed versus the number planned
 - Number of passed, failed, blocked or deferred test scenarios versus test scenarios executed
 - Planned count versus actual count (with any exceptions)
 - Planned % versus actual % based on execution calendar
- Defect summary will be reported with a 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
 - Detailed list of defects with summary description
- Issues and risks

An overall Market Trial Test Completion Report will be written at the completion of the testing period and will be presented to the ITWG and the POC Readiness Working Group (RWG).

This report will include:

- An introduction highlighting the purpose of the report, the background to the testing and its scope.
- Testing outcomes highlighting a results summary, defects summary, outstanding defects, summary of other outstanding issues and agreed workarounds.
- Recommendations and conclusion.

AEMO will prepare the completion reports using data from HP SaaS QC and inputs provided by participants. Inputs provided by participants would include details on their defect fixes.

5.9 Test support

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

- **HP SaaS QC** for assistance with HP SaaS QC access or operation
- **Market Trial** for other queries.



APPENDIX A. REGISTRATION

The following information is to be submitted to POC@aemo.com.au

ORGANISATION NAME:

TEST CONTACTS:

Rep	Contact Name	Email	Phone Number
Primary			
Secondary			

PARTICIPANT DETAILS:

#	Participant role (LNSP, MDP, MC, etc.)	Participant ID/s	Jurisdiction/s	Registration status (existing, in progress, planned)	Targeted commencement date (from 21 August 2017)	Planned B2B interface (FTP, API push/push, API push/pull or MSATS Browser)
1	<i>Retailer X</i>	<i>RetX1, RetX2</i>	<i>NSW,QLD</i>	<i>Existing</i>	<i>21 Aug 2017</i>	<i>FTP</i>
2	<i>ENM X</i>	<i>TBA</i>	<i>NSW,QLD</i>	<i>In Progress</i>	<i>1 Sep 2017</i>	<i>API – push/push</i>
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.



APPENDIX B. ENTRY CRITERIA

The following information is to be submitted to POC@aemo.com.au

DATE:

ORGANISATION NAME:

TEST LEAD:

PARTICIPANT DETAILS: <please note which participant roles and IDs this entry criteria submission applies to>

ENTRY CRITERIA:

#	Entry Criteria	Achieved (Yes/No)	Comments
1	Pre-production environment available – stable and reliable, adequate internal testing completed to be ready for Market Trial, test version of actual system		
2	B2B interface connectivity confirmed		
3	HP SaaS QC accessible		
4	Test planning completed and understood – Test execution processes, schedule, pairing participants, HP SaaS QC set-up, scenarios/ scripts and test data		
5	Appropriately skilled resource capability available to execute and support testing		