

P3151 Improving Security Frameworks Phase 1.0 – Final Invitation-Only Market Trial Test Plan



Improving Security Frameworks (ISF)

Final version





Important notice

Disclaimer

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Version control

Version	Release Date	Changes
0.1	26/08/2025	Initial Draft
1.0	25/09/2025	Final

Executive Summary

This document sets out the approach to developing the Invitation-Only Market Trial Test Plan for the Australian Energy Market Operator's (AEMO) Improving Security Frameworks (ISF) implementation project and defines how the ISF market trial will be executed. It follows the publication of the ISF Market Trial Test Strategy and Draft Market Trial Test Plan.

The first ISF implementation release (Release 1.0) delivers against a new AEMO obligation to enable (or schedule) system security services in the National Electricity Market (NEM) and is scheduled to go live on 2 December 2025. It provides for manually-initiated system enablement of system security services and focuses on delivering components of the solution that participants (Transmission Network Service Providers (TNSPs) and service providers) interface with, including:

- A new System Security Management (SSM) tool in the Markets Portal for managing security service availability and enablement instructions.
- Automated reporting functions, to fulfill new reporting obligations and support TNSP settlement of services under system security agreements.

The ISF market trial is invitation-only and is open to TNSPs and service providers who have commenced the required ISF contract approval process and have been invited by AEMO to participate. Other interested parties, particularly those planning to provide system security services but who have not yet commenced the relevant approval process, are invited to join dedicated daily Q&A meetings to follow the progress of the trial.

The ISF market trial will commence on Monday 27 October 2025 and end Tuesday 18 November 2025 in line with production go-live readiness. This includes a pilot test run from 30 October to 3 November. All other eligible participants may then commence participation from 3 November to 18 November.

The primary objectives of the market trial are to demonstrate the ability of service providers to update their system security service availability and receive system security enablement instructions using the new SSM tool within the Markets Portal. Whilst it is a prerequisite to have upgraded to Data Model 5.6 to participate in the ISF market trial, it is not the focus of this plan. Separate industry testing for the data model upgrade is available to participants from October 2025.

The following table lists the core functionalities to be tested during the market trial period.

Functionality	System	Primary User who will test
Management of system security service contracts	AEMO Internal	AEMO
Update and manage system strength service availability	SSM interface or API	Participant
Create, issue, cancel and amend enablement instructions	AEMO Internal	AEMO
Receive, view and bid in accordance with enablement instructions from AEMO	SSM interface or API	Participant
Verify receipt of ISF Reports	NEMWeb / Wholesale Data Interchange / Participant Data Model / Markets Portal	Participant and AEMO
Changes to settlements/billing tables for AEMO-procured security services	AEMO Internal	AEMO



Market trial testing will take place in AEMO's preproduction environment and will utilise Practitest as the test management tool. The test scenarios will be created in Practitest by AEMO and will be used by participants to record test progress and raise any defects. Practitest training will be provided to eligible participants before market trial commences.

AEMO will run daily Market Trial Q&A/Test Progress updates. This frequency may be adjusted depending on the number of participants, test progress and open issues.

The market trial is planned to end on the 18th of November or earlier when all test cases have been completed.



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1 Introduction

This section provides background information on AEMO's Improving Security Frameworks (ISF) implementation project, and sets out the purpose, scope and approach to the development of the **Invitation-Only Market Trial Plan** (the 'Plan') for ISF Release 1.0.

An Invitation-Only Market Trial involves coordinated testing of business process scenarios with invited participants who have ISF system security contracts in-progress and systems ready for testing.

There are two distinct components of the ISF initiative:

- The core ISF functionality, which enables service providers to manage their system security service availability and receive system security enablement instructions from AEMO
- Data Model 5.6 changes, which introduces new reporting functionality for ISF.

Note: This document will focus on the ISF invitation-only market trial only. There is a separate industry test specific to the Data Model 5.6 update. In addition to updates for ISF, Data Model 5.6 includes updates for Short Term Projected Assessment of System Adequacy (ST PASA) Recall Period, operational forecasting and Frequency Performance Payments initiatives. Please visit [AEMO | NEM Reform Industry Testing Working Group](#) (under Environment Updates in the August 2025 presentation) for more information.

1.1 ISF Release Plan

On 28 March 2024, the Australian Energy Market Commission (AEMC) made a final determination and preferable final rule to improve arrangements for system security services.

The final ISF rule builds on existing tools and frameworks within the power system to enhance system security procurement frameworks. It addresses system security challenges during the transition by reducing reliance on directions and providing better incentives for participants to invest in providing system security in the longer-term. It also increases transparency on system security needs and how AEMO plans to manage system security as we transition to a secure net-zero emissions power system.

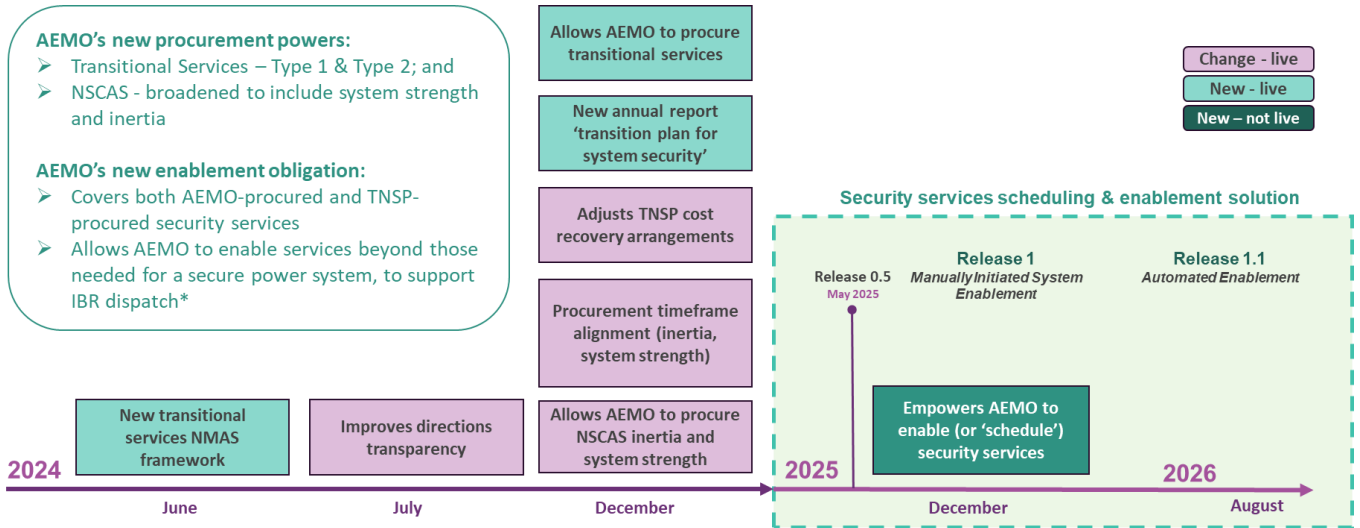
While the ISF Rule includes a range of elements, the ISF market trial is focused on the security services scheduling and enablement functions outlined in the green box in Figure 1 below.

As described in the Transition Approach, this functionality is being delivered over two releases.

- Release 1.0 (2 December 2025) focuses on delivering functionality that participants (TNSPs and Providers) interface with, in addition to automated reporting, and relies on a manual enablement process for system security services. This release includes the functionality being tested in this market trial
- Release 1.1, scheduled for August 2026, delivers automated enablement functionality in addition to other enhancements.

Figure 1 below provides a summary of the key elements of the ISF Rule Change showing the timeline for ISF releases.

Figure 1 Summary of key elements of the ISF Rule change



Note: Release 0.5 was deployed in production in May 2025 to implement internal AEMO changes to support settlement of AEMO-procured non-market ancillary service contracts.

Table 1 summarises the changes relating to Release 1 requiring system changes.

Table 1 Changes introduced by the ISF rule that require system change

Production Implementation Date	Change	Description
02 Dec 2025 (Release 1.0)	Commencement of full system security enablement obligations (operational)	<ul style="list-style-type: none"> System security enablement framework that applies to system strength, inertia, Network Support and Control Ancillary Services (NCSAS) and transitional services New system security management and scheduling applications New daily and annual reporting obligations

The ISF implementation program covers the procedural, IT system and market readiness arrangements needed to implement the ISF rule change including:

- Procedures – defines and implements the required changes to market procedures
- Systems – designs, develops, tests, and implements changes to AEMO's market systems
- Readiness – coordinates, assists and prepares AEMO and participants for the ISF rule change.

1.2 Purpose of the ISF Invitation Only Market Trial Plan

The purpose of the Plan is to set out the details for coordinating, managing, monitoring, and reporting on AEMO's and NEM participants' testing and trial activities and results. This plan is intended to provide the next level of detail following the market trial strategy.

This plan will cover the following topics:

- Eligibility to join the ISF market trial
- Scope of testing
- Market trial period
- Test execution details
- Test environment

1.3 Related documents

The table below sets out the documents or web pages that are relevant to the market trial plan and should be read in conjunction with this document.

Table 2 Reference Documents and Websites

#	Document name
1	AEMC Final rule determination
2	AEMO High Level Implementation Assessment
3	AEMO Final Security Enablement Procedure
4	AEMO ISF Project Website
5	ISF Transition Approach
6	ISF Market Trial Strategy
7	EMMS Tech Spec & Data Model 5.6 Tech Spec

1.4 Audience

The Plan is primarily intended for NEM participants (TNSPs and service providers) eligible to join the ISF market trial, including their:

- Test Managers
- Test Leads
- Test Analysts (System Integration, UAT, Market Trial)
- Project Managers
- Developers and Business and Functional Subject Matter Experts (SMEs).



Secondary audiences within these businesses including:

- Development Managers
- IT Operations Teams
- Change Controllers
- Operations Teams

1.5 Key milestones

The table below outlines the high-level milestones associated with the consultation process and development of the Plan. The ISF market trial strategy and test plan have been developed in consultation with the Industry Testing Working Group (ITWG).

Table 3 Key milestones

Milestone	Date
First draft of Market Trial Test Plan published and circulated to ITWG for review and comment	26 August 2025
ITWG – August	28 August 2025
ITWG Feedback on first draft due	9 September 2025
Final Market Trial Test Plan published	25 September 2025
ITWG – September	25 September 2025
Market Trial Commencement	27 October 2025
Pilot test phase	30 October
ITWG – October	30 October 2025
All participant test phase	3 November
Market Trial Go-Live Checkpoint	18 November 2025
Market Trial Ends	18 November 2025

2 Objective

The objective of the Invitation-Only Market Trial is to test new functionality introduced through the ISF implementation provide and demonstrate preparedness of service providers to operate with AEMO systems.

For Release 1.0, the primary objectives are for eligible participants to:

- Demonstrate ability to update and manage security service availability to provide contracted system security services (via SSM interface or API)
- Demonstrate ability to receive and respond to enablement instructions from AEMO (via SSM interface or API)
- Confirm service provider and TNSP access to new ISF reports, both public and private
- Verify ISF settlement reports generated by the system for AEMO-procured system security contracts (where applicable).

3 Eligibility to Join

This market trial is “invite only” and is open to TNSPs and service providers who have commenced the required ISF contract approval process for their system security service agreements and have been invited by AEMO to participate.

3.1 Contract Approval Process

The contracts approval process is set out in the ISF Transition Approach¹ and includes the following high-level steps:

1. Contract Approval Form submitted to AEMO by TNSP
2. AEMO Contract Approval and Technical Assessment
3. Demonstration of System Preparedness (undertaken as part of this market trial for those participating, and subsequently via established processes in pre-production)
4. Service Registration and Approval to Commence Enablement.

TNSPs must have at least submitted a valid Contract Approval Form to AEMO in relation to a system security service agreement entered into with a service provider and received an invitation from AEMO to participate.

¹ https://www.aemo.com.au/-/media/files/initiatives/improving-security-frameworks-for-the-energy-transition/isf-final-transition-approach.pdf?rev=83b29ac9f14245c9914b11115d5e412c&sc_lang=en



Interested parties, particularly those who are planning to provide system security services but have not yet commenced the contract approval process, may join the Q&A meetings and receive progress updates, but will not be able to participate directly in the market trial.

Please reach out to NEMReform mailbox (nemreform@aemo.com.au) for more information and to request participation.

3.2 Prerequisite activities

In preparation for the ISF market trial, it is essential that all invited participants plan for completing the prerequisite activities. Eligible participants will be asked to meet the following criteria prior to commencing participation:

- Test data preparation – consider preparing availability data to be used for testing
- Allocate appropriately skilled resource available to execute and support testing
- Upgrade to Data Model 5.6 – ISF market trial participation requires that participants prepare their systems to be on Data Model 5.6
- Test Management Tool Access – AEMO uses Practitest for Market Trials. Invited participants need to ensure they can access AEMO’s Practitest from their systems.
- Test Management Tool Training – AEMO will provide Practitest training in advance of the Market Trial.

The table below provides an indication of timeframes for the required prerequisite activities as relevant.

Table 4 Timeline for completion of prerequisite activities

Prerequisite Activity	Due Date
Participants have commenced the contract approval process with AEMO and have submitted a valid contract approval form	3 October 2025
Practitest training and set-up (AEMO and Participants) Approach may vary depending on the number of participants	September to October 2025
Practitest access provided to invitation-only market trial participants	On completion of Practitest training
Practitest test cases available for invitation-only market trial participants	On completion of Practitest training

4 Market Trial Test Schedule

The Invitation-Only Market Trial test period consists of the following activities to run from Monday 27 October 2025 to Tuesday 18 November 2025 in line with production go-live readiness.

The Market trial will be delivered in two stages:

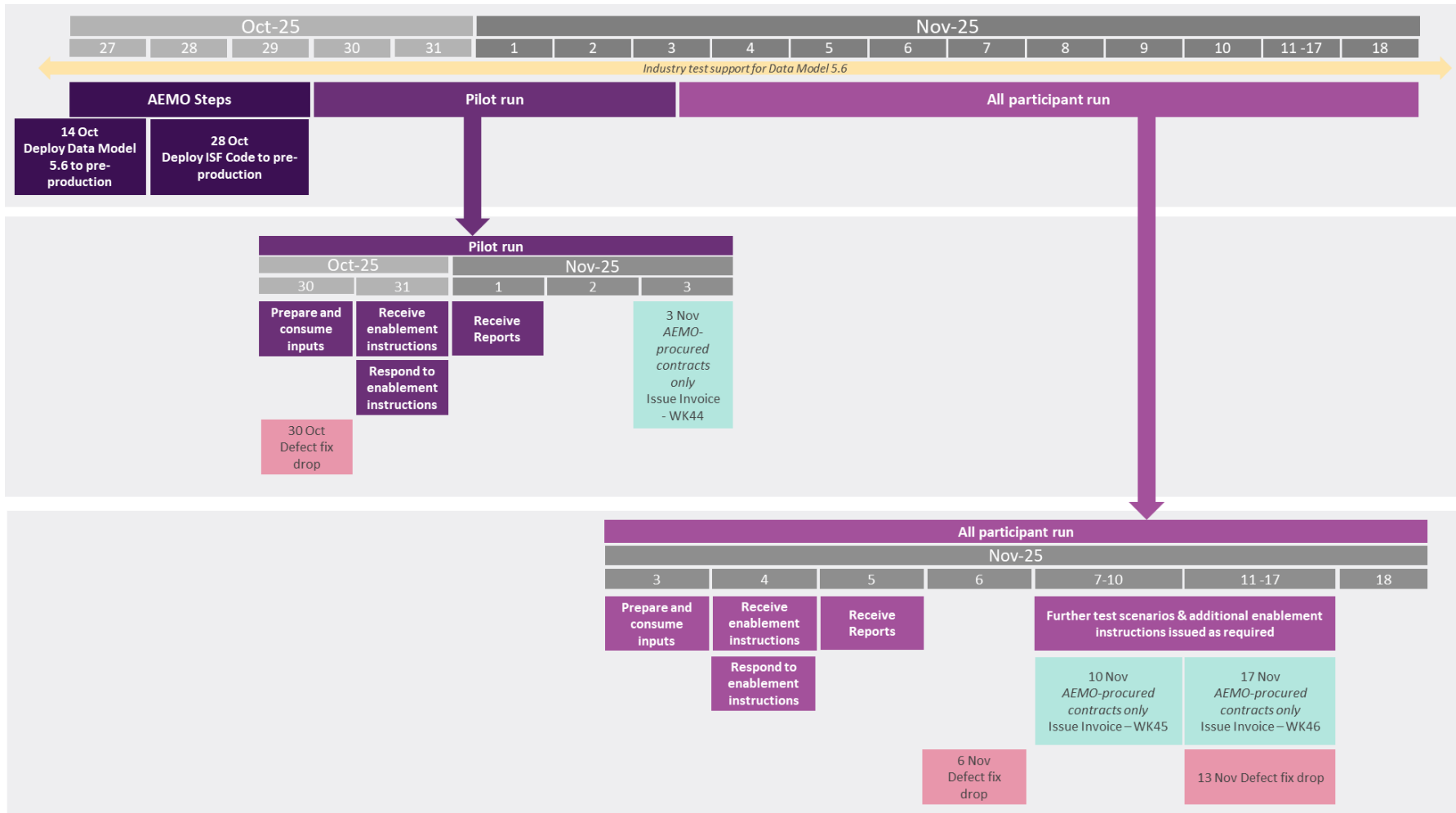
- The Pilot will commence on 30 October 2025. The objective of the Pilot will be to prove the deployment of the ISF changes and functionality into Pre-production and will be open to a nominated participant. The Pilot will exercise all ISF functionality.
- Remaining Participants can join the trial from 3 November until 18 November.

Pre-production will be available beyond 18 November 2025 for Participants to conduct further testing if required.

Figure 2 below provides a high-level overview of the test schedule, which comprises the following:

- AEMO steps, including data model and ISF code deployment.
- Activities for both the 'Pilot' and 'All Participants' phases:
 1. **Prepare and consume inputs**, wherein service providers demonstrate ability to input and manage their security service availability using the SSM tool or API.
 2. **Receive enablement instructions** issued by AEMO, via the SSM tool or API.
 3. **Respond to enablement instructions**, demonstrated via participants re-bidding in response to enablement instructions.
 4. **Receive reports**, including confirmation of receipt of daily public and private ISF reports and a weekly ISF report. Daily reports include the following (see Data Model 5.6 Tech Spec for further detail):
 - Final day + 1 report
 - Enablement periods day + 1 report
 - Enablement costs day + 1 report
 - Scheduled availability report
 - Scheduled availability change report.
- Defect fix drops on 30 October, 6 November and 30 November.
- Settlement statements containing mock data for AEMO-procured contracts only for weeks 45, 46 and 47.

Figure 2 Test schedule



Note: The pre-production Wholesale environment will not be refreshed from production for this Market Trial. The ITWG group will be notified if there are any changes to the refresh approach for the pre-production environment

5 Scope of Testing

The scope of this plan was agreed during the development of the Market Trial Strategy and feedback was discussed in the ITWG. Each participant is responsible for their own preparedness to join the market trial.

The ISF market trial test period consists of the following activities to run from Monday 27 October 2025 to Tuesday 18 November 2025 in line with production go-live readiness. The following table summarises the high-level functionalities introduced by ISF release 1.0 that will be tested:

Table 5 Summary of functionality to be tested in the ISF market trial.

Functionality	System	Primary User who will test
Management of system security service contracts	AEMO Internal	AEMO
Update and manage system strength service availability	SSM interface or API	Participant
Create, issue, cancel and amend enablement instructions	AEMO Internal	AEMO
Receive, view and bid in accordance with enablement instructions from AEMO	SSM interface or API	Participant
Verify receipt of ISF Reports (both private to TNSP/Provider and public reports)	NEMWeb / Wholesale Data Interchange Participant Data Model / Markets Portal	Participant and AEMO
Changes to settlements/billing tables for AEMO-procured security services	AEMO Internal	AEMO

The following table lists the planned high level test scenarios that will be covered during market trial testing.

Table 6 Planned Test Scenarios

Description
<ol style="list-style-type: none"> 1. Verify participants are able to access, view and submit availability and other operational information using the SSM interface or API, including: <ol style="list-style-type: none"> a. Participants can access SSM User Interface in the Markets Portal. b. Participants can view, submit and maintain their unit's security service availability and other operational information. c. Participants can receive and view their enablement instructions, as well as amendments and cancellations to those instructions (including testing erroneous inputs and other error scenarios). d. Participants can consume enablement instructions via the Participant Data Replication (PDR) tool or the API. 2. Verify AEMO is able to schedule, create, issue, amend or cancel security service enablement instructions, including testing to simulate security scheduling scenarios and participants are able to receive and interpret enablement instructions as per the Security Enablement Procedure. 3. Verify that participants are able to respond to an enablement instruction via a bid (does not include physical provision of security service). 4. Verify that TNSPs and service providers able to access private ISF reports to support contract settlement. 5. Verify visibility of daily enablement reports.

Description

6. Verify changes to settlements/billing tables for NSCAS and NMAS security services procured by AEMO.
7. Verify that TNSPs are able to enter outage details into Network Outage Scheduler (NOS) for always-on synchronous condensers (where relevant).

5.1.1 Invite-only Market Trial exclusions

- Testing and issues specific to the Data Model 5.6 upgrade: Upgrading to Data Model 5.6 is a prerequisite to join the invite-only market trial. This data model update is not specific to ISF. This test plan assumes that participant systems can upgrade.
- Participants' and TNSPs' development activities.
- Changes to participants' supporting business systems that do not directly interact with AEMO's market systems (i.e. back-end systems). These are addressed by participants' own test strategies.
- Any bilateral testing between participants and/or TNSPs. Participants can co-ordinate bilateral testing between themselves in parallel to the market trial.
- Downstream business procedures for each participant and TNSP.
- Testing of agreed non-critical business processes (unless otherwise agreed by the affected participants).
- Accreditation, as there is no accreditation for ISF December 2025 release.
- Physical test of each security service unit to be enabled after the ISF December 2025 release.
- Non-functional testing.
- Negative/error handling scenarios.
- Prerequisite activities, entry and exit criteria

6 Test Execution

Test execution will be undertaken as follows:

- Test Scenarios will be created in Practitest by AEMO. Test execution set will be set up for all participants to facilitate easy identification of whom is accountable for each step within the scenario being tested. See Table above for a list of planned test scenarios
- Execution of the testing will be undertaken according to execution schedule made available as part of the preparation activities
- Informal testing may occur between participants, however reporting of the market testing will be based on the defined execution schedule
- Test execution information will be updated in Practitest as it occurs, i.e. as close to real time as possible. This will include test progress, status and data used
- Proof of test results should be recorded by participants. This includes capture/screenshots of positive results to prove that a test met expected results as well as capture of negative results for defect resolution.

Example:

- Participants can use Market Portal screenshots as evidence of their test results (Multiple screenshots can be pasted in a Word document as required). This information should be uploaded to Practitest.
- Where this is not applicable, e.g. particularly large files, participants should store the required information accordingly, so it can be referenced as positive proof of testing. Sensitive participant information can be excluded from capturing evidence in Practitest.

6.1 Data management

Pre-production Wholesale environment will not be refreshed from production for this Market Trial. The ITWG group will be notified if there are any changes to the refresh approach for the pre-production environment.

6.2 Communication and support

Test support for market trial period will be provided from Mon 27 October 2025 and end Tuesday 18 November 2025 between 09:00 and 17:00 Hrs (AEST) on business days.

This will be done via

- ITWG
- Q&A forums
- Ad-hoc Teams chat or calls
- And via NEM Reform mailbox NEMReform@aemo.com.au

6.2.1 Q&A and Test Progress meetings

AEMO will establish a daily Q&A / Test Progress meeting at the beginning of each test day.

Note: The frequency of these meetings may be varied depending on number of participants, test requirements and progress.

Invitation to these meetings will be sent to the list of contacts provided by each organisation participating in the Market Trial. Other Participants wishing to attend the Q&A sessions can request an invitation by emailing NEMReform@aemo.com.au.

Each Q&A/Test Progress call will follow a core agenda:

- Review of open defects
- Review planned against actual progress for test execution. Discuss exceptions against planned execution.
- Confirmation of readiness to commence scheduled tests

Participants will be asked to update Practitest prior to the meeting.

6.2.2 Market trial report

AEMO will produce a daily Market Trial Report which will provide an update on the status of each test and report against the test metrics. The Market Trial Report will be circulated during the daily Q&A meetings.

As set out in the Strategy, the test metrics are:

- Number of test scenarios executed versus the number planned
- Number of passed test scenarios versus test scenarios executed
- Number of failed test scenarios versus test scenarios executed
- Number of test scenarios blocked versus test scenarios planned
- Number of test scenarios deferred/not applicable versus number planned
- Outstanding defects including the impact and agreed date of resolution
- These test metrics will be used to determine the overall traffic light status for Market Trial.

6.2.3 Support contact details

Participants requiring technical support should first raise issues within the Q&A meetings for market trial or an email to NEMReform mailbox.

From the Q&A, participants may be directed to log a ticket within AEMO's Support Hub (usually for any environment issues, but support requirements to be validated first in the Q&A forum)

6.2.4 Communication tool

AEMO will use the NEMReform mailbox to communicate with those participants registered for the Market Trial. These communications will include, but are not limited to, planned outages, status reports, meeting invitations. AEMO will CC the ITWG on all communications.



6.3 Defect management

The Market Trial is an opportunity for defects to be identified and closed prior to ISF rule Commencement. Market testing defect management will be a collaborative effort, principally involving AEMO's and participants' testing teams, development teams and business analysis teams. There will, at times, be a need to consult other projects' team members for advice and assistance on the resolution of defects. Defect management will be managed entirely within Practitest.

The objective of defect management is to resolve all defects within the project lifecycle. However, this objective must be balanced against other project objectives, such as achieving the schedule and the system impact and priority of the defect (discussed below). The acceptable level of defects within each stage of testing is typically defined as part of the 'exit criteria' for that stage.

AEMO will manage and report on all defects identified during test execution. Where it is determined that it is not an AEMO defect, AEMO will coordinate with market participants to obtain the status of the defect.

6.3.1 Raising defects

A template will be provided to assist participants with the creation of defects.

Defects raised during the invitation-only market trial or industry test will be captured in Practitest, with the following information:

- Description of defect
- The test scenario and/or test script associated with the defect
- Who detected it and the date it was detected
- Defect owner (entered after gaining agreement between testing counterparties as to who owns the defect)
- Target fix date (entered by defect owner)
- Severity (see definitions below)
- Priority (see definitions below)
- Status
- Defect root cause (entered by defect owner).
- Defect assigned to (nominated AEMO representative confirmed before commencement of market trials).

For ISF implementation, the term "defect" is used broadly to include defects that would ordinarily fall outside of a narrow "IT" definition. For example:

- Information could be captured regarding lack of required support. This affects test execution from a timing perspective; and
- Testing may indicate that an automated business process needs manual intervention to work correctly and given constrained timings an automated fix cannot be developed and tested in time for go-live. Information such as this can feed into the deployment\cutover planning for go-live.

As a general principle, any information that occurs during market testing and assists with risk mitigation for the "go-live" solution may be captured.



Defect statuses and progress on defect fixes will be discussed in Q&As / Test Progress meetings.

6.3.2 Defect Severity and Priority

Defects will be classified according to severity and where there are multiple within a severity, they will be addressed based on priority by the participant test leads in consultation with other affected participants.

Severity is determined by assessing probability of system and the business impacts if defect is in production.

Priority will indicate the degree to which the defect affects both the system capability, testing execution and the overall project.

Tables below describes severity and priority classifications.

Table 7 Defect Severity Classification

Severity	Definition
1- Showstopper	Defect is considered critical to business operations and/or testing. Core business and project impact.
2-Major	Defect is considered high impact to the business operations and/or testing. However, core business processes are still able to be completed (possibly via workarounds, etc.) and some testing is still able to continue.
3-Moderate	Defect is considered moderate impact to the business operations and/or testing. Core business processes are unaffected, and workarounds available, with testing still able to continue.
4-Minor	Defect is considered low impact to the business operations and/or testing. Core business processes are unaffected, and testing is still able to continue.

Table 8 Defect Priority Classification

Priority	Definition
1- Blocker	Entire functionality is blocked, and no testing can be conducted. Fix/resolution turnaround time best endeavour effort in first 4 hours or provide update on impact.
2-Highest	Defect is considered high impact to testing, multiple tests are blocked/failed due to the defect and no workaround is available
3-High	Defect is considered high impact to testing one or more tests can be linked to the defect, but workaround is available, and testing is still able to continue.
4-Medium	Defect is considered moderate impact to testing with one or more tests can be linked to the defect, but workaround is available and none of these tests are currently a priority.
5-Low	Defect is considered low impact to testing, no tests are failed or blocked due to this defect.

Post triage and acceptance of a defect, a resolution date will be added and published in the daily status report for all identified defects.

6.3.3 Defect management status

Table 9 shows the valid defect management statuses to be selected in Practitest.

Table 9 Defect management status

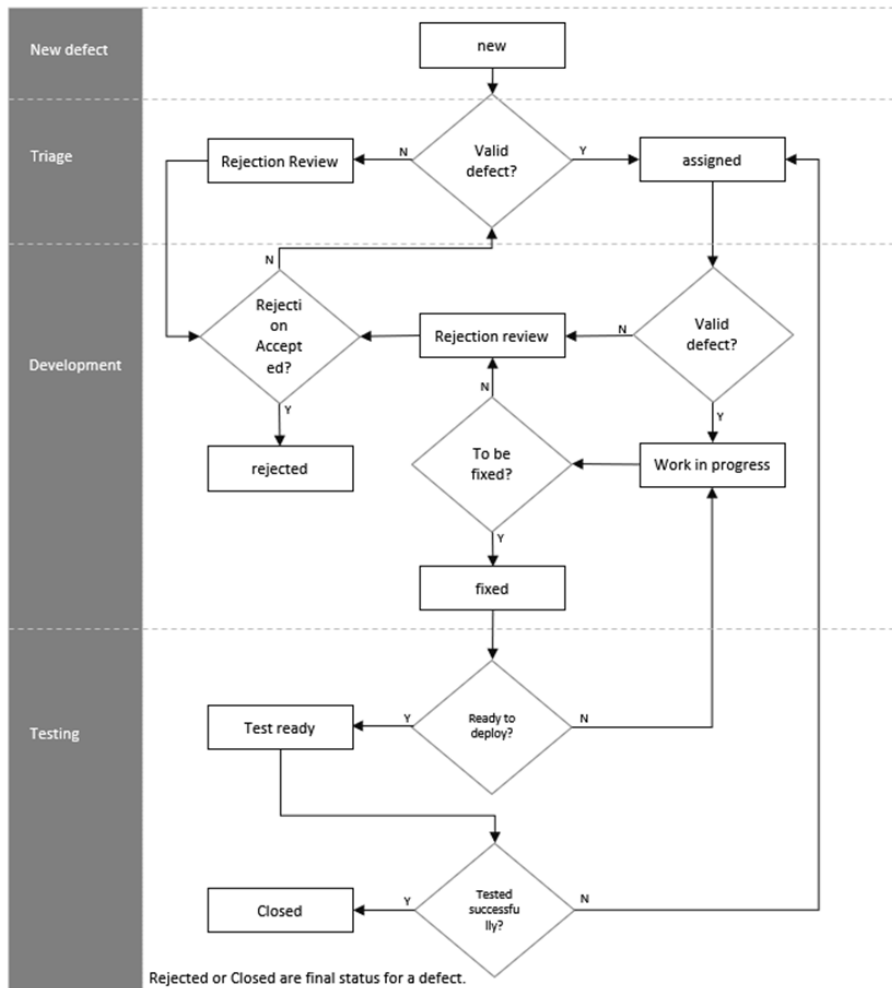
Status	Definition
New	Initial defect raised but will require a triage to determine if further analysis is required and whether it is a true defect as such to move to an assigned status.
Assigned	Defect will be assigned to the appropriate development team to be addressed further assessed and progressed.



Status	Definition
Work in Progress	Practitest item that is considered valid to be set to 'Work in Progress' to be fixed by development. This status means, a team is working on the Practitest item (analysis or fixing)
Rejection Review	After Triage or review by developer the defect is not considered valid the defect will be assigned to the status of 'Rejection Review' and assigned to the participant who raised the defect to accept rejection or update defect to allow it to be 'assigned'.
Rejected	Practitest item that is in a 'Rejection Review' status can be progressed to this state. If a participant accepts a defect is not valid, they can confirm the acceptance of the defect by changing the status to 'Rejected'.
Fixed	Once Practitest item has been fixed and unit tested by developer the status is set to 'fixed'. This indicates the release of the fix is ready for deployment to a test environment.
Test Ready	Once the fix is released to test environment successfully the status is set to 'Test Ready' and assigned to the participant who raised it.
Closed	If the participant (defect originator) is satisfied that the testing of the defect is successful they should update the defect

6.3.4 Defect Management Lifecycle

The diagram below shows the end-to-end lifecycle of a defect from new to closed





6.3.5 Defect Triage

Defect triage occurs during the Q&A and Test Progress meetings, all open defects will be discussed in this meeting. Test scenarios or scripts that are blocked with critical or high priority defects will be discussed in the meeting. The defect owner and the target fix time will be agreed for critical and high priority defects blocking test execution.

Participants and AEMO should review defects frequently on daily basis and update the target fix date/time in Practitest for everyone's reference.

6.3.6 Defect Escalation

If a critical/high priority defect can't be resolved within the agreed timeframes, it can be escalated in the same meeting. If required, AEMO will arrange a separate defect triage meeting to resolve a critical defect with the relevant participants.

7 Test Environment

AEMO's Pre-Production Market Portal will be used for this Invite-only Market Trial.

AEMO will:

- Ensure the Pre-production environment is available and all relevant ISF functionality is available for testing
- Setup access to market portal for registered invitation-only market trial participants
- Setup ISF contracts and parameters prior to the commencement of the invitation-only market trial

A1. Test management activities

Table 10 below shows the activities which will occur during market testing and who is responsible for them.

Table 10 Test Management Activities

Activities	Description	Timing	Responsibility
Prepare tests	Configure Practitest with test scenarios and test scripts.	Prior to the commencement of test phase execution	AEMO
Identify data	Identify data sets for each test scenario, enter in Practitest and confirm with testing partners.	Prior to the commencement of test phase execution	Participants, AEMO may assist if required
Execute tests	Individual testers to perform test execution and capture actual results of testing in Practitest.	Daily	Participants
Update progress	Progressively update the status of each script tested in Practitest.	Daily	Participants
Raising defects	Raising defects from failed scripts or any other root cause in Practitest.	Real time immediate as soon as the script has failed.	AEMO and Participants
Managing defects	Review defects logged in the Practitest to identify major defects and determine the impact of those defects.	Daily	AEMO and Impacted Participants
Retesting defects	Retesting defects once they are available to testers is a priority.	Defect retests are to be completed prior to commencing new scripts.	AEMO and Participants
Test phase entry	Complete entry criteria checklist	Prior to the commencement of test phase execution	AEMO and Participants
Test phase exit	Complete exit criteria check	At the completion of test phase execution	AEMO and Participants
Test status meetings	Test status meeting to be attended by test representatives from all participants to discuss progress, issues and defects.	Daily (or as detailed in the Test Plan)	AEMO and Participants

A2. Glossary

This document uses many terms that have meanings defined in the National Electricity Rules (NER). The NER meanings are adopted unless otherwise specified.

TERM	DEFINITION
AEMC	Australian Energy Market Commission
AEMO	Australian Energy Market Operator
API	Application Programming Interface
Cutover	Process and steps for implementing Market Systems capability. Includes once-off data updates conducted in association with system deployments.
DUID	Dispatchable unit identifier
EMMS	Energy Market Management System (formerly MMS)
Go-live	System and capability available in production environment, may take place prior to commencement dates.
Industry testing	Informal, uncoordinated testing by participants in AEMO's IT environments. Self-testing of functionality such as connectivity, and/or coordinated multi-party testing of functional scenarios.
Invitation industry testing	Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing
ISF	Improving security frameworks
ITWG	Industry testing working group
Market testing	Umbrella term covering industry testing, invitation industry testing and market trial
Market trial	Formal, industry coordinated test activities between participants' and AEMO's IT environments. Involves coordinated multi-party end-to-end testing of business process scenarios.
NEM	National Electricity Market
NOS	Network Outage Scheduler
Participant	The term 'participants' refers to all stakeholders involved in procuring, providing or other activities in the Improving Security Framework
SSM Tool	System Security Management Tool
TNSP	Transmission Network Service Providers
Transition	Process of shifting from current to future operating state