

# MSATS - Technical Specification - October 2025

1.00 February 2025

Pre-production: Tuesday 2 September 2025

Production: Sunday 26 October 2025

Rules effective: 26 October – 1 December

2025

Release series: MSATSMSR261025







# Important notice

### Purpose & audience

This document describes the technical changes required to participant's systems for the MSATS - Technocotober 2025 (Release). The Australian Energy Market Operator (AEMO) provides this information as a substance analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the Electricity Rules (Rules), as at the date of publication.

### How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- Text in this format is a link to related information. Some links require access to MarketNet.
- Text in this format, indicates a reference to a document on AEMO's website.
- Text in this format is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in the Glossary.
- Rules Terms have the meaning listed against them in the National Electricity Rules (Rules).

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### Distribution

Available to the public.

#### Document Identification

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#### Version History

1.00 Initial creation

#### Documents made obsolete

The release of this document changes only the version of MSATS - Technical Specification - October 2025.

### Support Hub







To contact AEMO's Support Hub use Contact Us on AEMO's website or for urgent matters phone. 1300 AEMO 00 (1600.



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# 1 Introduction

### 1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

The primary audience for this technical specification is B2B and B2M Retail Market Participants.

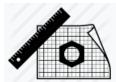
# 1.2 Objective

The MSATS - Technical Specification - October 2025 (Release) describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

### 1.3 Status

Version	Status
1.00	In progress. The design is not ready for participants' builds.

0.03



Initial draft for review. The design is not ready for participants' builds.

Presents the MSATS - Technical Specification - October 2025 evolving design. Please send feedback to **Contact Us**. In the Details of your enquiry section, mention the DCC Knowledge Management team as the Resolver group.

### 1.4 Release dates

Scheduled for implementation in:

Pre-production: Tuesday 2 September 2025

Production: Sunday 26 October 2025

# 1.5 Projects and enhancements

Changes and enhancements for this Release include:

Project	Description	Туре
MSR Package 1	Procedural and technical changes for the Retail market which includes:	Project
	- Accelerated LMRP	
	- Site Defects	
Embedded Network Settlement Anomalies	Restrict CATS Change Requests updating embedded network child NMI datastreams retrospectively	Project
ROLR reporting	Discontinue obsolete ROLR reports	Enhancement
	ROLR report delivery to the Participant File Server	
ICF_077	Last Consumer Change Date (LCCD) auto populated in MSATS based on NMI status	Enhancement
ICF_078	Update NEM address element definitions as a result of B2M Procedures aligning with AS4590.1:2017 standard	Enhancement
IEC - B004/22	Update B2B field lengths according to B2B Procedures aligning with AS4590.1:2017 standard	Enhancement
IEC - B002/22	Address inconsistencies field, field lengths and associated enumerations in the B2M and B2B procedures and schemas	Enhancement
MSR Package 2	Meter Exemption changes to support new metering testing and inspection requirements	Project

# 1.6 Forums and meetings

### 1.6.1 MSUG meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

It is open to all interested parties, with invitations sent to all Registered Participants If you have a technical question for a project and want to attend the MSUG, so you get an invite, ask your company's support team to include your email address in their **AEMO Help Desk Bulletin** (CRM).

### 1.6.2 NEM Reform program stakeholder engagement

Details about the NEM Reform Forums, Working Groups, and related AEMO forums: **NEM Reform Stakeholder Engagement**.

### 1.6.3 Electricity Retail Consultative Forum

The Electricity Retail Consultative Forum (ERCF) provides a platform for participants operating in the NEM to participate in the enhancement of the Retail Electricity Market Procedures Framework (except B2B Procedures).

# 1.7 Rule and procedure changes

The following rules and procedures take precedence over technical specifications and guides.

Title	Status	Effective
B2B Procedures v3.9 Consultation	First stage	n/a
B2B Procedure: Technical Delivery Specification v3.9	Draft	TBD
B2B Procedure: Service Order Process v3.9	Draft	TBD
B2B Procedure One Way Notification Process v3.9	Draft	TBD
B2B Procedure Meter Data Process v3.9	Draft	TBD
B2B Procedure Customer and Site Details Notification Process v3.9	Draft	TBD
MSATS Procedures - Principles and Obligations for All Connection Points v7	Draft	26 October 2025
MSATS Procedures - Principles and Obligations for All Connection Points v7.1	Draft	1 December 2025
Standing Data for MSATS v6.1	Draft	1 December 2025
National Electricity Amendment (Accelerating smart meter deployment) Rule 2024	Final	28 November 2024
Exemption Procedure Meter Installation Malfunctions v2.0	Amendment	1 December 2025
Metrology Procedure Part C v1.0	Draft	1 December 2025
National Electricity Amendment (Unlocking CER benefits through flexible trading) Rule 2024	Final	15 August 2024

# 1.8 Related technical specifications

### None

# 1.9 Related software

Software	Change	Available
B2B Validation Module	See B2B Validation Module	Pre-production: Tuesday 2 September 2025
MSATS Participant Batcher	New version updated for aseXML schema r46	Production: Sunday 26 October 2025

# 1.10 Related documents

Once published, these resources take precedence over this technical specification.

These guides and resources are updated according to this technical specification and published for the pre-production Release Date.

Title	Description	Status
B2B Mapping to aseXML	Describes the mapping between the MSATS B2B procedures and the B2B aseXML schema	Not started
B2M Mapping to aseXML	Describes the mapping between the MSATS B2M procedures and the B2M aseXML schema	Not started
Guide to MSATS B2B	Information about the B2B e-Hub functions available in the Market Settlement and Transfer System (MSATS)	Not started
Guide to MSATS Reports	Information about MSATS C1, C4, C7, and Snapshot reports	Not started
Guide to MSATS Web Portal	Information about the B2M functions available in the Market Settlement and Transfer System (MSATS) web portal	Not started
API portal	Blind Update API and Meter Exemptions API changes	Not started
Guide to Metering Exemptions	Information about submitting and managing metering exemptions in the MSATS web portal	Not started

# 1.11 Approval to change

Access to the Markets Portal Help requires a MarketNet connection. Please speak with your company's Participant Administrator if you require access.

AEMO is seeking Participant feedback from the Electricity Retail Consultative Forum (ERCF), B2B Working Group, and interested parties.

### 1.12 Market systems user group meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

MSUG meetings are open to all interested parties, with invitations sent to all included on the distribution list. If you have a technical question for a project and want to attend the MSUG ask your company's support team to include your email address in their **AEMO Help Desk Bulletin** (**CRM**) distribution list.

### 1.13 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review these changes, detailed below.

# 1.14 Changes in this version

- Adds changes to meter exemptions.
- Adds information about CR notifications when populating the LCCD field.
- Correction to current B2M version.
- Adds FAQs.

# 2 Proposed Timeline

Milestone	Date	Description	
Approval required	n/a	For details, see Approval to change	
Revised Technical Specification	January 2025	AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth	
		From the production release, the technical specification becomes final and the <b>related documents</b> become the source of truth	
		Technical Specification Portal	
Related Documents publication	Tuesday 2 September 2025	Release of guides and resources mentioned in Related documents	
MSUG meeting	Thursday 6 February 2025	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions	
		This date is tentative. The Knowledge Management Team provides the invitation prior to the meeting	
Pre-production refresh	24 - 28 February 2025	Refresh of the EMMS pre-production system with data refreshed from the production system. An outage of up to five days can occur to the pre-production environment during this period. Participant access is not restricted, however, AEMO do not guarantee the pre-production data content or system availability. During the refresh, access to other AEMO systems such as AWEFS, EMMS, OPDMS, and STTM may be intermittently affected	
Pre-production implementation	Tuesday 2 September 2025	AEMO implements components of the Release to pre- production for participant testing	
		AEMO has full access to the system during this period	
		Participant access is not restricted; however, the data content or system availability is not guaranteed	
Pre-production available	Tuesday 9 September 2025	Testing period begins for participants	
Participant Testing	9 September 2025 - 28 November 2025	Unstructured participant testing in the pre-production environment	
Production implementation	Sunday 26 October 2025	AEMO implements the release to production	

# Proposed Timeline

Milestone	Date	Description
Production systems available	Sunday 26 October 2025	Production systems available to participants

# 3 Participant Impact

To comply with this Release, participants must:

- Decide if you need to implement B2B schema transforms. For help, see B2B Browser in Markets Portal Help.
- 2. Schedule staff and resources to upgrade your B2B and B2M aseXML schemas to r46 For help, see **Guide to Transition of aseXML**.
- 3. Download and install upgraded software versions. For help, see Related software.

### 3.1 aseXML r46

If you are not ready to transition your B2M aseXML schema with AEMO:

- 1. Change your schema preference to Current before the Release Dates.
- 2. When AEMO transitions, we move you to the Superseded preference.
- 3. When ready, complete your upgrade and observe the processing is correct. You may still receive some older aseXML versions for a short time during the transition period, around 24 hours.
- 4. Change your schema preference to Current.

For help transitioning, see Transition of aseXML.

#### 3.1.1 aseXML B2B schema r46

Current B2B aseXML schema	Superseded B2B aseXML schema
r46	r43

### 3.1.2 B2B schema transforms

Receiving version	Transforms
r46	r43 to r46

The changes in r45 aseXML schema only applies to gas IT systems.

r46 aseXML schema includes changes supporting the MSATS and B2B Procedures.

Receiving version	Transforms
r43	r46 to r43

For details, see **B2B** aseXML schema.

#### 3.1.3 aseXML B2M schema r46

Latest	Current	Superseded
r46	r46	r44

For details, see **B2M aseXML schema**.

### 3.1.4 B2M aseXML schema preference lower than r46

For participants having a B2M aseXML schema preference lower than r46, the new aseXML items are removed from Message Responses with a comment flagging the removal in the transformed aseXML payload.

#### 3.1.5 B2M aseXML schema transition

For details, see **B2M schema release implementation**.

### 3.1.6 aseXML schema change impact summary

For details, see:

- B2B aseXML schema
- B2M aseXML schema
- aseXML Draft Files and Changes

# 3.2 B2B impact

Item	Project or enhancement	Changes
B2B aseXML schema	IEC enhancements Site Defects LMRP	New version
	Shared Fusing Meter Replacement (One In All In)	

Item	Project or enhancement	Changes
B2B Validation Module	Site defects  LMRP  IEC enhancements  Shared Fusing Meter  Replacement (One In All In)	New permitted values for B2B transactions
B2B Browser	Site Defects  LMRP  IEC enhancements  Shared Fusing Meter  Replacement (One In All In)	Updates to Create Transaction interfaces
B2B transactions	Site Defects LRMP IEC enhancements	New: Service Order Request sub types for Metering Service Works and Supply Service Works. Updates: - Enumerated values for One Way Notification subtype Meter Faults and Issues Notification and Service Order Response - Field length for Service Order and Customer and Site Detail Notification fields, HazardDescription, FormNumber, and FormReference

# 3.3 B2M impact

Item	Project or enhancement	Change
aseXML B2M schema	ERCF and IEC enhancements	New version
	LMRP	
	Site Defects	

Item	Project or enhancement	Change
CATS NMI	LMRP	New CATS_NMI_DATA attributes:
Standing Data	Site Defects	<ul> <li>LMRP</li> <li>Defect Flag</li> <li>Deflect type</li> <li>Originating MC</li> <li>BuildingorPropertyName2</li> </ul> Changes to address elements to align with AS4590.1:2017
Blind Update Tool (BUT)	LMRP	LMRP field to support initial population between 26 October 2025 to 27 November 2025 as per rule change
Change requests	LMRP	New and updated CRs and notifications
and notifications	Site Defects	
	Embedded Network Settlement Anomalies	
	ICF 077 and 078	
CATS reports	LMRP Site Defects	Changes to CATS Reports (C1, C4, C7, C29) and MSATS Snapshot Report. It includes five new attributes:
		<ul> <li>LMRP</li> <li>Defect Flag</li> <li>Deflect type</li> <li>Originating MC</li> <li>BuildingorPropertyName2</li> </ul> Changes to address elements to align with AS4590.1:2017
Last Consumer Change Date (LCCD)	ICF077	AEMO auto-populates the LCCD field in the NMI create process, i.e. populate the NMI's LCCD with the activation date for NMIs moving from a greenfield status to active status

# 3.4 AEMO MSATS configurable code fields

AEMO uses the CND\_[nn] framework to map field names in the CATS\_NMI\_DATA table to the C1 CATS Transaction Field Validations report. Where possible, participants should use the procedural field names defined in Standing Data for MSATS.

Existing cats\_nmi\_data CND\_nn fields are assigned to the following field names:

- Legacy Meter Replacement Plan = CND\_14
- Defect flag = CND\_15

- Defect Type = CND\_16
- Originating MC = CND\_17
- Building or Property Name 2 = CND\_18

AEMO is increasing the CND\_[nn] framework to cater for new fields in the future.

AEMO recommends participants do not hard code the AEMO MSATS configurable fields.

# 3.5 ROLR reports

### Changes include:

- Discontinuing obsolete reports from 1 December 2025, as described in the ROLR Procedures.
- ROLR reports added to the CATS transaction group for delivery to the Participant File Outbox by API or FTP.

# 4 Enhancements

# 4.1 High-level changes

Function	Enhancement	Description	Impacted	MSATS functionality
MSATS standing data	LMRP Site Defects Building or Property Name 2	New CATS NMI standing data attributes	Entitled participant roles	NMI Standing Data
B2B transactions	LMRP Site defects IEC enhancements Shared Fuse Meter Replacement (One In All In)	<ul> <li>Changes to:</li> <li>Metering     Service Works</li> <li>Meter Fault     and Issue     Notification</li> <li>Service Order     Request with     new subtypes</li> </ul>	Initiating Participant roles and receiving roles	B2B
Blind Update Tool (BUT)	LMRP	New LMRP attribute	LNSP	B2M
B2B Browser	LMRP IEC enhancements Shared Fuse Meter Replacement (One In All In)	Create new transaction	Initiating Participant roles and receiving roles	B2B
CATS reports	LMRP Site defects ERCF enhancements	Updated MSATS C1, C4, C7, Snapshot reports	LNSP MC FRMP	B2M
SDQ queries	LMRP Site defects	New RM29 SDQ queries	MC	B2M

Function	Enhancement	Description	Impacted	MSATS functionality
(CR) and notifications	(CR) and Site defects	Update CR 5050/5051 to support updates to LMRP value	Entitled Participant roles and initiating Participant roles	B2M
		New CR 5300/5301 for maintaining Site Defect attributes		
		Update to CR 4050/4051 to exclude EN Child NMI datastreams		
		New CR 4060 to update EN Child NMI datastreams		
MSATS Web Portal	LMRP	Includes new LMRP and site defect attributes Changes to address elements	Entitled Participant roles and initiating Participant roles	B2M
Portai	Site defects			
	ROLR reports ERCF			
	enhancements	to align with AS4590.1:2017		
		Changes to:		
		<ul> <li>Create New Transaction interface</li> <li>NMI Master interface</li> <li>NMI Master Summary interface</li> </ul>		

Function	Enhancement	Description	Impacted	MSATS functionality
B2B Browser	Site Defects  ERCF and IEC enhancements  Shared Fuse Meter Replacement (One In All In)	Changes to:  - Service Order Request, Metering Service Works transaction type - One Way Notification, Meter Fault and Issue Notification transaction type - B2B Service Order Response	Initiating Participant roles and receiving roles	B2B
		New B2B Service Order Request subtypes:  - Temporary Isolation- Scoping Request - Temporary Isolation-One In All In - Install Meter Isolation Device		
B2M schema	LMRP Site defects	New fields	Initiating Participant roles and receiving roles	B2M

Function	Enhancement	Description	Impacted	MSATS functionality
B2B schema	LMRP Site defects Shared Fusing Meter Replacement	Changes to:  - Electricity enumerations - Service Order Response - Service Order Request, Metering Service Works transaction type - One Way Notification, Meter Fault and Issue Notification transaction type  New B2B Service Order Request subtypes: - Temporary Isolation- Scoping Request - Temporary Isolation-One In All In - Install Meter Isolation Device	Initiating Participant roles and receiving roles	B2B
Common B2B and B2M schema	ICF-078 B002/22 B004/22	Address data enhancements for consistency and alignment to AS4590.1:2017 standard	Entitled Participant roles	B2B B2M – CATS
Blind Update Tool API	LMRP	New LMRP field		B2M

Function	Enhancement	Description	Impacted	MSATS functionality
Metering exemptions	Meter testing, inspections, and malfunctions	New exemption types and configuration data impacting the web interface and API	MC	B2M
		New exemption validation rules		

# 4.2 Legacy meter replacement plan (LMRP)

The LMRP describes replacing all existing type 5 and type 6 meters with type 4 (smart) meters by 30 December 2030 in Queensland, New South Wales, Australian Capital Territory, and South Australia.

To support this requirement, the LNSP in conjunction with applicable FRMP and MC is required to record and maintain the LMRP in MSATS.

### 4.3 Site defects

A final rule introduces an industry record keeping process. This is triggered when a technician identifies an NMI defect.

The MC is required to record a Defect Flag, Defect type, and Originating MC in MSATS. More details in an updated technical specification.

# 4.4 Shared fuse meter replacement

A final rule introduces a Shared Fusing Meter Replacement Procedure which defines a One In All In process for meter upgrades on a shared fuse. When the smart meter installation at an NMI requires the isolation of more than one customer at that NMI due to a shared network fusing arrangement, DNSPs, FRMPs, and MCs must coordinate efforts. This is required so that any legacy meters on the shared fuse are replaced at the same time.

For details of the One in All in process, see page 14 of the **B2B Procedures v3.9 Consultation.** 

For information about IT changes supporting share fusing meter replacement, see **High-level changes**.

### 4.5 Embedded network settlement anomalies

The AEMC's final rule determination Unlocking CER benefits through flexible trading, in agreement with AEMO that settlement anomalies with child NMIs can occur due to retrospective connections and disconnections.

### The changes are:

- Limiting the ability for NMI datastreams in embedded networks to be activated or deactivated retrospectively.
- Continue to allow for retrospectively creating new Child NMIs.
- Continue to allow for retrospectively exchanging meters.

# 4.6 ICF077 auto populate LCCD field for new NMIs

In accordance with the CATS Procedures, all current financially responsible Market Participants (FRMPs) are obligated to maintain the Last Consumer Change Date (LCCD) field within MSATS. AEMO introduced the LCCD field to better support the Consumer Data Right Rule (CDR Rule) and enables customers to access data which can span multiple retailers for the same NMI.

AEMO proposes to auto-populate the LCCD field to maintain the NMI completion process, where an NMI status is updated from Greenfield "G" to Active "A". This impacts FRMPs who maintain the LCCD field within MSATS.

### 4.7 ICF078 address data enhancements

This ICF aligns the address standard in B2M Procedures with the AS4590.1:2017 standard. It supersedes the current NEM addressing which is based on the AS4590-1999 standard.

This change request includes the following changes:

- AS4590.1:2017 increases character lengths in key address fields for capturing detailed address information and avoiding data truncation.
- Adhering to section 1.7.1 of the NER by updating the address data standards to AS4590.1:2017.

This enhancement provides more accurate and complete address data and consistent data standards between B2B and B2M.

# 4.8 IEC - B004/22 - align B2B field lengths to the Australian Standard

A parallel change to ICF078 to update address element definitions to AS4590.1:2017.

# 4.9 IEC - B002/22 - align B2B and B2M field elements

This change resolves inconsistencies in the field, field lengths and associated enumerations in the B2M and B2B procedures and schemas. This can impact key industry functions. For example, when a customer provides hazard details to the Retailer, the Retailer forwards this information to the applicable B2B participants.

# 4.10 ICF-079 NEM12 MDFF inconsistencies

Remove the inconsistency between clauses 4.4 and 4.5 of the Meter Data File Format Specification NEM12 & NEM13 (MDFF Specification) relating to the provision of 400 block data for actual reads.

### 4.11 Retailer of last resort reports

The AER initiates a Retailer of Last Resort (ROLR) event when a FRMP cannot support its financial obligations within the NEM. The ROLR reporting process is updated to improve the request and delivery of reports. The changes include:

- Discontinuing reports that are no longer required.
- Delivering ROLR reports to the Participant File Server outbox.

For details, see **ROLR Reports**.

# 4.12 Meter testing, inspections, and malfunctions

MCs can apply for a malfunction exemption for metering installations when they cannot repair the metering installation within the timeframes defined in clause 7.8.10(a) of the NER.

The Final Rule removes the requirement for DNSPs to test their existing type 5 and type 6 meters during the acceleration phase of smart meter deployment. Additionally, all existing exemptions are included into the LMRP. Consequently, malfunctions during the acceleration phase only applies for type 1, type 2, type 3 and type 4 metering installations, and type 5 and type 6 meters within Victorian or Tasmanian jurisdictional areas.

NER amendments and Exemption Procedure Meter Installation Malfunction define the expected timeframe to rectify a metering installation malfunction.

### The changes include:

- 4 new exemption types Whole Current Connected NMI, LV CT Connected NMI, HV connected NMI, Family Failure and associated nature values.
- Deactivating old exemption type and nature configuration for the malfunction category.
- MSATS Web Portal The meter exemptions interface new configuration field and checkbox for MCs to populate when raising and exemption.
- Automatic approval or rejection for some Whole Current Connected NMIs and Family Failure exemptions.
- Validation to restrict continual exemption for same NMI and exclusion of non-conforming participants from automated processing.

# 5 B2B

# 5.1 B2B aseXML schema

This schema release r46 affects B2B.

For help with schema transitions, see **Guide to Transition of aseXML**.

To obtain schemas, guidelines, whitepapers etc, see aseXML Standards.

# 5.1.1 Schema changes summary

Affected files	New	Modified
aseXML_r46	n/a	Included file versions:
		<ul> <li>Common</li> <li>Electricity</li> <li>Electricity Enumerations</li> <li>Transactions</li> <li>Service Order</li> <li>One Way Notification</li> </ul>
Common_r44	n/a	HazardDescription – Increase maximum length from 80 to 100 characters

Affected files	New	Modified
Electricity_r44	Additional enumerated values for SORDResponseCode to support MP-initiated Service Orders Responses for defects and One In All In to FRMPs:  - Appointment Required - Comms Refused - Coordination Failure - Defect - Demolished - Dog - Incorrect Service Order - Mismatch with Standing Data - Natural Event - No Access – Network Support Required - Not FRMP - No Adult Present - Obstruction - Shared Fuse - Scoping Required - Site Not Ready - Unable To Isolate - Unable To Locate Site  New enumerated values for ServiceOrderSubType: - Temporary Isolation - Scoping Request: For supporting FRMP-initiated Service Orders to the DNSP for a One In All In shared fusing scoping request - Temporary Isolation One In All In: For supporting FRMP-initiated Service Orders to the DNSP for a One In All In: For supporting FRMP-initiated Service Orders to the DNSP for a One In All In shared fuses scoping request	The following values are updated to support the alignment of NEM B2M and B2B fields:  - FormNumber – Increase maximum length from 15 to 20 characters  - FormReference – Reduce maximum length from 30 to 20 characters  -

Affected files	New	Modified
Electricity Enumerations	Enumerations for the LMRP and One In All In process:	n/a
	<ul><li>RegClassification</li><li>PurposeOfRequest</li><li>ExceptionCode</li></ul>	
	Adds Remediation Advised to the enumerated list for PurposeOfRequest element, to support FRMP initiating Metering Service Works Service Orders Requests for defects to MPs	
	Adds LMRP and One In All In to the enumerated list for ReasonForNotice element, to support DNSP initiated Meter Fault And Issue Notification One Way Notifications for shared fuse outages to an FRMP	

# 5.1.2 Impact summary

Below are the potentially impacted files, transactions, and versioned types for r46.

There is no impact to Derived types for the B2B aseXML schema release.

### Legend

- Modified types: All changed types.
- Derived types: Any types derived from a modified type, therefore modified by default.
- Versioned types affected: All versioned types needing the version attribute updated.
- Transactions potentially affected: All transactions containing a modified type, either directly or via a type substitution.
- Schema files affected: Schema files changed.

Affected schema file	Modified types	Affected version types	Potential affected transactions
aseXML	n/a	ClientInformation	
		Electricity	
		Enumerations	
ClientInformation	BuildingOrPropertyName		
	BuildingOrPropertyName2	AustralianStructuredAddressPartial	
	FlatOrUnitType	Components	
	StreetName		
	StreetType		
	LocationDescriptor		
Electricity	FormNumber	ServiceOrderRequest	
	FormReference		
	HazardDescription		
Electricity	PurposeOfRequest		OneWayNotification
Enumerations	ReasonForNotice		
Enumerations	FloorOrLevelType	FloorOrLevel	
		AustralianFloorOrLevelType	
Service Order	SORDResponseCode		ServiceOrderRequest
	ServiceOrderType		

# 5.2 B2B browser

The B2B Browser changes include:

- Updates to B2B transaction create, view, and edit interfaces to include enumerated values.
- New create, view, and edit interfaces to support Service Order transaction with new Sub Types.

### 5.3 B2B transactions

Enhancement	Transaction	Description
Site defects	Metering Service Works	<ul> <li>In the B2B Browser, an FRMP can set Purpose Of Request to Defect Resolved to notify the MP the customer has advised the defect is resolved</li> <li>Updates to B2B Validation Module and ElectricityEnumerations.xsd in B2M schema to include Defect Resolved</li> </ul>
Site defects	Service Order Response	<ul> <li>In the B2B Browser, an MP can set SORDResponseCode to Defect to notify the FRMP the customer has been issued a defect notice</li> <li>B2B Validation Module adds Defect to the list for SORDResponseCode</li> <li>Adds Defect to the SORDResponseCode enumerated list in the Electricity_r44.xsd</li> </ul>
Shared fuse meter replacement LRMP	Service Order Request	<ul> <li>FRMP can initiate Temporary Isolation - Scoping Request Service Orders for shared fusing to DNSP.</li> <li>FRMP initiated Temporary Isolation - One In All In Request Service Orders and Install Meter Isolation Device for shared fuse to DNSP</li> <li>Metering Service Works subtype Install Meter Isolation Device</li> </ul>
Shared fuse meter replacement	One Way Notification	- DNSP can initiate Meter Fault And Issue Notification to FRMP for shared fuse outage

B2B transactions has changes to support the site defects process.

### 5.4 B2B validation module

The B2B Validation Module provides the following validations:

- LMRP and One In All In are permitted values for RegClassification
- Remediation Advised is a permitted value for PurposeOfRequest
- Permitted values for SORDResponseCode:
  - Appointment Required
  - Comms Refused
  - Coordination Failure
  - Defect

- Demolished
- Dog
- Incorrect Service Order
- Mismatch with Standing Data
- Natural Event
- No Access Network Support Required
- Not FRMP
- No Adult Present
- Obstruction
- Shared Fuse Scoping Required
- Site Not Ready
- Unable To Isolate
- Unable To Locate Site
- One In All In is a permitted value for ReasonForNotice
- New validation rules when MCs update the Site Defect flag

# 6 B2M

# 6.1 B2M aseXML schema

This schema release r46 affects B2M.

For help with schema transitions, see **Guide to Transition of aseXML**.

To obtain schemas, guidelines, whitepapers etc, see aseXML Standards.

### 6.1.1 Schema changes summary

Affected files	New	Modified
aseXML_r46	n/a	Included file versions:  - ElectricityMasterStandingData - Enumerations - ClientInformation
ElectricityMasterStandi ngData_r45	Elements to support requirements related to the LMRP, Site Defects and Site Defect Notifications:  - LegacyMtrReplacementPlan - DefectFlag - OriginatingMC - Defect Type	

Affected files	New	Modified
Enumerations	4 new enumerations:  - Lower Level – LL  - Penthouse – PTHS  - Platform – PL  - Podium – PDM	FloorOrLevelType - Maximum length updated from 2 to 4 characters  Adds comment to describe the name mapping from AS4590.1:2017 to the aseXML for AustralianStreetName:  - Name - AS4590.1:2017 Abbreviation – aseXML Abbreviation  - AVENUE - AV - AVE  - CRESCENT - CR - CRES  - GLADE - GLDE - GLD  - PARKWAY - PWY - PKWY  - FIRETRAIL - FTRL - FITR  Adds comment to describe the name mapping from AS4590.1:2017 to the aseXML for AustralianFlatOrUnitType:  - Name - AS4590.1:2017 Abbreviation – aseXML Abbreviation  - DUPLEX - DUPL - DUP  - FACTORY - FCTY - FY  - FLAT - FLAT - F  - MARINE BERTH - MBTH - MB  - OFFICE - OFFC - OFF  - ROOM - ROOM - RM  - STALL - STLL - SL  - UNIT - UNIT - U  - WAREHOUSE - WHSE - WE
ClientInformation_r43	New element BuildingOrPropertyName2	BuildingOrPropertyName  - Updates maximum length from 30 to 50 characters  - Removes the MaxOccurs value  StreetName – Updates maximum character length from 30 to 45 characters  FloorOrLevelType – Updates maximum character length from 2 to 4 characters

### 6.1.2 B2M schema release implementation

During the pre-production and production implementations, participants' preferences for their B2M transaction receiving schema version is transitioned by AEMO in the MSATS Web Portal > Participants > Participant Schema as follows:

Before MSATS release		During implementation	After MSATS release		
Transaction group	B2M participant schema	Outbound schema version		B2M participant schema	Outbound schema version
CATS	LATEST	r44	AEMO transitions participants on LATEST to r46 for continued compliance	LATEST	r46
NMID	LATEST	r44		LATEST	r46
MDMT	LATEST	r44		LATEST	r46
CATS	CURRENT	r44	Participants on CURRENT remain on , with the setting changed to Superseded. Participants can choose when to transition to the new Current/Latest setting	SUPERSEDED	r44
NMID	CURRENT	r44		SUPERSEDED	r44
MDMT	CURRENT	r44			r44
CATS	SUPERSEDED	r43	AEMO transitions participants on the Superseded version r43 to the new Superseded version r44. r43 and earlier versions are unsupported; all responses return in r44	SUPERSEDED	r44
NMID	SUPERSEDED	r43		SUPERSEDED	r44
MDMT	SUPERSEDED	r43		SUPERSEDED	r44

# 6.2 Blind update tool

The Blind Update Tool (BUT) has the following changes:

• LMRP field to support initial population between 26 October 2025 to 27 November 2025.

- Updates to the LMRP values where the AER has approved amendments to the LMRP schedule over the acceleration period (2025-2030).
- BUT has a payload limit of 100,000 rows per file and a daily limit of 400,000 rows.
- When the LMRP attribute is set in the BUT, all entitled roles can request and receive the updated value in a C1 report.

BUT updates do not trigger CATS notifications. AEMO recommends only performing BUT updates when participants can capture and ingest changes.

#### 6.2.1 BUT interfaces

More information about MSATS Web Portal and BUT APIs changes provided in a technical specification update.

### 6.3 MSATS standing data

### 6.3.1 CATS standing data

Existing cats\_nmi\_data CNDnn fields used to record:

- LMRP value
- Defect Flag
- Defect Type
- Originating MC
- Building or Property Name 2

They are displayed in the NMI Master and NMI Master Summary interfaces in MSATS.

### 6.4 CATS reports

For FRMPs, C1, C4, C7, and Snapshot reports has the following additional information:

- LMRP date
- Defect flag
- Defect Type Values will be stored in the MSATS Codes Dated table

- Originating MC
- Building or Property Name 2

### 6.5 Change requests and notifications

#### 6.5.1 LMRP

Existing 5050/5051 CRs and validation rules updated to allow DNSPs to update the LMRP value.

Notifications for LMRP updates are sent to all participants with an active association to the NMI.

#### 6.5.2 Site defects

New CRs and notifications:

- For MCs updating the Defect flag, Defect Type, and Originating MC:
  - 5300 Change Defect Information
  - 5301 Change Defect Information retrospective
- Notifications for the Defect flag, Defect Type, and Originating MC updates are sent to participants with an active association to the NMI.
- For CR 3004/3005 (Exchange of Metering Information) or 3090/3091 (Advanced Meter Exchange), the Defect flag, Defect Type, and Originating MC values for the NMI are automatically set to null when a meter installation code BASIC or MRIM is removed, and a new meter installation code of COMMS\* or MRAM is activated.

#### 6.5.3 Embedded network settlement anomalies

To ensure the NMI datastream status code does not change retrospectively:

- CR 4050/4051 includes a validation to check the embedded network child name is not populated.
- New CR 4060 Change NMI Datastream Details A child NMI can be created to set the datastream status as active or inactive.

Retrospective Change NMI Datastream is not available for child NMIs-

#### 6.5.4 ICF-077 Auto populate LCCD field for new NMIs

When an NMI status is updated from Greenfield "G" to Active "A", AEMO auto-populates the LCCD field and includes the updated LCCD field in the CR 5050/5051 CATS notification to all participants who are entitled to receive the notifications.

#### 6.5.5 ICF-078

#### Affected CR Codes for new field BuildingOrPropertyName2

Change Reason Code	Impacted
2000/1	New LNSP initiating the CR
2020/1	New ENM initiating the CR
2500/1	New LNSP initiating the CR
2520/1	New ENM initiating the CR
5001	New LNSP (who must be Current LNSP where the NMI exist) initiating the CR
5021	New ENM (who must be Current ENM where the NMI exist) initiating the CR
5050/1	Current LNSP initiating the CR
5060/1	Current ENM initiating the CR
5100/1	AEMO initiating standing data update

# 6.6 NMI master and NMI master summary interfaces

The NMI Master and NMI Master Summary interfaces includes new fields:

- LMRP
- Defect flag
- Defect Type

- Originating MC
- BuildingOrPropertyName2

## 6.7 RM29 standing data quality report

The RM29 SDQ report contains new queries which are sent to MCs when:

- LMRP value is set for ineligible meter types.
- LMRP value is not set for legacy meter types.
- Defect flag, Defect Type, and Originating MC values are not null for eligible meter types.
- LMRP date is in the past.

More information provided in a technical specification update.

## 6.8 Meter exemptions

Meter exemptions includes new exemption categories and a malfunction duration.

#### 6.8.1 Meter malfunction exemption types

4 new malfunction exemption types for rectifying a meter malfunction.

Туре	Nature of exemption	Timeframe to rectify
Whole Current Connected NMI	<ul><li>Faulty meter</li><li>Faulty comms module</li></ul>	30 business days
LV CT Connected NMI	<ul><li>Faulty meter</li><li>Faulty comms module</li><li>Faulty CT</li><li>CT cabling or test block</li></ul>	As specified by the MC
HV Connected NMI	<ul> <li>Faulty meter</li> <li>Faulty metering unit</li> <li>Faulty comms module</li> <li>Faulty CT</li> <li>Faulty VT</li> <li>Blown fuse</li> <li>VT CT cabling or test block</li> <li>Marshalling box</li> </ul>	As specified by the MC
Family Failure	<ul><li>Whole current meter</li><li>LV CT meter</li><li>LV current transformer</li></ul>	140 business days for whole current meter

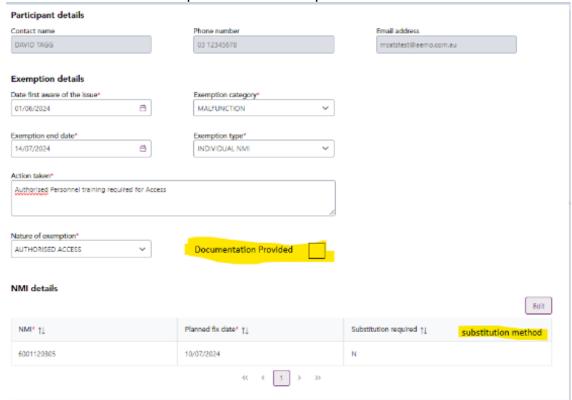
If the end date entered in the exemption exceeds the mandated timeframe to rectify the malfunction, the status is updated to More Info for the Participant to update.

If the status of the exemption is More Info and the required information has not been updated or received by the end date, it will be rejected.

#### 6.8.2 MSATS web portal > Meter exemptions

For MCs, the Participant details interface includes the following changes:

- A Documentation provided checkbox is added to indicate when additional documentation has been sent to AEMO. This is available for the exemption statuses Create and More Info.
- In the NMI details section, a new substitution method field to indicate the substitution method when the NMI requires substitution prior to remediation.



#### 6.8.3 Metering Exemptions API

The Submit Meter Exemption request payload and the Get Meter Exemption and Get Meter Exemption List responses includes new fields:

• Documentation Provided – when documentation will be sent after creating or updating an exemption.

• Substitution Method – The substitution method when the substitution flag is set when creating or updating an exemption.

#### 6.8.4 Validation rules

AEMO validates all NMIs when processing the metering exemption request. The following table describes the validation and rejection reason.

Validation	Reason for rejection
Substitution method information is not provided	Substitute Required is selected but method is not provided
An exemption with More Info status is updated within 25 calendar days	The exemption is not updated in the required timeframe
Family Failure type exemption is sent for an extension	An extension is not allowed for this exemption type
Whole Current Connected NMI type exemption is sent for an extension	An extension is not allowed for this exemption type
Reject NMIs that recently had an exemption	NMIs assigned to a Family Failure exemption is included in another Family Failure exemption within the NMI duration validation period
Reject a NMI that recently had an exemption	A NMI assigned to a whole current connected NMI exemption is also included in another individual NMI exemption within the NMI duration validation period

# 7 ROLR Reports

#### 7.1 Process

The ROLR report delivery process is changing from email to files delivered as a .zip file to the Participant File Server Outbox.

ROLR report notifications are added to the CATS transaction group using the API or FTP protocol. For information about changing your outbox protocol, see **Change your outbox protocol** in Markets Portal Help.

## 7.2 Discontinued ROLR reports

The following ROLR reports are discontinued from 1 December 2025.

Report number	Report name	Recipient
ROLR_002	RoLR/FRMP Summary Report Type B	MDP
ROLR_003	RoLR/FRMP Summary Report Type C	LNSP
ROLR_004	RoLR/FRMP Summary Report Type D	RoLR as the new FRMP
ROLR_005	RoLR/FRMP Summary Report Type D	The Suspended Retailer (SR)
ROLR_006	RoLR/FRMP Summary Report Type E	MPB
ROLR_007	RoLR/LR Summary Report Type A	Each Jurisdiction
ROLR_008	RoLR/LR Summary Report Type B	MDP
ROLR_009	RoLR/LR Summary Report Type C	LNSP
ROLR_010	RoLR/LR Summary Report Type D	Each RoLR (either as the new FRMP, as the new LR or both)
ROLR_011	RoLR/LR Summary Report Type D	The Suspended Retailer (SR)
ROLR_012	RoLR/LR Summary Report Type E	Each MPB
ROLR_014	RoLR/LR NMI List - SR is LR	All relevant participants
ROLR_027	CRs to change FRMP still in progress for NMIs that have changed due to RoLR Event (by Jurisdiction)	Each Jurisdiction

# 8 FAQs

### 8.1 Why is AEMO updating the hazard field?

The approach for the hazard field update is still being determined. The hazard field may be removed, but this is TBC.

#### 8.2 When will the draft r46 schema be available?

24 April 2025.

#### 8.3 How do I find the latest electricity schema?

There are two electricity schema types - B2B and B2M. You can find the latest aseXML schema in MSATS:

- B2M In the Participant > Participant schema interface. See view your B2M schema
- B2B In the B2B Browser > Transforms and Protocol interface. See ➡B2B protocols

# 8.4 Is an aseXML schema version specific to either gas or electricity?

Yes, some versions do not apply to the gas or electricity market. Additionally, an electricity schema version can contain B2B and B2M changes, only B2B changes, or only B2M changes.

# 8.5 When does a participant receive the new LCCD value?

The LCCD update is an automated change triggered through specified CRs. When AEMO detects an NMI transitioning from a "Greenfield" (G) to "active" (A), a batch process is initiated to update the LCCD field. This field is in the completion notification for the change request.

# 8.6 Does the change request notification include the LCCD tag when the NMI status updates from G to A?

When the NMI status updates from "Greenfield" (G) to "active" (A), the change is reflected in the 5050 or 5051 change request. The LCCD value is included in the notification sent to participants.

# 8.7 Why is the r46 aseXML schema being released on 26 October 2025, but the effective date is 1 December 2025?

To minimise impacts to all Market Participants, AEMO aims to only release one schema version per year. Participants are obligated to populate and maintain the LMRP field from 26 October 2025.

The schema also includes new and updated fields to support Rule changes effective from 1 December 2025. This means they should not be used until 1 December 2025.

# 9 Implementation

#### 9.1 Transition

See aseXML r46.

### 9.2 Upgrade options

#### Option 1

Update local processes and technical interfaces to suit the changes.

#### Option 2

• If changes are irrelevant to participants' business processes and technical interfaces, ignore this release.

#### 9.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

#### 9.4 Risks

Participants do not receive the new B2M and B2B aseXML schema fields unless they upgrade to r46.

# 10 Terms

#### 10.1 Rules Terms

You can find the following terms defined in the **National Electricity Rules (NER)** and the **Settlements Residue Auction Rules**.

Term
AEMO
AEMO Markets Portal
AEMO Website
Market Participants
Maximum Units
NEM
Product
Region
Regional reference prices
Registered Participant

# 10.2 Glossary

You can find a full list of AEMO glossary terms in Industry Terminology on AEMO's website.

Abbreviation/Term	Explanation
AEST	Australian Eastern Standard Time
B2B	Business-to-business
B2M	Business-to-market
СТ	Current transformer
DNSP	Distribution Network Service Provider
ERCF	Electricity Retail Change Forum
EMMS	Electricity Market Management System; software, hardware, network, and related processes to implement the wholesale energy market
ENM	Embedded Network Manager
FCAS	Frequency Control Ancillary Services
FRMP	Financially Responsible Market Participant
HV	High voltage
ICF	Industry Change Form
LCCD	Last Consumer Change Date
LNSP	Local network service provider
LMRP	Legacy meter replacement plan
LV	Low Voltage
мс	Meter Coordinator
MP	Metering Provider
MDP	Metering Data Provider
MSATS	Market Settlement and Transfer Solution for retail electricity
MSR	Metering Services Review
MW	Megawatt

Abbreviation/Term	Explanation
NER	National Electricity Rules
One In All In	A process where all meters on a shared fuse arrangement are upgraded at the same time
PQD	Power Quality Data. Smart meter data including volts, amps, and phase angle delivered to DNSP
Release	MSATS - Technical Specification - October 2025
Release Dates	Pre-production: Tuesday 2 September 2025 Production: Sunday 26 October 2025
ROLR	Retailers of Last Resort
TBC	To be confirmed

# 11 References

**Guide to AEMO's e-Hub APIs**: Provides details about using AEMO's e-Hub as an interface to communicate information with AEMO. It assists Wholesale electricity and gas participants developing their own APIs.

**Guide to Information Systems:** Provides guidance for *Registered Participants* and interested parties about AEMO's participant electricity market systems.

**Guide to User Rights Management**: Assists participant administrators (PAs) to use the user rights management functions in the MSATS Web Portal.

**Retail Electricity Market Glossary and Framework**: assist participants of the Retail Electricity Market to understand the overall framework. It also contains a list of terms used in the Retail Electricity Market Procedures and a full list of NEM procedures, guidelines, and documents.

# A1. aseXML r46 Draft Files and Changes

More information provided in a revised technical specification.

# A2. Version history

v0.03

This is the initial draft.