

MSATS - Technical Specification - May 2026

0.02 September 2025

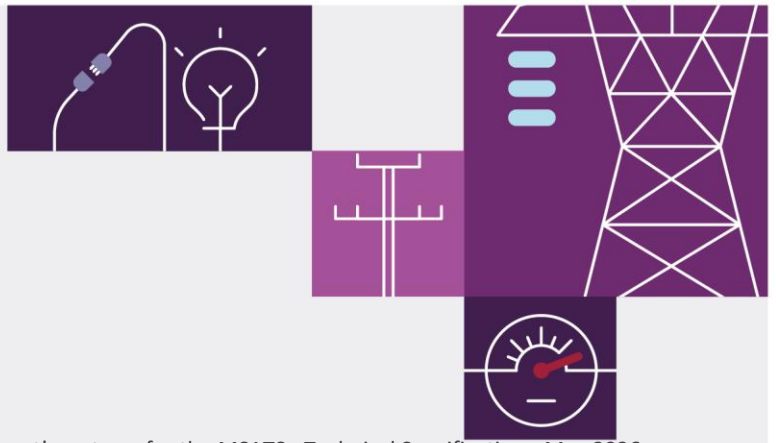
Pre-production: Tuesday 31 March 2026

Production: Sunday 31 May 2026

Rules effective: Sunday 31 May 2026

Release series: MSATSFTA030525





Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the MSATS - Technical Specification - May 2026 (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business 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

0.02 Initial creation

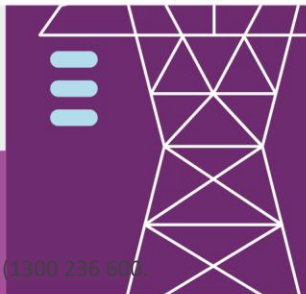
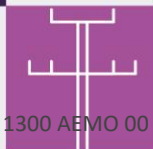
Documents made obsolete

The release of this document changes only the version of MSATS - Technical Specification - May 2026.



Support Hub

To contact AEMO's Support Hub use Contact Us on AEMO's website or for urgent matters phone: 1300 AEMO 00 (1300 236 600).





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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 is MCs and MDPs to identify meter data quality and quantity.

1.2 Objective

The MSATS - Technical Specification - May 2026 (Release) describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

1.3 Status

Version	Status
0.02	In progress. The design is not ready for participants' builds.
0.01	 Initial Draft for review. The design is not ready for participants' builds Presents the MSATS - Technical Specification - May 2026 evolving design. Please send feedback to techwriters@aemo.com.au

1.4 Release dates

Scheduled for implementation in:

- Pre-production: Tuesday 31 March 2026
- Production: Sunday 31 May 2026

1.5 Projects and enhancements

Changes and enhancements for this Release include:

No.	Functionality	Change	Affected interface	Reference
1	eMDM	New type 9 MITC	n/a	Flexible Trading Arrangements

1.6 Rule and procedure changes

Title	Status	Effective
Unlocking CER benefits through flexible trading Rule Change	Final	31 May 2026 for Type 9 meters
Metrology Procedure Part A v8.0	Draft	31 May 2026
Metrology Procedure Part B v8.0	Draft	31 May 2026
MSATS National Metering Identifier Procedure v8.0	Draft	31 May 2026
MSATS Procedures - Principles and Obligations for All Connection Points v8.0	Draft	31 May 2026
Retail Electricity Market Procedures – Glossary and Framework v4.6	Draft	31 May 2026
Service Level Procedure MP Services v2.0	Draft	31 May 2026

1.7 Related technical specifications

None

1.8 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
Guide to MSATS Reports and Alerts	Describes reports to help participants manage standing data and B2B transactions and metering data management	Not started

1.9 Related software

There are no software changes.

1.10 Approval to change

No approval or agreement to change required from participant change controllers. AEMO is seeking approval in the 2025 Flexible Trading Arrangements consultation.

1.11 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.

1.12 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.

1.13 Changes in this version

This version has the following changes:

Introduction

- Revises document title
- Revises production release date
- Adds FAQs from the MSUG meeting

2 Proposed Timeline

The dates for the Market System User Group Meetings (MSUG) are tentative. We will provide an invitation one week prior to the meeting.

Milestone	Date	Description
Approval required	n/a	Final date for participant approval of this Release
Revised Technical Specification	August 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 related documents become the source of truth Technical Specification Portal
Related Documents publication	Tuesday 31 March 2026	Release of guides and resources mentioned in Related documents
Pre-production refresh	24 August 2025 – 28 August 2025	Refresh of the retail pre-production system with data from the production system. For more information, see Pre-production Refresh
Pre-production implementation	Tuesday 31 March 2026	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 31 March 2026	Testing period begins for participants
Participant testing	6 April 2025 - 3 May 2025	Unstructured participant testing in the pre-production environment
MSUG meeting	13 August 2025	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
Production implementation	Sunday 31 May 2026	AEMO implements the release to production

3 Participant Impact

3.1 MITC codes

New Meter Installation Type Codes (MITC) COMMS9 and COMM9CMS for type 9 metering installations.

3.2 MDM reports

RM30 Performance Monitoring report includes the COMMS9 group code. Quality and Quantity reporting for both COMMS9 and COMM9CMS MITC is aggregated into the COMMS9 report group.

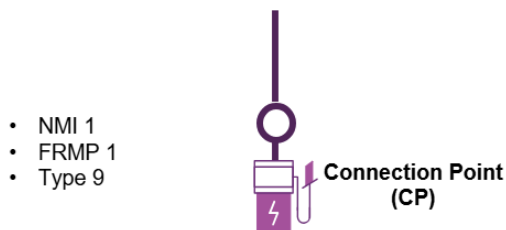
4 Flexible Trading Arrangements

4.1 Goal

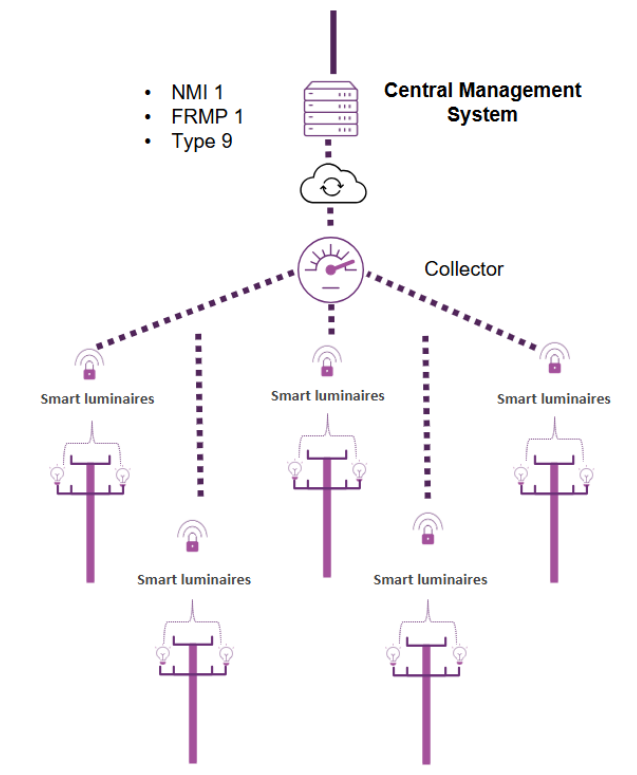
The Unlocking CER Benefits Through Flexible Trading rule change facilitates flexible trading with multiple energy service providers at large customer premises, optimizes Customer Energy Resources (CER) flexibility for small customers, and measures energy flows from in-built technology such as streetlights and EV chargers.

The project's main objective is to implement the Flexible Trader Model 2 (FTM2), allowing end users to establish private metering arrangements (PMA) for controllable resources managed by separate financially responsible Market Participants (FRMPs), and to introduce minor energy flow metering to accommodate non-traditional metering installations within PMAs.

This release only introduces type 9 meters allowing street-furniture, like kerbside EV chargers, smart street lighting systems and some unmetered connections, to integrate into the NEM metering framework.



A Type 9 meter can aggregate multiple loads, for example multiple streetlights under one NMI using a Central Management System (CMS).



4.2 MITC codes

New Metering Installation Type Codes (MITC).

Meter Installation type	MITC	Meter installation description
Type 9	COMMS9	Interval Comms – Type 9 Applicable for single device metering installations
Type 9 CMS	COMM9CMS	Interval Comms – Type 9 CMS Applicable for multiple device installations using a CMS

4.3 Manufacturer values

Type 9 meters added to MSATS_CODES_DATED table.

CODEGROUP	CODE	CODEDESC
METER_MANUFACTURER	TYPE9	TYPE9
METER_MANUFACTURER	TYPE9CMS	TYPE9CMS

METER_MODEL	TYPE9	TYPE9
METER_MODEL	TYPE9CMS	TYPE9CMS

4.4 RM30 performance monitoring report

The RM30 Performance Management Report includes Type 9 meters.

Purpose	A monthly report of a participant's performance
Content	The report content varies by participant role: - MDP: Includes meter data quantity and quality checks. - LNSP, ENM, MPB, FRMP, MC: Similar details but without MDP specific metrics.
Availability	Monthly
Recipient	MDPs, LNSP/ENM, MPBs and MCs (RP), FRMP
Delivery	Emailed to participants. Unavailable for request
Format	PDF
User rights access	n/a

4.4.1 Output by role

MDP

Description	ID	Source
Actual Change Dates not compliant with CATS procedures	15ERRS	CATS
Duplicate active Datastreams, or interval and non-interval Datastreams active for the same period	DANDS	CATS
Datastream status error	DSERR	CATS
Multiple Active Settlement Datastreams	MASDS	CATS
Multiple Active Settlement Datastreams With Net	MASDSWN	CATS
Possible incorrect MDP assignment	MDPERR	CATS
COMMS meters with incorrect MDP	MDPERR2	CATS
Null Next Scheduled Read Dates	NONSRD	CATS

Description	ID	Source
NMIs without active Datastreams	NWADS	CATS
Next scheduled read dates not updated	NSRD	CATS
MSATS transactions waiting Actual Change Dates	TWADS	CATS

ENM

Description	ID	Source
Active Datastream with a non-active NMI	ADWNAN_INTERVAL2	eMDM
Incorrect DLFs for child NMIs	DLFERR_CHILD	CATS
LNSP participant ID error for non-child NMI	LNSPERR	CATS
NMI status not updated to 'A' within 5 business days	NMIST1_CHILD	CATS
NMI status not updated to 'X' within 5 business days NMI status not updated to 'N' within 5 business days	NMIST3_CHILD	CATS
NMI status not updated to 'D' within 5 business days	NMIST4_CHILD	CATS
SAPS NMI has an Embedded Network Code	SAPSENC	CATS
Incorrect TNIs for child NMIs	TNIERR_CHILD	CATS

FRMP

Description	ID	Source
Customer Classification Code	CCCERR	CATS
Type 6 and MRIM NMIs exceeding meter installation capacity	HIGHREAD2	eMDM
Incomplete Transfer	INCOMPLETE_TFR	CATS
MSRP (FRMP) has been assigned to a NMI that is not assigned to a SAPS TNI.	NONSAPSMSRP	CATS
SGA or MSRP (FRMP) has been assigned to a NMI with a NMI Class Code of 'GENERATR'.	NOTELGEN	CATS
Responsible Person Participant ID Error	RPERR4	CATS

Description	ID	Source
SGA (FRMP) has been assigned to a SAPS NMI.	SAPSSGA	CATS

LNSP

Description	ID	Source
Active Datastream with a non-active NMI (Accumulation)	ADWNAN_BASIC	eMDM
Active Datastream with a non-active NMI (Interval)	ADWNAN_INTERVAL	eMDM
Customer Threshold Code	CTCERR	CATS
Incorrect DLF's for non-child NMIs	DLFERR	CATS
LNSP Participant ID error for child NMI	LNSPERR_CHILD	CATS
NMIs with incorrect characters	NMIERR2	CATS
Incorrect active NMIs created in MSATS	NMIERRW	CATS
NMI status not updated to 'A' within 5 business days	NMIST1	CATS
NMI status not updated to 'X' within 5 business days	NMIST2	CATS
NMI status not updated to 'D' within 5 business days	NMIST4	CATS
Missing Network Tariff Code (including Meter Serial Number & Reg ID)	NONETAC	CATS
DLF other than SAPS assigned to a SAPS NMI.	NONSAPSDLF	CATS
Sample Participant ID error	SAMPLERR	CATS
SAPS DLF assigned to non-SAPS NMI.	SAPSDLF	CATS
SAPS NMI has an Embedded Network Code	SAPSENP	CATS
SAPS TNI does not have an active SAPS Generation Connection Point	SAPSNOKEN	CATS
SAPS TNI does not have an active SAPS End User Connection Points	SAPSNONMI	CATS
Incorrect TNI for non-child NMIs	TNIERR	CATS

MC

Description	ID	Source
Type 6 and MRIM NMIs exceeding meter installation capacity	HIGHREADS	MDM
Exemption exceeded expiry date and is set to expire	ME_EXPIRED	CATS
Responsible Person NMI error	METERERR	CATS
Active Responsible Person Participant ID Error 1	RPERR1	CATS
Active Responsible Person Participant ID Error 2	RPERR2	CATS
Active Responsible Person Participant ID Error 3	RPERR3	CATS

MPB

Description	ID	Source
Incompatible listed Meter type indicator	ACTERR	CATS
Incompatible Controlled Load Indicator	CLOSER	CATS
Metering installation details not updated within 2 business days	METDET	CATS (Inactive)
No Meter in MSATS	NOMETER	CATS
Missing Network Tariff Code (including Meter Serial Number and reg ID)	NONETAC_MPB	CATS
No Register ID	NOREG	CATS
Controlled Load only suffix entered	ONLYCLOAD	CATS
Incorrect Register ID	REGID	CATS
Meter serial number has invalid characters	SERNUM	CATS
Register ID with incorrect suffix	SUFFIXERR	CATS
Possible meter type error in meter register table	TERROR	CATS

5 Implementation

5.1 Transition

The changes are to AEMO systems, so there is no transition required for this release.

5.2 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.

5.3 Risks

No critical impacts to participants identified.

6 Terms

6.1 Rules Terms

You can find the following terms defined in the [National Electricity Rules \(NER\)](#).

Term	Term	Term
AEMO	Market connection point	Small customer metering installation
AEMO Markets Portal	Metering installation	
AEMO Website	NEM	
Central management system	Registered Participant	

6.2 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
CER	Consumer Energy Resources
CMS	Central Management System
EMMS	Electricity Market Management System; software, hardware, network and related processes to implement the wholesale energy market
EN	Embedded Network
FCAS	Frequency control ancillary services
FTP	File transfer protocol
MSATS	Market Settlement and Transfer Solution for retail electricity
NER	National Electricity Rules

Abbreviation/Term	Explanation
MW	Megawatt
NSP	Network Service Provider
PNSP	Premises Network Service Provider
PMA	Private metering arrangement
Release	MSATS - Technical Specification - May 2026
Release Dates	Pre-production: Tuesday 31 March 2026 Production: Sunday 31 May 2026
SSP	Secondary Settlement Point
TBC	To be confirmed
TNI	Transmission Node Identifier

7 FAQ

7.1 How are the customer type enumerations being updated in the aseXML schema for the new Type 9 and Type 9 CMS MITC?

New enumerations for CustomerType element are in ElectricityEnumerations.xsd. Because it is a non-versioned file, AEMO provides an updated version for aseXML r46 to add to your schema repository. For information about non-versioned files, see [Non versioned files](#).

7.2 How do I raise support tickets and get access to the pre-production environment for testing?

For support issues, email: support.hub@aemo.com.au

For pre-production access, contact your organisation's Participant Administrator. If you're unsure who your Participant Administrator is, your IT department should be able to assist. For help, see [Guide to User Rights Management](#) and [User Administration](#).

8 References

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.

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A1. Version history

No version history, this is the initial draft release.