



# Important notice

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#### Purpose & audience

This document describes the technical changes required to participants' systems for the MSATS - Technical Specification – June 2024 (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 National 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 usually on AEMO's website.
- Text in this format is an action to perform in the MSATS Web 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.
- Rules and Glossary Terms are capitalised and have the meanings listed against them in the National Electricity Rules (NER) and Retail Electricity Market Glossary and Framework.

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#### **Distribution**

Available to the public.

#### **Document identification**

Prepared by: AEMO Digital Last update: Monday, 15 April 2024 12:00 PM

#### Version history

V1.03 See Changes in this version.

#### Documents made obsolete

The release of this document changes only the version of MSATS - Technical Specification – June 2024.

#### Contact us

**Support Hub**: To contact AEMO's Support Hub use **Contact Us** on AEMO's website or Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

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# **1** Introduction

# 1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in participants' organisations.

The primary audience for this technical specification is:

- Financially Responsible Market Participants (FRMP).
- Local Network Service Providers (LNSP) updating their CATS Standing Data.
- Embedded Network Child Connection Points with a different TNI Code than the Parent Connection Point.

# 1.2 Objective

The MSATS - Technical Specification – June 2024 describes AEMO's **projects and enhancements** from participants' perspective, including related changes to participants' IT systems.

For details about MSATS functionality, see Technical Guide to MSATS.

# 1.3 Status

| Version | Status  |
|---------|---|
| V1.03   | The design continues to evolve. We expect further small changes as testing continues. |

V0.01



Initial Draft for review. The design is not ready for participants' builds Presents the MSATS - Technical Specification – June 2024 evolving design Please send feedback to techwriters@aemo.com.au

### 1.4 Release dates

Scheduled for implementation in:

- Pre-production: Tuesday 12 March 2024
- Production: Monday 13 May 2024
- Rules and Procedures effective: Sunday 2 June 2024

# 1.5 Projects and enhancements

| Project                                      | Description   | Туре    |
|--|---|---------|
| Integrating Energy Storage Systems<br>(IESS) | <ul> <li>New FRMP registration category: Integrated Resource<br/>Provider</li> <li>New NMI Classification Codes to support Bidirectional<br/>Units</li> </ul> | 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

| Project                              | Title  | Version<br>/status | Effective        |
|--------------------------------------|--|--------------------|------------------|
| Integrating<br>Energy                | <ul> <li>Retail Electricity Market Procedures – Glossary and Framework</li> <li>Metrology Procedure: Part A National Electricity Market</li> </ul> | 4.1                | Sunday 2<br>June |
| Storage<br>Systems<br>into the       | - MSATS Procedures: CATS Procedure Principles and Obligations  | 5.7                | 2024             |
| NEM: Retail<br>Electricity<br>Market | - MSATS Procedures: Procedure for the management of wholesale, interconnector, generator and sample (WIGS) NMIS                                    | 5.7                |                  |
| Procedures consultation              | - MSATS Procedures: Metering Data Management Procedures  | 4.5                |                  |
|                                      | - MSATS Procedures: National Metering Identifier   | 7.2                |                  |
|                                      | - Metrology Procedure Part A: National Electricity Market  | 7.6                |                  |
|                                      | - Metrology Procedure: Part B Metering Data Validation, Substitution and Estimation  | 7.6                |                  |
|                                      | - Exemption Procedure: Metering Installation Data Storage Requirements   | 1.1                |                  |
|                                      | - Standing Data for MSATS  | 5.7                |                  |
|                                      | - Guide to the Role of the Metering Coordinator  | 1.3                |                  |
|                                      | - Service Level Procedure: Metering Data Provider Services   | 2.4                |                  |
| Information<br>Exchange              | B2B Procedure Customer and Site Details Notification Process   | TBC                | TBC              |
| Committee<br>(IEC)                   | B2B Procedure Service Order Process  |                    |                  |
|                                      | B2B Guide  |                    |                  |

# 1.8 Related technical specifications

| Title                                      | Description  |
|--|--|
| EMMS - Technical Specification – June 2024 | <ul> <li>Changes to NEM wholesale systems as part of the<br/>IESS project</li> </ul> |

# 1.9 Related software

No related software.

# 1.10 Related documents

Once published, these resources take precedence over this technical specification

| Title                          | Description   | Publish date       |
|--------------------------------|---|--------------------|
| Technical<br>Guide to<br>MSATS | Supplement to MSATS B2M policies, procedures, and guides<br>providing an understanding of MSATS functionality and business<br>rules<br>Contains information about the CATS History Model and NMI<br>Discovery Questions and Answers | Sunday 2 June 2024 |
| Guide to<br>MSATS<br>Reports   | Details about CATS and MDM reports  | Sunday 2 June 2024 |

These guides and resources are updated according to this technical specification.

# 1.11 Approval to change

**No** approval or agreement to change required from Participant change controllers. AEMO sought approval in the Integrating Energy Storage Systems into the NEM: Retail Electricity Market Procedures consultation.

### 1.12 Version numbers

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

Incremental version numbers such as 0.01, 1.01, 2.01 and so on mean a draft version or a small 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 the changes detailed in this Release.

#### 1.13 Changes in this version

- Updated information in NMI Classification Codes (NCC)
- Updated Role Categories field information in New MSATS Role Categories for IRPs and Small Resource Aggregators
- Added information about MDP Substitution Type 13 data

# 2 Proposed Timeline

| Milestone                           | Date  | Description  |
|-------------------------------------|---|--|
| Approval required                   | n/a   | No approval required. For details, see <b>Approval to</b> change   |
| Revised technical specification     | March 2024  | AEMO releases new versions of this document as<br>the technical requirements are streamlined. During<br>the project this document is the source of truth<br>From the pre-production release, the technical<br>specification is no longer updated, the <b>related</b><br><b>documents</b> become the source of truth<br><b>Release schedules and technical specifications</b>   |
| MSATS pre-<br>production refresh    | 1 July 2024 – 5 July 2024<br>Refreshed with production<br>data from 1 July 2024 | Refresh of the pre-production system with data<br>refreshed from the production system. An outage of<br>up to five days can occur to the pre-production<br>environment during this period. Participant access is<br>not restricted, however, AEMO do not guarantee the<br>pre-production data content or system availability.<br>During the refresh, access to other AEMO systems<br>such as AWEFS, EMMS, OPDMS, and STTM may be<br>intermittently affected. For details, see <b>AEMO</b>  <br><b>Technical Specification Portal</b> . |
| Market trials and industry testing  | 3 April 2024 – 24 May 2024  | Testing of IESS capability conducted in the pre-<br>production environment. It is open to all participants<br>to confirm their updated market processes, and it<br>includes scheduled scenarios as agreed with<br>Industry.  |
| Pre-production<br>implementation    | Tuesday 12 March 2024 –<br>Wednesday 13 March 2024                              | AEMO implements components of the Release to<br>pre-production for Participant testing<br>AEMO has full access to the system during this<br>period<br>Participant access is not restricted; however, the<br>data content or system availability is not guaranteed  |
| Pre-production<br>systems available | Tuesday 12 March 2024   | Testing period begins for participants. AEMO assistance available if required  |
| Related documents publication       | Tuesday 12 March 2024   | Release of guides and resources mentioned in Related documents on page 4   |

#### Proposed Timeline

| Milestone                       | Date                 | Description   |
|---------------------------------|----------------------|---|
| MSUG meeting                    | Wednesday 8 May 2024 | MSUG to review the implementation of this<br>production release and ask AEMO technical SMEs<br>questions<br>This date is tentative. The project manager will<br>provide an invitation one week prior to the meeting |
| Production<br>implementation    | Sunday 12 May 2024   | AEMO implements the release to production   |
| Production systems<br>available | Monday 13 May 2024   | Production systems available  |
| Procedures effective            | Sunday 2 June 2024   | Rules and procedures effective  |

# 3 Participant Impact

# 3.1 Market participant category

There is a new Market Participant category called Integrated Resource Provider(IRP), who operates as a FRMP.

The IRP can register to classify Retail Load and Integrated Resource Systems (IRS), which can include Bidirectional units (BDU), Market Generators, Market Loads, and Market Connection Points (previously Market Loads and Small Generating Connection Points) through AEMO registration processes and systems.

#### 3.1.1 New MSATS Role Categories for IRPs and Small Resource Aggregators

As part of IESS, the existing Small Generation Aggregator (SGA) registration category is transferring to the new IRP registration category and will operate as a "Small Resource Aggregator" in relation to small resource connection points that it has classified.

In order to support identification of IRPs in MSATS, AEMO is introducing two new Role Categories:

- IRPNRL: Identifies an IRP that does not hold a retailer licence and may not classify SMALL, LARGE or NCONUML NMIs. This code will replace the existing SGA role category.
- IRP: IRP that holds a retailer licence and may classify SMALL, LARGE or NCONUML NMIs.

The Role Category field is maintained by AEMO and stored in the

CATS\_PARTICIPANT\_ROLES table, which is accessible via C1 reports. To identify an IRP that is operating as a Small Resource Aggregator, participants can use the two new role categories in combination with the NMI Classification Code of NREG. Other IRP labels can be identified in a similar manner.

The Role Category field was introduced to identify FRMPs registered as a Market Stand-Alone Power System (SAPS), Resource Provider (MSRP), and SGAs for the purpose of SAPS validations. However, the SGA value will be removed (as SGAs will no longer exist as a registration category after IESS) and replaced with the IRP and IRPNRL values.

The distinction between IRPs with and without a retailer licence is included to support AEMO validation processes, which will be implemented in a future release.

### 3.2 Bidirectional units

(BDU) having a single NMI and Transmission Node Identifier (TNI), opposed to currently where storage units have separate NMIs classified as a Scheduled Generating Unit and a Scheduled Load.

### 3.3 Change request processing

Change Request (CR) configuration is updated to reference the new **NMI Classification Codes** (NCC).

Anyone requiring a list of their organisation's NMIs that will be updated for the NCC updates can request them from **NEMReform@aemo.com.au** 

# 3.4 Reports

There are small changes to some MDM reports.

# 3.5 NMI Classification Codes (NCC)

There are new and amended NMI Classification Codes to accommodate integrated resource systems, distinguish between distribution and transmission connected generating systems for correct allocation of unaccounted-for energy, and incorporate terminology changes.

These NCCs were consulted on through the IESS retail procedure consultation and are defined in the CATS procedure.

| Code     | Description  | Status  |
|----------|--|---------|
| DGENRATR | Connection point associated with a generating system registered with AEMO and connected to a registered network other than a transmission network or embedded network. AEMO assigns this NMI Classification from the Generator registration approval date.           | New     |
| GENERATR | Connection point associated with a generating system registered with AEMO and connected to a transmission network. AEMO assigns this NMI Classification from the Generator registration approval date.   | Amended |
| DIRS     | Connection point associated with an integrated resource system (IRS) registered with AEMO and connected to a registered network other than a transmission network or embedded network. AEMO assigns this NMI Classification from the IRS registration approval date. | New     |

#### Participant Impact

| Code | Description   | Status  |
|------|---|---------|
| NREG | A small resource connection point that is not a micro DER connection that connects<br>one or more small generating units, or small bidirectional units (or any combination),<br>to a distribution network where the only supply to the connection point is for use by a<br>small bidirectional unit (e.g. charging load) or auxiliary load. | Amended |
| TIRS | Connection point associated with an integrated resource system (IRS) registered with AEMO and connected to a transmission network. AEMO assigns this NMI Classification from the IRS registration approval date.  | New     |

AEMO will transition NMIs for distribution-connected generating systems (and the generation side of distribution-connected storage systems) from GENERATR to DGENRATR for IESS golive using the Bulk Change Tool (BCT), in accordance with the **NMI Classification Code Transition Plan**. This occurs the day after the systems release with the start date backdated to the IESS go-live date. The BCT notification will contain a BC01 code.

Where required, NMIs in a grid-scale Battery Energy Storage System (BESS) transitions from the two NMI model to a single NMI as part of IESS. For details, see the IESS Bidirectional Unit Transition and Cutover Plan in the **IESS participant toolbox**.

An NMI associated with a BESS is transitioned during a subset of BDU cutover activities from GENERATR to TIRS or DGENRATR to DIRS using 5101 or 5100 CR codes. AEMO has engaged BESS participants and Metering Service Providers with affected NMIs through IESS information sessions. Information is also available in the IESS participant toolbox. For further questions, contact NEMReform@aemo.com.au.

# 3.6 MDP Substitution Type 13 data

AEMO creates MDFF 5 and 15min files for consumption by Metering Data Providers (MDPs) to perform type 13 metering data substitution, if required.

MDPs utilise SCADA MDFF data for type 13 meter read substitutions to fulfil their obligations for both B2M and B2B Transactions in compliance with the **Metrology Procedure Part B**.

From the IESS rule commencement date Monday 3 June 2024, the csv file includes interval data for registered and effective BDUs. To support BDUs, the file format is the same, but it contains the following data changes:

 200 line contains the BDU information. This information is populated based on the following rules:

- The Dispatchable Unit ID
- Left padded with 'Z' to complete the 10 characters for an NMI
- E1 300 line for kWh intervals when a BDU is consuming load
- B1 300 line when a BDU is generating

#### Figure 1 Sample SCADA MDFF

| 100 | NEM12      | 202406031534 | NEMMCO | NEMMCO |      |      |     |    |      |     |     |     |     |      |   |   |      |      |      |      |   |             |              |              |
|-----|------------|--------------|--------|--------|------|------|-----|----|------|-----|-----|-----|-----|------|---|---|------|------|------|------|---|-------------|--------------|--------------|
| 200 | BDUDUIDZZZ | E1B1         |        | E1     |      |      | kWh | 15 |      |     |     |     |     |      |   |   |      |      |      |      |   |             |              |              |
| 300 | 20240225   | 0            | 0      | 0      | 0    | 0    | 0   | 0  | 0.17 | 512 | 402 | 500 | 984 | 1474 |   |   | 0    | 0    | 0    | 0    | 0 | <b>S1</b> 3 | 0 Scada data | 202406031534 |
| 200 | BDUDUIDZZZ | E1B1         |        | B1     |      |      | kWh | 15 |      |     |     |     |     |      |   | - |      |      |      |      |   |             |              |              |
| 300 | 20240225   | 0            | 4.17   | 0.67   | 9.17 | 6.17 | 0   | 0  | 0    | 0   | 0   | 0   | 0   | 0    |   |   | 15.8 | 7.67 | 4.08 | 0.25 | 0 | S13         | 0 Scada data | 202406031534 |
| 900 |            |              |        |        |      |      |     |    |      |     |     |     |     |      | 2 |   |      |      |      |      |   |             |              |              |

#### 3.6.1 Retrieving the files

MDPs can retrieve these files via FTP from the following EMMS participant file folders:

- <#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\MDA\_MDFF5
- <#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\MDA\_MDFF

#### 3.6.2 Transitioning BESS

For BESS, the following data is observed when transitioning from two DUIDs to a single BDU.

| Status   | Pre-cutover  | Cutover   | Post-cutover  |
|--|--|---|---|
| BDU DUID   | DUID present in<br>payloads with all<br>intervals associated<br>to E1 and B1 are 0 | E1 and B1 are 0 until the<br>cutover time (i.e., 1 pm<br>interval), then the actual<br>SCADA values for<br>remainder of the day           | Continuous actual SCADA values,<br>E1 for load and B1 for generation  |
| Existing two<br>DUID BESS (load<br>and generation<br>pair) | No change  | E1 and B1 are the actual<br>SCADA values until the<br>cutover time (i.e., 1 pm<br>interval), then zero values<br>for remainder of the day | DUID present in payloads with all<br>intervals associated to E1 and B1<br>are 0 until the two DUID<br>deregistered +5 day of cutover,<br>then it is not present in payloads |

# **AEMO MSATS configurable code fields**

There are no changes to the MSATS configurable code fields. AEMO recommends participants do not hard code the MSATS configurable fields.

# 4 Change Request Processing

The configuration of the following existing Change Requests (CRs) changes to allow for the **new NMI Classification Codes** (NCC). Participants can update the CATS Standing Data accordingly.

| CR code   | CR name                                       | Jurisdiction code |
|-----------|---|-------------------|
| 1000      | Change Retailer                               | ALL               |
| 1020      | Error Corrections                             | ALL               |
| 1500      | Provide Actual Change Date                    | ALL               |
| 2000/2001 | Create NMI                                    | ALL               |
| 2020/2021 | Create Child NMI                              | ALL               |
| 2500/2501 | Create NMI, Meter Install and Data Stream     | ALL               |
| 3000/3001 | Create Metering Installation Details          | ALL               |
| 3004/3005 | Exchange of Metering Information              | ALL               |
| 3050/3051 | Change Metering Install Details               | ALL               |
| 3100/3101 | Change Network Tariff Code                    | ALL               |
| 4000/4001 | Create NMI DataStream                         | ALL               |
| 4004/4005 | Exchange of Datastream Information            | ALL               |
| 4050/4051 | Change NMI Datastream                         | ALL               |
| 5001/5021 | Backdate an NMI                               | ALL               |
| 5050/5051 | Change an NMI                                 | ALL               |
| 5060/5061 | Change NMI Embedded Network Child             | ALL               |
| 5056/5057 | Change NMI Details –Last Consumer Change Date | ALL               |

#### Change Request Processing

| CR code   | CR name                             | Jurisdiction code |
|-----------|-------------------------------------|-------------------|
| 5080/5081 | Change Parent Name                  | ALL               |
| 5100/5101 | Correct NMI Master Data (AEMO only) | ALL               |
| 6100/6110 | Change LNSP                         | ALL               |
| 6200/6210 | Change MDP                          | ALL               |
| 6300/6301 | Change MC                           | ALL               |
| 6421      | Change ENLR for a CHILD NMI         | ALL               |
| 6500/6501 | Change ROLR                         | ALL               |
| 6700/6701 | Change MPB or MPC or BOTH           | ALL               |

# 5 MDM Reports

# 5.1 RM16 - Level 1 Settlement Reconciliation Report

There are no structural changes to the report, but the data differs to include **NCC changes**, Parent and Child Connection Points where they are part of an Embedded Network: Single Parent Embedded Network: the sum of net energy volumes for on-market child NMIs will be subtracted from the parent net energy (parent - child)

Multiple Parent Embedded Network: rules will be applied to subtract the sum of net child energy values for on-market NMIs from the parent netted energy:

- Match the Child TNI to Parent TNI for energy volume subtraction
- Match the Child Aggregation Flag to Parent Aggregation Flag for energy volume subtraction
- Apply the above segments first when subtracting on-market child NMIs will be subtracted from the parent net energy (parent - child)

Participants can still use the RM16 report to reconcile Settlement Statements but cannot easily reconcile against RM 21 and 27 without performing the Embedded Network parent calculations first.

Embedded Network Child Connection Points with a different TNI Code than the Parent Connection Point see a change in the altered energy volumes applying to each TNI.

# 5.2 RM37 - High Priority Missing Data

There are no structural changes to the report, and it includes the most current **NCC changes**.

### 5.3 RM43 - UFE Factor Values by Local Area

The UFE Factor is calculated using Adjusted Consumed Energy (ACE). See RM46 - UFE Validation Report for the calculation method.

### 5.4 RM46 - UFE Validation Report

This report uses UFE data where the calculation does not change. However, the following terminology is updated:

- ADME is the aggregate of the amounts represented by (ME- × DLF) and (ME+ × DLF)
- ADMELA is the aggregate of the amounts represented by (ME- × DLF)

Where:

- ME- is the amount of electrical energy, expressed as a negative value in MWh, flowing at the connection point in the trading interval. It is recorded in the metering data in respect of that connection point and that trading interval, where the flow is away from the transmission network connection point to which the connection point is assigned.
- ME+ is the amount of electrical energy, expressed as a positive value in MWh, flowing at the connection point in the trading interval. It is recorded in the metering data in respect of that connection point and that trading interval, where the flow is towards the transmission network connection point to which the connection point is assigned.

# 6 FAQs

#### Are NMI Classification Codes (NCC) updated for existing NMIs in MSATS?

Yes, the NCC updates to change distribution-connected generating systems (and the generation side of distribution-connected storage) from GENERATR to DGENRATR will be performed using the Bulk Change Tool (BCT) which sends BCT notifications to participants with affected NMIs. For example, BC01.

#### Is there a change to CATS participant roles?

There are no changes to the CATS Participant Roles since Integrated Resource Provider (IRP) is a FRMP role.

The Role Category field was introduced to identify FRMPs registered as a Market Stand-Alone Power System Resource Provider (MSRP) and Small Generator Aggregator (SGA). This will be updated to support identification of IRPs as described in section 3.1.

# 7 Implementation

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.

Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

# 7.1 Key considerations

See Participant Impact.

### 7.2 Upgrade options

#### 7.2.1 Option 1

Update local processes and technical interfaces to suit the changes.

#### 7.2.2 Option 2

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

#### 7.3 Risks

Risk is low as all changes are on AEMO's systems.

# 8 Terms

You can find the following terms defined in the National Electricity Rules (NER) or Retail Electricity Market Glossary and Framework

# 8.1 Rules and procedure terms

| Term  | Term                                      | Term                                    |
|---|---|---|
| AEMO  | Load                                      | Participant ID                          |
| B2B   | Local Network Service<br>Providers (LNSP) | Participant User                        |
| Bidirectional Unit (BDU)                              | Market                                    | Registered Participant                  |
| CATS Procedures                                       | Market Generator                          | Retail                                  |
| Change Request  | Market Participant                        | Retail Load                             |
| Child Connection Points                               | Meter                                     | Role                                    |
| Connection Point                                      | Metered Energy (ME)                       | Scheduled Bidirectional Unit            |
| Embedded Network (EN)                                 | MSATS                                     | Scheduled Generating Unit               |
| Embedded Network Child                                | MSATS Procedures                          | Scheduled Load                          |
| Embedded Network Parent                               | NEM                                       | Settlement Statements                   |
| Energy  | NER                                       | Small Bidirectional Unit<br>(Small BDU) |
| Financially Responsible<br>Market Participants (FRMP) | NMI                                       | Small Generating Unit (SGU              |
|   |   |   |
| Generating System                                     | NMI Standing Data                         | Standing Data Access Rules              |
| Integrated Resource Provider<br>(IRP)                 | Non-scheduled Bidirectional<br>Unit       | TNI Code                                |
| Integrated Resource System (IRS)                      | Parent Connection Points                  | Transmission Network                    |
|   |   | Validation                              |

Participant Administrator (PA)

# 8.2 Glossary

| Abbreviation/T<br>erm | Explanatio<br>n  |
|-----------------------|--|
| BESS                  | Battery<br>Energy<br>Storage<br>System                       |
| NCC                   | NMI<br>Classificati<br>on Code                               |
| Release               | MSATS -<br>Technical<br>Specificati<br>on – June<br>2024     |
| Release Dates         | Pre-<br>production<br>: Tuesday                              |
|                       | 12 March<br>2024<br>Production<br>: Monday<br>13 May<br>2024 |
| TBC                   | 2024<br>Production<br>: Monday<br>13 May                     |

# 9 Referenc

# es

API Reference: 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.

#### Connecting to AEMO's Electricity IT systems:

Explains the IT interfaces available for participants and how to connect to them.

#### Guide to CSV Data Format Standard:

Describes the generic csv (commaseparated-variables) data format standard used in numerous interfaces in AEMO's energy market systems, including some csv payloads.

#### **Guide to MSATS reports**:

Explains the purpose, attributes, request, and delivery methods for MSATS participants' retail reports.

#### **Guide to MSATS Web**

**Portal**: Assists participants to use the MSATS web portal functions. Requires MarketNet access.

#### **Guide to NEM Retail**

**B2M APIs**: Explains how to build B2M retail metering APIs.

# Guide to User Rights

Management: Assists Participant Administrators (PAs) to use the user rights management functions in the MSATS Web Portal.

#### Metering Installation Exemption Guideline:

Application process and management of an application.

#### **MSATS Procedures**:

Current and previous electricity retail procedure versions.

#### **Standing Data for**

**MSATS**: Describes the data requirements for the CATS database elements stored for each NMI with relevant examples and definitions.

#### **Technical Guide to**

**MSATS**: Supplement to the MSATS B2M policies, procedures, and guides providing an understanding of MSATS functionality and business rules.

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# A1. Version History

# V1.02

- Additional information in New MSATS Role Categories for IRPs and Small Resource Aggregators
- Updated Change Request Processing table
- Additional information in NMI Classification Codes (NCC)

# V1.01

- Added FAQs
- Additional information in NMI Classification Codes (NCC)
- Updated timeline dates

# V1.00

Included the pre-production refresh information

# V0.01

Initial draft release