

Retail Electricity Market Procedures – Glossary and Framework

Prepared by: AEMO Reform Delivery

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Current version release details

Version	Effective date	Summary of changes
4.32	2 June 2024 15 November 2024	Consolidated versions 4.0 and 4.1 as part of Retail Electricity Market Procedures June 2024 Consolidation Consultation. Updated with changed related to CATS and WIGS Procedures amalgamation.

Note: There is a full version history at the end of this document.

1. Introduction

1.1. Purpose and scope

This document is provided to assist users of the Retail Electricity Market Procedures in understanding the overall framework within which they operate and also contains a dictionary of terms used in the Retail Electricity Market Procedures.

This document forms part of each of the Retail Electricity Market Procedures and will be amended when another Retail Electricity Market Procedure requires amendment. The consultation process applicable to the relevant Retail Electricity Market Procedure will also apply to the necessary amendments to this document.

This document also fulfils AEMO's obligation under clause 7.16.1(f) of the NER and includes a list of procedures authorised under Chapter 7 of the NER and all supporting documentation.

1.2. Definitions and interpretation

1.2.1. Glossary

Where a defined term is used only in one Retail Electricity Market Procedure, that term will be defined in that Retail Electricity Market Procedure.

Capitalised words, phrases and abbreviations that are used in more than one Retail Electricity Market Procedure are set out in section 6 and have the meanings set out opposite them when used in this document and the Retail Electricity Market Procedures.

Italicised terms used in the Retail Electricity Market Procedures have the same meanings given to those terms in the National Electricity Rules (**NER**) unless otherwise specified.

1.2.2. Business Documents & Business Signals in B2B Procedures

- (a) Business Documents, such as 'ServiceOrderRequest', are indicated by underlining and upper camel case.
- (b) Business Signals, such as 'BusinessReceipt' are indicated by underlining, upper camel case and italics.
- (c) Fields within a Business Document or Business Signal are indicated by upper camel case and italics. For example: 'ServiceOrderType'.

1.2.3. Interpretation

The following principles of interpretation apply to the Retail Electricity Market Procedures unless expressly indicated otherwise:

- (a) This document and the Retail Electricity Market Procedures are subject to the principles of interpretation set out in Schedule 2 of the *National Electricity Law*.
- (b) The NER prevails over this document and the Retail Electricity Market Procedures to the extent of any inconsistency.
- (c) The MSATS Procedures prevail over the B2B Procedures to the extent of any inconsistency.

- (d) References to time in:
 - (i) Retail Electricity Market Procedures (except for *B2B Procedures*) are to Eastern Standard Time; and
 - (ii) *B2B Procedures* refer to the time applicable at the Site to which a B2B Transaction relates (local time).
- (e) The expressions ‘within one Business Day’ or ‘next Business Day’ in B2B Procedure: Service Order Process mean by 11:59pm on the next Business Day.
- (f) References to currency are to Australian dollars.
- (g) Diagrams are provided as an overview. In case of ambiguity between a diagram and the text of this document, the text will prevail over any diagram.

1.3. Related documents

Title	Table text
B2B Guide	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure: Customer and Site Details Notification Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure: Meter Data Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure: One Way Notification Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure: Service Order Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure: Technical Delivery Specification	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
MSATSCATS and WIGS Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions
Default and Deregistration Procedure	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Accreditation-and-Registration
Exemption Procedure – Metering Installation Data Storage Requirements	https://aemo.com.au/-/media/files/electricity/nem/retail_and_metering/metering-procedures/2021/exemption-procedure-data-storage-requirements.pdf?la=en
Exemption Procedure – Metering Installation Malfunctions	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Guide to the Role of Metering Coordinator	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Accreditation-and-Registration
Guidelines for the Clarification of the	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metrology-Procedures-and-Unmetered-Loads

Title	Table text
National Measurement Act	
MDFP Specification	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
MDM Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions
MDM File Format and Load Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Metering Installation Exemption Guideline	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Metering Data Provision Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Metrology Procedure: Part A	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metrology-Procedures-and-Unmetered-Loads
Metrology Procedure: Part B	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metrology-Procedures-and-Unmetered-Loads
NEM RoLR Processes	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions
NMI Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Qualification Procedure	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Accreditation-and-Registration
Service Level Procedure (ENM)	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Service Level Procedure (MDP)	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Service Level Procedure (MP)	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
List of Special and Technology Related Sites	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Unmetered Load Guideline	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metrology-Procedures-and-Unmetered-Loads
WIGS Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions

2. Framework

2.1. The Role of the Retail Market in the NEM

The physical production of electricity is carried out using various technologies and transported through high voltage *transmission lines* to *distribution networks* that operate at *low voltage* and deliver electricity to End Users at the required *voltage*.

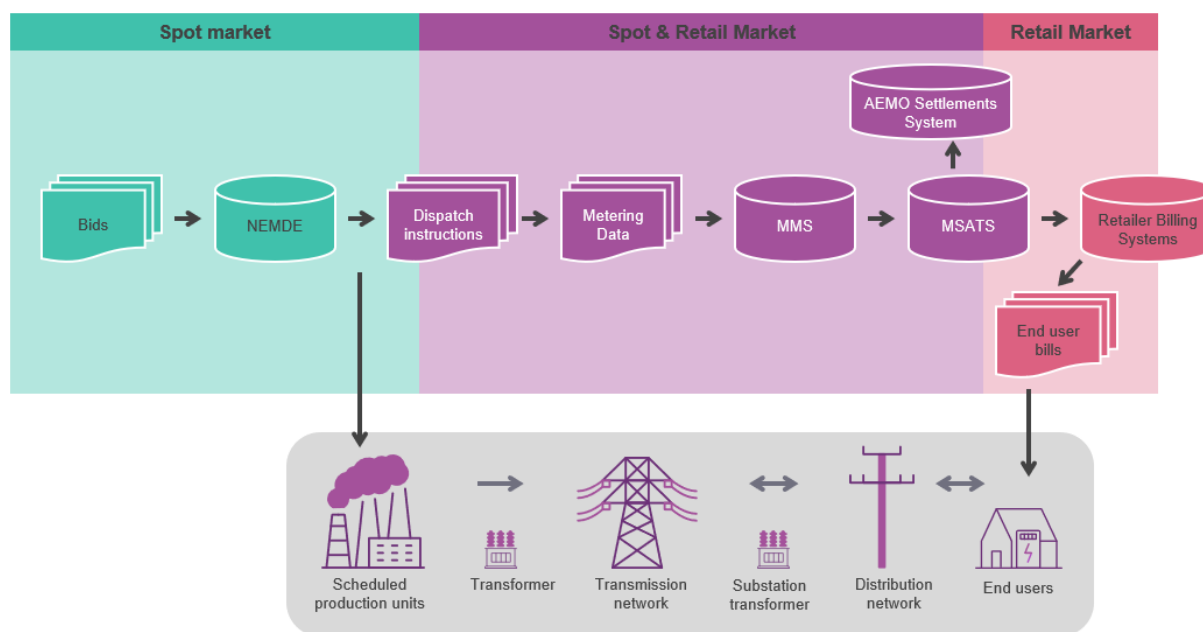
In financial terms, *Generators* who produce electricity in the *NEM* are required to sell their output through the *spot market* operated by AEMO (the *NEM* is a wholesale market). *Retailers*, referred

to as *Market Customers* in the *spot market*, purchase this electricity from the *spot market* and then sell it to End Users.

Full retail contestability prevails throughout the *NEM*, which means that any End User can purchase electricity from a *retailer* of their choice. For this to work, however, it is necessary to have processes and systems that facilitate an orderly transfer of End Users from one *retailer* to another, and to ensure that payment streams are not disrupted. This is the function of the retail market.

The retail market processes and systems are designed to operate alongside the *spot market* processes. Figure 1 contains a high-level view (but by no means comprehensive) of these processes and systems.

Figure 1 High Level View of the Retail Electricity Market Processes



2.2. Structure of Retail Electricity Market Procedures

In this document, ‘Retail Electricity Market Procedures’ refers to a number of procedures that govern the operation of the retail market.

Figure 2 depicts how the Retail Electricity Market Procedures fit together. A fuller description follows.

Figure 2 — Retail Electricity Market Procedures

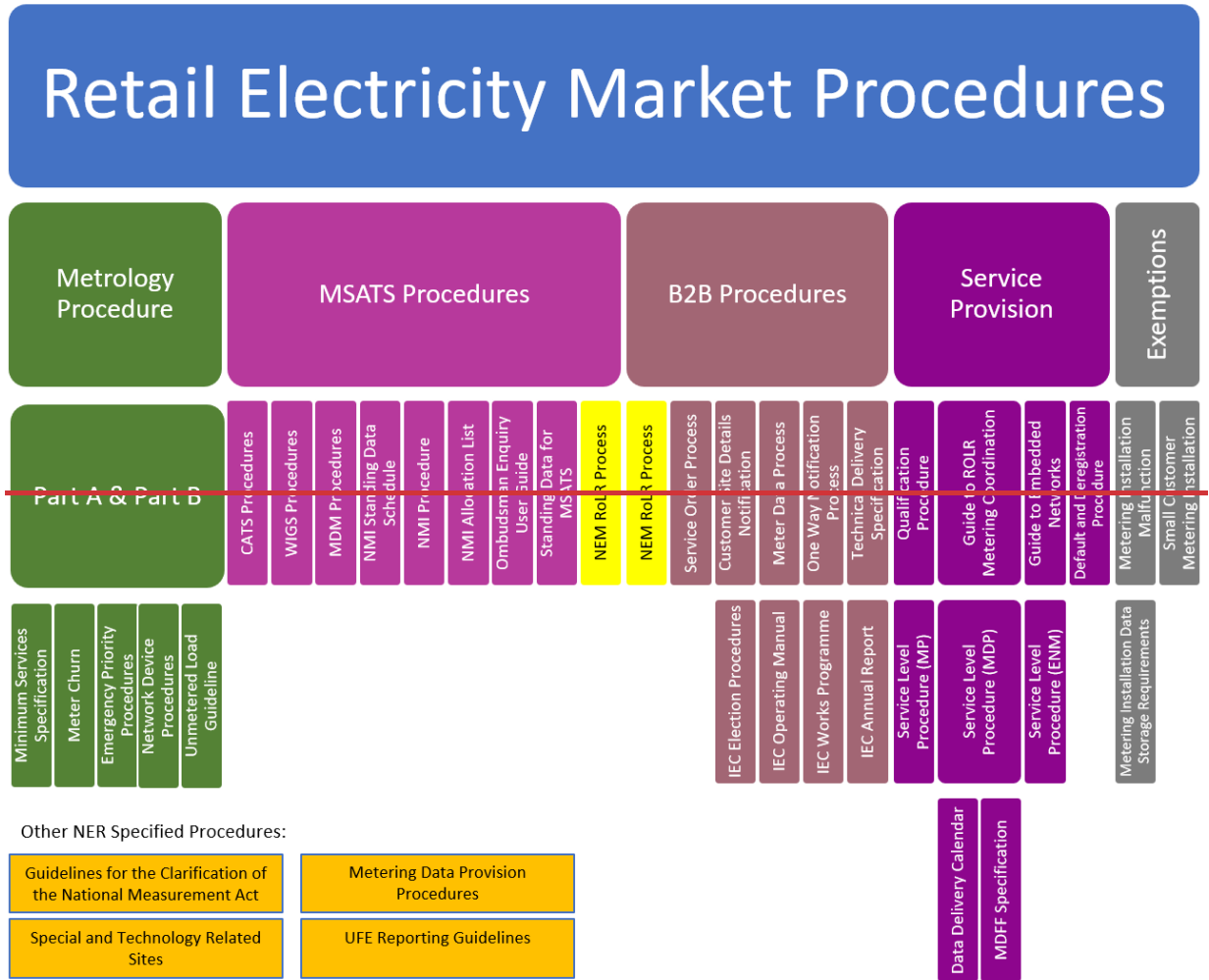
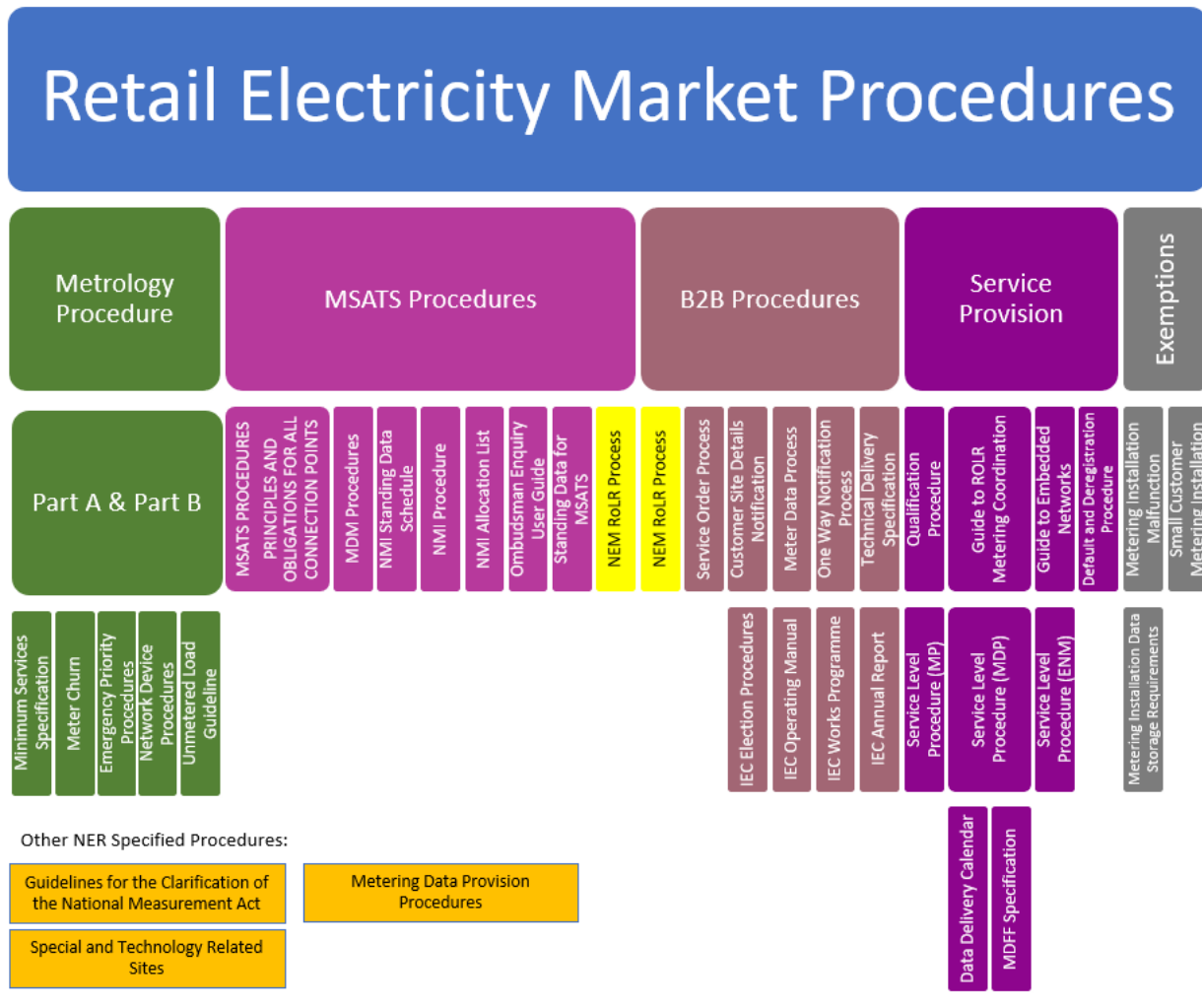


Figure 2



2.3. Metrology Procedure

The *metrology procedure* is made in accordance with clauses 7.16.3, 7.16.4 and 7.16.5 of the NER and it is *published* in two parts, namely:

- Metrology Procedure: Part A National Electricity Market; and
- Metrology Procedure: Part B Metering Data Validation, Substitution and Estimation Procedure.

Clause 7.16.3 prescribes the mandatory content, whereas clause 7.16.5 details additional matters that may be addressed in the *metrology procedure*. Clause 7.16.4 details the process by which AEMO may include *jurisdictional metrology material* in the *metrology procedure*, which only applies to type 5, 6 and 7 *metering installations*.

2.3.1. Metrology Procedure: Part A

For convenience, the following procedures under the NER have been included in the Metrology Procedure: Part A:

- procedures relating to the *minimum service specification* under clause 7.8.3(b) of the NER;
- *meter churn procedures* under clause 7.8.9(f) of the NER;

- procedures relating to *network devices* under clause 7.8.6(i) of the NER; and *emergency priority procedures* under 7.8.5(b) of the NER.

2.3.2. Metrology Procedure: Part B

The Unmetered Load Guideline, *published* separately from Metrology Procedure: Part B is not the subject of consultation under the NER. It details the process by which the Load Table is updated.

This document is not subject to consultation under the NER.

2.4. MSATS Procedures Suite

MSATS is a system operated by AEMO to fulfil its obligations under the NER. CATS is a part of MSATS.

The MSATS Procedures:

- facilitate and support an efficient process for the:
 - provision and maintenance of CATS Standing Data;
 - discovery of approved *NMI Standing Data*;
 - transfer of End Users between *retailers*;
 - registration of *metering installations*;
 - *settlements* and the administration of *NMIs*; and
- define the roles and obligations of Participants and AEMO.

The MSATS Procedures are made under clause 7.16.2 of the NER and are *published* as separate documents along functional lines.

2.4.1. ~~CATS and WIGS~~MSATS Procedures - Principles and Obligations ~~for all the Management of Connection Points~~

The ~~MSATSCATS~~ Procedures apply to End User transactions. ~~The WIGS Procedures apply and to wholesale, interconnector, integrated resource system, bulk supply, cross boundary and generation connection points and sample data used in settlements.~~

~~2.4.2. WIGS Procedures~~

~~The WIGS Procedures apply to wholesale, interconnector, integrated resource system, bulk supply, cross boundary and generation connection points and sample data used in settlements.~~

2.4.3. ~~2.4.2.~~ MDM Procedures

The MDM Procedures detail the management of *metering data* within MSATS in order to facilitate:

- the implementation of the *metrology procedure* into AEMO's operational procedures;
- efficient processes for:

- Transfer of data for *market* purposes;
- Calculation and management of profiles;
- Conversion of Meter Readings to TI data for *settlements*; and
- Reconciliation of Participant data.

[2.4.4.2.4.3. NMI Standing Data Schedule](#)

This document is *published* under clauses 3.13.12 and 3.13.12A of the NER. It details the data items that make up the *NMI Standing Data*.

[2.4.5.2.4.4. NMI Procedure](#)

This document addresses the matters contemplated in clauses 7.8.2(d)(2), and 7.8.2(ea)(3) of the NER. It sets out the structure of *NMIs*, the process under which they are allocated, and is *published* as an MSATS Procedure under clause 7.16.2 of the NER.

[2.4.6.2.4.5. Ombudsman Enquiry User Interface Guide](#)

AEMO, acting jointly with each *energy ombudsman*, is required by clause 7.11.1(k) of the NER to develop procedures for the efficient management of timely access to data by an *energy ombudsman*.

[2.4.7.2.4.6. Standing Data for MSATS](#)

This document provides a detailed description of the data items populated in the MSATS *NMI Standing Data* tables and contains information on the type of data, a brief description of each data item and whether the input of that data is mandatory.

[2.4.8.2.4.7. NEM RoLR Procedures](#)

Although the *RoLR Procedures* are prescribed under the National Energy Retail Law (**NERL**), they are, in fact, made up of obligations that form part of the MSATS Procedures and the *B2B Procedures* and so are made under clause 7.16.2 and clause 7.17.2(i) of the NER. AEMO has consolidated all requirements arising out of a RoLR Event into a document entitled: NEM RoLR Processes and for the purposes of clarity, delineates which parts are made under which part of the NER.

2.5. B2B Procedures

B2B Procedures are developed and *published* in accordance with clause 7.17.2(i) of the NER. As permitted by clause 7.17.4(g) of the NER, they are as follows:

- B2B Procedure: RoLR Process
- B2B Procedure: Service Order Process
- B2B Procedure: Customer and Site Details Notification Process
- B2B Procedure: Meter Data Process
- B2B Procedure: One Way Notification Process.

- B2B Procedure: Technical Delivery Specification

The *Information Exchange Committee* is also required to develop the following documents relating to its operations that AEMO is required to *publish* under clause 7.17.2 of the NER, as follows:

- IEC Election Procedures
- IEC Operating Manual
- IEC Works Program
- IEC Annual Report

2.6. Service Provision

2.6.1. Qualification Procedure

The NER require AEMO to have a qualification process for the accreditation and registration of MPs, MDPs and ENMs. As the process is identical for each role, it is consolidated into one document.

2.6.2. Guide to the Role of Metering Coordinator

AEMO is required to *publish* relevant explanatory material setting out the role of the MC under clause 7.3.1(c) of the NER.

2.6.3. Guide to Embedded Networks

AEMO is required to *publish* a guide to *embedded networks* under clause 7.16.6B of the NER and provides information on:

- the nature of exemptions granted by the *AER* in respect of *embedded networks*;
- which *retailers* and other persons can sell electricity to End Users supplied with electricity through *embedded networks*; and
- the roles, responsibilities and obligations of ENMs under the NER and procedures under the NER.

2.6.4. Default & Deregistration Procedure

AEMO is required to have a default and deregistration procedure for:

- MPs, MDPs and ENMs under clause 7.4.4 of the NER; and
- MCs under clause 7.7.3 of the NER.

The processes involved are almost identical, so they are documented in the one procedure. Key differences in the treatment of different types of default are highlighted.

Where an MP, MDP, ENM or MC's performance fails to meet the NER, relevant procedures under the NER, or *service level procedures* (in the case of MPs, MDPs or ENMs), this document details how AEMO will address the breach and the consequences to the MP, MDP, ENM or MC of failing to rectify the breach.

2.6.5. Metering Service Level Procedures

There are two *service level procedures*: one for MPs and one for MDPs, both made under clause 7.16.6 of the NER.

Service Level Procedure - Metering Provider

The Service Level Procedure (MP) details the obligations, technical requirements, measurement processes and performance requirements to be met by MPs in the provision, installation and maintenance of *metering installations*.

Service Level Procedure - Metering Data Provider

The Service Level Procedure (MDP) details the obligations, technical requirements, measurement processes and performance requirements to be met by MDPs in the provision of *metering data services* for all *metering installation* types and the maintenance of a *metering data services database*.

AEMO has *published* two additional documents to facilitate the timely and accurate provision of *metering data*. These are:

- **Data Delivery Calendar** – a document that lists the dates on which specified actions need to occur for the provision of *metering data* and *settlements ready data* to AEMO.
- **MDFF Specification** – a document specifying the MDFF for *interval metering data* (NEM12 File) and *accumulated metering data* (NEM13 File).

2.6.6. Service Level Procedure - Embedded Network Managers

The Service Level Procedure (ENM) is *published* under clause 7.16.6A of the NER and it details the obligations, technical requirements and performance requirements to be met by ENMs in the provision of *embedded network management services*.

2.6.7. Exemptions

(a) Exemption Procedure – Metering Installation Malfunctions

AEMO is required to *publish* this procedure under clause 7.8.10 of the NER. The procedure documents the process an MC must follow when seeking exemption from the requirement to repair a *metering installation malfunction* within the timeframe imposed by the NER.

(b) Exemption Guideline (Small Customer Metering Installation)

AEMO may exempt an MC from the requirement to install a type 4 *metering installation* that meets the *minimum services specification* in accordance with clause 7.8.4 of the NER.

Although there is no obligation to *publish* this procedure, AEMO has determined it would be beneficial for Participants to know the process and grounds on which AEMO may grant the exemption.

This Guideline is not subject to consultation under the NER.

(c) Exemption Procedure – Metering Installation Data Storage Requirements

AEMO is required to publish this procedure under clause 7.8.2(a1) of the NER. This Procedure sets out the process by which a Current MP may apply for an exemption from complying with the requirements of NER clause 7.8.2(a)(9) for the storage of interval energy data for the following metering installations installed before 1 July 2021.

2.7. Other NER Specified Procedures

2.7.1. Special Sites and Technology Related Conditions within the National Electricity Market

AEMO may determine under clause 7.8.2(a) of the NER that special arrangements are required to support the integrity of the collection and processing of *metering data* from nominated

metering installations and is required by clause 7.8.12(c) to describe and *publish* those Special Sites, including the nomination of *metering installations* affected by those conditions.

AEMO has *published* the Special and Technology Sites Document to fulfil this requirement.

2.7.2. Guidelines for the Clarification of the National Measurement Act

AEMO is required by clause 7.16.8 of the NER to establish guidelines that clarify the application of the requirements of the National Measurement Act 1960 (Cth) to *metering installations*.

- (a) These guidelines have been developed in consultation with the National Measurement Institute and are published on AEMO's website. Metering Data Provision Procedures
- (b) AEMO is required to publish these procedures in accordance with clause 7.14(a) of the NER. These procedures establish the minimum requirements for the manner and form in which metering data should be provided to a retail customer (or its customer authorised representative) in response to a request from that retail customer or its customer authorised representative to the retailer or the DNSP. UFE Reporting Guidelines

2.7.3. Metering Data Provision Procedures

AEMO is required to *publish* these procedures in accordance with clause 7.14(a) of the NER. These procedures establish the minimum requirements for the manner and form in which *metering data* should be provided to a *retail customer* (or its *customer authorised representative*) in response to a request from that *retail customer* or its *customer authorised representative* to the *retailer* or the DNSP.

2.8. Use of RP

Although the Role of RP, or '*responsible person*', has been replaced with the *Metering Coordinator*, the code used in MSATS will remain as 'RP'.

The term 'MC' is used in the Retail Electricity Market Procedures to identify the *Metering Coordinator*; where reference is made to the code used in MSATS, 'RP' will be used, instead.

2.9. Use of LNSP to refer to ENM

The acronym 'LNSP' is used as defined in section 4 and as a code in MSATS to refer to the defined term.

In most cases where the MSATS code 'LNSP' is used it means the LNSP as defined in section 4, however, where it is used in the context of an *embedded network*, the same code will be used to refer to relevant ENM.

The term 'ENM' is used in the Retail Electricity Market Procedures to identify the *Embedded Network Manager*. There is no 'ENM' code in MSATS.

2.10. Temporal References to Roles

Roles are used in MSATS transactions in a temporal sense.

The NMI Master Record will always detail the ‘Current’ Roles associated with a *NMI*.

Many transactions involve a change in Role; the Participant that will be taking over a Role following Completion of a Change Request is referred to as ‘New’.

3. B2B Procedures

3.1. Basic Exchange Model

The exchange of B2B Messages is based on following model:

- Initiator initiates *B2B Communication* by sending a Business Document to a Recipient.
- Recipient sends a *BusinessReceipt* to the Initiator.
- Recipient then returns a *BusinessAcceptance/Rejection* to the Initiator to communicate the acceptance or rejection of the Business Document.
- Recipient sends a response to the Initiator.
- Initiator sends a *BusinessReceipt* to the Recipient.
- Initiator then returns a *BusinessAcceptance/Rejection* to the Recipient to communicate the acceptance or rejection of the Business Document.

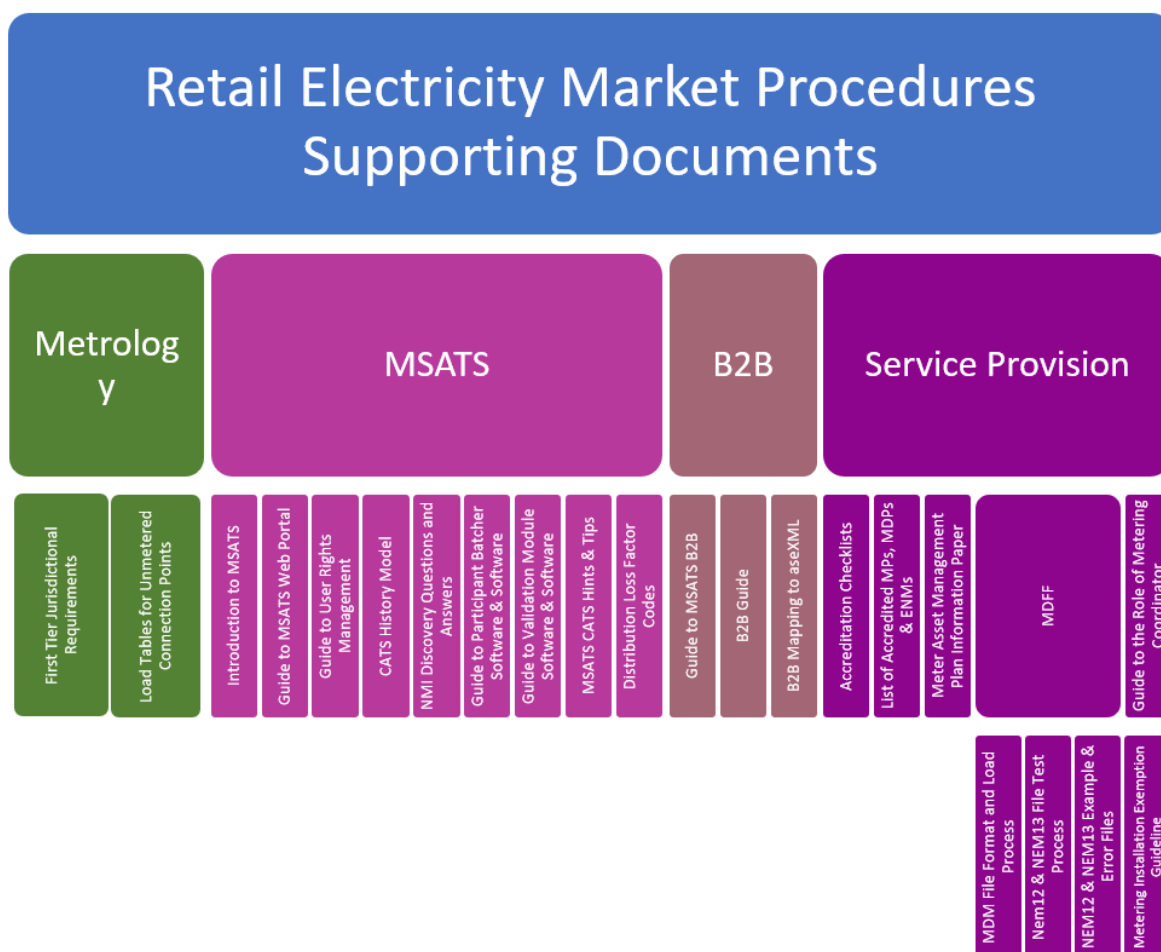
3.2. Diagrams

- (a) Process diagrams adhere to Unified Modelling Language (UML) conventions.
- (b) Diagrams have been provided by way of explanation only and do not indicate binding obligations on Participants.

4. Supporting Documents

In addition to the Retail Electricity Market Procedures, AEMO has *published* a number of documents that explain, or provide additional information to enable Participants to fulfil their obligations under the NER and procedures under the NER. How these fit in with the Retail Electricity Market Procedures is depicted in Figure 3, using the same colour coding for ease of reference:

Figure 3 Supporting Documents



4.1. Metrology

4.1.1. First Tier Jurisdictional Requirements

AEMO is required to publish the First Tier Jurisdictional Requirements under clause 11.20.6 of the NER in consultation with the Jurisdictions. It contains the applicable jurisdictional requirements referred to in clauses 11.20.2, 11.20.3 and 11.20.4 of the NER.

4.1.2. Load Tables for Unmetered Connection Points

As contemplated by section 12.1 of the Metrology Procedure: Part B, AEMO publishes tables of Unmetered Device *market connectionpoints*.

4.2. MSATS

4.2.1. Introduction to MSATS

This document provides an introduction to using the MSATS web portal.

4.2.2. Guide to MSATS Web Portal

This document is a user interface guide for Participant Users of the MSATS web portal.

4.2.3. Guide to User Rights Management

This document is a user interface guide assisting PAs with the user rights management functions available in AEMO's web portals.

4.2.4. CATS History Model

This is a detailed description of how the MSATS data model is used to manage information that changes over time. It is essential reading for business analysts and IT support staff who are involved in managing data interfaces with MSATS.

4.2.5. NMI Discovery Questions and Answers

This document contains hints and tips that will assist Participant Users applying the NMI Discovery function to find the details about a *NMI*. It also contains answers to questions that Participants have asked about the NMI Discovery function.

4.2.6. Guide to Participant Batcher Software & Software

The 'Participant Batcher' software provides a simple batch interface to MSATS and the *B2B e-hub* by permitting Participant Users to deal with the raw .zip files only and its intended audience is Participants' technical and software development staff responsible for systems implementation.

4.2.7. MSATS CATS Hints and Tips

This document provides hints and tips on how to ensure that requests are successfully loaded into MSATS, information on MSATS validations and tips on using MSATS reports. It should be used as an addendum to [CATS and WIGSMSATS Procedures](#).

4.2.8. Distribution Loss Factor Codes

This document provides an explanation of the DLF Codes and the requirements on LNSPs to maintain the DLF values against the DLF Codes in MSATS.

4.3. B2B

4.3.1. Guide to MSATS B2B

This document provides information about the *B2B e-hub* functions available in MSATS.

4.3.2. B2B Guide

This document describes how *B2B communications* are typically used in standard processes in the *NEM*. It aims to provide interested parties with an understanding of how *B2B communications* defined in the B2B Procedures are used in the context of the broader industry scenarios, and to assist participants when forming their respective bilateral/commercial agreements.

4.3.3. B2B Mapping to aseXML

This document maps the Business Documents, Business Signals and business items to aseXML, sometimes including .csv payloads.

4.4. Service Provision

4.4.1. Accreditation Checklists

This document contains the Accreditation Checklists for applicant MPs, MDPs and ENMs, as contemplated by the Qualification Procedure.

Each Accreditation Checklist contains questions the applicants are required to complete as part of the qualification process set out in the Qualification Procedure. They are intended to provide verification of what is required of an applicant through demonstration of systems, processes and procedures that allow AEMO to assess the applicant's application.

4.4.2. List of Accredited MPs, MDPs & ENMs

AEMO publishes an up-to-date list of each accredited MP, MDP and ENM.

4.4.3. Meter Asset Management Plan Information Paper

This document provides assistance to service providers in the establishment of a Metering Asset Management Plan.

4.4.4. MDFF

(a) MDM File Format and Load Process

This document details the MDFF format and load process.

(b) NEM12 & NEM13 File Test Process

This document details various implementation test scenarios required for acceptance of the NEM12 and NEM13 file format specification by MDPs.

(c) NEM12 & NEM13 Example & Error Files

These documents detail various MDP test file-build scenarios, and those examples that have been accepted following the inter-MDP test process and data scenarios that have deliberate file syntax and information errors to assist Participants in the verification and build of MDFF loaders.

4.4.5. Metering Installation Exemption Guideline

AEMO developed this guideline to help participants understand and navigate through the metering installation exemption process in MSATS.

5. GLOSSARY

The Retail Electricity Market Procedures often use common terminology. For ease of reference, all terms in the Retail Electricity Market Procedures are defined in the table below.

For ease of reference:

- Terms and definitions written in blue are used in *B2B Procedures* only.
- Terms and definitions written in green are used in *B2B Procedures* and in one or more other types of Retail Electricity Market Procedures.
- Terms and definitions written in black are used in Retail Electricity Market Procedures other than *B2B Procedures*.

Term	Definition
Accelerate	A process initiated by AEMO to complete In-Progress Change Requests following a RoLR Event, allowing for: <ul style="list-style-type: none"> • Completion of Change Requests that would otherwise require the MDP to submit the Actual Change Date, where that date has not yet been submitted. • Specification of an Actual Change Date (RoLR Effective Transfer Date) to supersede any existing Proposed Change Date or Actual Change Date on the Change Request.
Accept	The situation where a Recipient of a B2B Message has agreed to process it further.
Access Requirements	Site access requirements specified in a Service Order
Accreditation Checklists	The questions an applicant for Accreditation as MDP, MP or ENM must complete to be accredited.
Accumulation Meter	A meter that only measures total electricity use (kWh, MWh) between Meter Readings, and does not record the dates and times when the electricity flows occur. Also known as a ‘basic meter’.
ACMA	Australian Communications and Media Authority.
Actual Change Date	The effective date of changes specified in a Change Request. (It is the same date as the ‘FromDate’ in a C4 Report and the ‘Start Date’ seen on MSATS browser screens that display ‘NMI master data’).
Actual End Date	A date specifying the end of a period when updating existing data in CATS and is only ever specified in a Change Request for a Retrospective Change correcting a past error.
Actual Meter Read Date	The date an Actual Meter Reading is obtained.

Term	Definition
Actual Meter Reading	The <i>accumulated metering data</i> or <i>interval metering data</i> collected from a meter when it is either Manually Read or Remotely Read (as applicable).
Actual Metering Data	<i>Accumulated metering data</i> or <i>interval metering data</i> that has passed Validation without Substitution.
ADL	Average Daily Load: The energy delivered or generation delivered via a datastream over an extended period normalised to a "per day" basis (kWh).
AEMO Communication	An email from AEMO to a distribution list of <i>Registered Participant</i> contacts broadcasting <i>NEM</i> -related information.
Agreed Load	The load, expressed in Watts, that is to be used in the calculation of <i>metering data</i> for <i>non-contestable unmetered loads</i> . This is the load value that has been agreed between LNSP, appropriate FRMP and End User.
Appointment	An agreement between an End User (or their agent), a <i>retailer</i> and a Participant for the Participant to perform requested work at a specified time.
aseXML	A standard to facilitate the exchange of information between Participants in XML.
aseXML Guidelines	Guidelines for the development of a Standard for Energy Transactions in XML (aseXML).
aseXML Schema	Specification used to describe the structure of an aseXML message.
Asset Management Strategy	A strategy for the testing of <i>metering installations</i> submitted by an MC and approved by AEMO under clause S7.6 of the NER.
ASP	<i>Accredited Service Provider</i> to provide connection services in NSW
B2B	Business-to-Business: A generic term used to refer to certain business-to-business interactions between Participants through the <i>B2B e-hub</i> .
B2B Acknowledgement	A generic term used to refer to an aseXML Message or B2B Transaction acknowledgement, within the context of a B2B Interaction. Often referred to as being positive (indicating correctness of the associated file) or negative (indicating an error with the associated file).
B2B Interaction	A complete set of B2B Messages between two Participants involving Business Document, Business Receipt, and Business Acceptance/Rejection .
B2B Mapping to aseXML	A document detailing the specific aseXML interfaces to be used in the implementation of B2B Transactions.
B2B Message	A B2B Transaction or B2B Acknowledgement sent between an Initiator and a Recipient.
B2B Notification	A B2B Transaction that does not have a corresponding reply.
B2B Transaction	An aseXML realisation of a Business Document.
Backup RoLR	As defined in the AER RoLR Guidelines.
BCT	Bulk Change Tool: A component of MSATS used by AEMO to make bulk changes to data without requiring the submission of Change Requests.
BMP	Basic Meter Profiler: The application of <i>profile</i> shape data to <i>accumulated metering data</i> to create half-hourly <i>interval metering data</i> for a Profile Area.
Bulk Supply Point	<i>Connection point</i> where a <i>transmission network</i> connects to a <i>distribution network</i> .
Bundling	A function in MSATS whereby AEMO 'bundles' Change Requests. This means that instead of sending Change Requests as individual XML messages containing a single transaction, many can be bundled into a single XML message (one message, with multiple transactions, in a single file).
Business	As defined in the <i>NERL</i> .
<u>BusinessAcceptance</u>	A Business Signal indicating acceptance.

Term	Definition
Business Day	Any weekday other than public holidays applicable to the Site to which a B2B Transaction applies.
Business Event	The reason for the acceptance or rejection of a B2B Transaction.
Business Document	The transaction that contains the business content for: <ul style="list-style-type: none"> • MeterDataNotification • ProvideMeterDataRequest • VerifyMeterDataRequest • ServiceOrderRequest • ServiceOrderResponse • CustomerDetailsNotification • CustomerDetailsRequest • SiteAccessNotification • OneWayNotification • PlannedInterruptionNotification • MeterFaultandIssueNotification • NoticeOfMeteringWorksTransaction • NotifiedPartyTransaction
Business Group	A group of Participant companies (each with their own Participant IDs) that are part of a single commercial enterprise.
Business Hour	A period of one hour within a <i>business day</i> .
Business Hours	Normal operating hours for a Participant
BusinessReceipt	A Business Signal indicating that a Business Document has been received and is readable.
BusinessRejection	A Business Signal indicating that a Business Document failed a relevant business rule validation.
Business Signal	A response generated by a Recipient upon receipt of Business Document to indicate whether a Business Document: <ul style="list-style-type: none"> • has been received and is readable (BusinessReceipt); or • is accepted or rejected by the Recipient (BusinessAcceptance/Rejection).
C4 Report	An MSATS report that contains current CATS Standing Data for one or more NMI's.
Cancel	A ServiceOrderStatus indicating that the Service Order was cancelled.
Cancelled or CAN	A status point of a Change Request.
Category A	A category of MP accredited to install whole current <i>meters</i> of a manually read <i>metering installation</i> only.
Category B	A category of MP accredited to provide, install and maintain a <i>metering installation</i> .
Category C	A category of MDP accredited to collect <i>metering data</i> from manually read <i>metering installations</i> only.
Category D	A category of MDP accredited to provide <i>metering data services</i> related to the collection, processing, storing and delivery of <i>metering data</i> .
CATS	Consumer Administration and Transfer Solution, a part of MSATS.
CATS and WIGS Procedures	The AEMO document entitled: MSATS Procedures: CATS and WIGS Procedure Principles and Obligations
CATS Standing Data	The data held in the following database tables: <ul style="list-style-type: none"> • CATS_NMI_Data_Stream • CATS_NMI_Data • CATS_Meter_Register • CATS_NMI_Participants_Relationships

Term	Definition
	<ul style="list-style-type: none"> CATS_Register_Identifier <p><i>NMI Standing Data</i> is a sub-set of the CATS Standing Data.</p>
CATS Standing Data Access Rules	The rules specifying which of the CATS Standing Data may be accessed, as specified in section 1716.3.3 of the CATS and WIGSMSATS Procedures .
Change Reason Code	A code that identifies a type of Change Request. It defines rules such as what <i>NMI</i> information can be updated and which Roles will receive a Change Request Notification each time the Change Request Status is updated.
Change Request	A transaction submitted by a Participant into MSATS whenever it wants to create or update data held within MSATS. Change Requests have numbers and are commonly referred to as CR [number].
Change Request Notification	A notification generated by MSATS and provided to one or more Participants as a consequence of a change of status of a Change Request.
Change Request Status	Nominated status points in the life cycle of a Change Request.
Change Request Status Notification Rules	Rules that specify which Roles are to be advised when a Change Request undergoes a change in status as described in the CATS and WIGSMSATS Procedures for each Change Reason Code.
Child Name	The Embedded Network Code populated in the 'EMBNETCHILD' field in MSATS for a Child <i>NMI</i> to indicate that the <i>NMI</i> is a child for a specified <i>embedded network</i> .
Child NMI	The <i>NMI</i> assigned to a <i>child connection point</i> .
CLP	Controlled Load Profile; a type of load <i>profile</i> calculated in accordance with the <i>metrology procedure</i> .
Completed or COM	When used in the MSATS Procedures: One of the status points of a Change Request. When used in the B2B Procedures: A <i>ServiceOrderStatus</i> indicating that the <i>Primary Work</i> is completed.
Connection Date	The date the <i>connection point</i> is connected to a <i>network</i> .
Controlled Load	<i>Load</i> that is controlled by a process or mechanism, which includes the <i>metering installation</i> or a network device and may be separately metered from the remaining <i>load</i> at a <i>metering point</i> . Examples of controlled load devices include a frequency injection relay or time clock. The majority of Controlled Loads are associated with off-peak hot water, pool pumps and air conditioning units.
Controlled Unmetered Device	An Unmetered Device that has a predictable <i>load</i> and is switched in accordance with an On/Off Table (e.g. street lighting).
Cooling-Off Period	<ul style="list-style-type: none"> In the <i>NEM</i>, apart from Victoria: As defined in the <i>NERR</i>. In Victoria: As defined in the Energy Retail Code published by the Essential Services Commission of Victoria.
CSV	Comma Separated Values; a file format for data using commas as delimiters.
CSVNotificationDetail	Is a defined data payload applicable only for some transactions in the <i>One Way Notification Procedure</i> .
CT	<i>Current transformer</i>
Current [Participant/Role]	See section 2.11.
Customer and Site Details	The data elements identified in a <i>Customer and Site Details Notification</i> .
Customer and Site Details Changes	A change to one or more data elements identified in a <i>Customer and Site Details Notification</i> .
Customer Classification Code	A code used in MSATS to determine the classification of an End User. See section 4.6.154 of the CATS and WIGSMSATS Procedures for further information.
Customer Threshold Code	A code used in MSATS to determine the consumption for an End User at a single <i>connection point</i> .

Term	Definition
	See section 4.65.2 of the CATS and WIGSMSATS Procedures for further information.
Data Delivery Calendar	The AEMO document entitled: Data Delivery Calendar.
Data Request	A transaction initiated by MSATS and sent to a Participant at the Pending Validation status of the Change Request life cycle.
Datastream	A stream of <i>metering data</i> associated with a <i>connection point</i> as represented by a <i>NMI</i> . A <i>NMI</i> can have multiple Datastreams (e.g. from one or more <i>meters</i> , or from one or more channels or registers that comprise a single <i>meter</i>). Each Datastream is identified by a unique suffix associated with the <i>NMI</i> to which it belongs.
Datastream Status Code	A code used in MSATS to indicate whether a Datastream is to be used in <i>settlements</i> . See section 4.76.2 of the CATS and WIGSMSATS Procedures.
Default and Deregistration Procedure	The AEMO document entitled: Default and Deregistration Procedure: Metering Providers, Metering Data Providers, Embedded Network Managers and Metering Coordinators.
DLF	<i>distribution loss factor</i>
DLF Code	A code used in MSATS to identify a <i>distribution loss factor</i> .
DNSP	<i>Distribution Network Service Provider</i>
DPID	Delivery Point Identifier: A unique identifier assigned and used by Australia Post as a numeric descriptor for a postal address.
DRSP	<i>Demand Response Service Provider</i>
EENSP	<i>Exempt Embedded Network Service Provider</i> . Referred to as an Embedded Network Operator by the AER. For the purposes of the Retail Electricity Market Procedures, references to an EENSP can be taken to mean the Embedded Network Operator.
Embedded Network Code	A code used in MSATS to identify an <i>embedded network</i> .
Embedded Network Local Retailer	See ENLR
End User	A person who acquires electricity for consumption purposes.
ENLR	<i>Local Retailer for a child connection point. Must be the FRMP of the Parent NMI</i>
ENM	<i>Embedded Network Manager</i>
Estimated Reading	An estimate of a Meter Reading where an Actual Meter Reading for a period in the past is not available.
Estimation	The forward estimation of <i>metering data</i> .
Exemption Guideline	The AEMO document entitled: Exemption Guideline (Small Customer Metering Installation).
Exemption Procedure	The AEMO document entitled: Exemption Procedure – Metering Installation Malfunctions.
Explicit Informed Consent	<ul style="list-style-type: none"> In the <i>NEM</i>, apart from Victoria: As defined in the <i>NERL</i>. In Victoria: As defined in the Energy Retail Code published by the Essential Services Commission of Victoria.
Failed Retailer	A <i>retailer</i> that is the subject of a RoLR Event.
Field Validation Rules	These rules specify for each Change Reason Code, which fields in MSATS need to be populated at creation of a transaction or at other times in the life cycle of a transaction.
Final Reading	The last Actual Meter Reading taken where: <ul style="list-style-type: none"> an End User: <ul style="list-style-type: none"> vacates an address; or changes <i>retailer</i>; or

Term	Definition
	<ul style="list-style-type: none"> all or any part of a <i>metering installation</i> is: <ul style="list-style-type: none"> removed; or modified and the modification affects the <i>energy data</i> in the <i>metering installation</i>.
First Tier NMI	The <i>NMI</i> associated with a First-Tier Load.
First-Tier Load	For the purposes of the Retail Electricity Market Procedures, the <i>load</i> at a <i>connection point</i> where the electricity is purchased directly and in its entirety from the <i>Local Retailer</i> , even if it has not been classified as a <i>first-tier load</i> under Chapter 2 of the NER.
FRMP	<i>financially responsible Market Participant, usually a retailer, Generator, Market Customer, Integrated Resource Provider or a Small Resource Aggregator, identified as such in respect of a connection point in MSATS.</i>
Good Industry Practice	In relation to any undertaking and any circumstances, the exercise of that degree of skill, diligence, prudence and foresight that would reasonably and ordinarily be expected from a skilled and experienced operator engaged in the same type of undertaking under the same or similar circumstances.
Historical Data	<i>Metering data</i> that has been provided for a previous reading period
HV	<i>High voltage.</i>
HV CT	<i>High voltage current transformer</i>
ILAC	International Laboratory Accreditation Cooperation.
Initiate	The first of the status points of a Change Request.
Initiation Rules	As described in section 4.5 of the GATS and WIGSMSATS Procedures, the rules that specify who can initiate a Change Request in MSATS.
Initial MC	A term used to describe a type of MC as defined in NER Chapter 11 Clause 86.7(a)
Initiator	<i>The Participant who initiates a B2B Interaction.</i>
Insolvency Official	An official appointed in respect of a <i>retailer</i> or any property of the <i>retailer</i> and includes a receiver, receiver and manager, administrator, provisional liquidator, liquidator, trustee in bankruptcy or person having a similar or analogous function.
Interval	Period over which <i>interval energy data</i> is recorded by the <i>metering installation</i> that corresponds to a TI or submultiples of a TI.
Interval Meter	A <i>meter</i> that records <i>interval energy data</i> . It is manually read, or remotely read using a communications network.
Inventory Table	A table of devices for unmetered <i>loads</i> associated with each <i>NMI</i> as described in sections 13.2.2, 13.3.2 and 13.5.2 of Metrology Procedure: Part B.
Jurisdiction	<i>participating jurisdiction</i>
Jurisdiction Code	A code used in MSATS to identify the Jurisdiction to which a <i>NMI</i> belongs and as specified in section 4.32 of the GATS and WIGSMSATS Procedures.
LCCD	Last Consumer Change Date. The date a consumer starts or ends as the account holder for a premises.
Life Support	A situation where an End User relies on electricity for the operation of 'life support equipment', a term defined in: <ul style="list-style-type: none"> the <i>NEM</i>, apart from Victoria, in the <i>NERR</i>; and Victoria, in the Electricity Distribution Code and Energy Retail Code.
LNSP	<p><i>In the context of a Network Service Provider's distribution network: Local Network Service Provider</i></p> <p><i>In relation to a child connection point: EENSP.</i></p> <p>For the purposes of the Metrology Procedure: If there is more than one <i>Local Network Service Provider</i> for a local area, a reference to the LNSP in respect of a <i>metering installation</i> or <i>connection point</i> is a reference to the LNSP that holds a licence in respect of the <i>network</i> to which that <i>metering installation</i> or <i>connection point</i> is connected.</p>

Term	Definition
Load Profile	A profile of metering data aggregated across a specified set of connection points.
Load Table	A table of Unmetered Device market connection points published by AEMO at http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering .
Lot Number	The lot reference number allocated to a street address prior to street numbering (except in the ACT).
LR	Local Retailer. For Global Settlements, LR will be populated with GLOPOOL or POOLXXX.
LV	A Voltage equal to or less than 1kV.
LV CT	Low voltage current transformer
MAMP	Metering Asset Management Plan. A test plan developed and maintained by an MP in accordance with the Service Level Procedure (MP).
Manually Read	Collecting metering data other than by remote acquisition (including metering data from type 5 and 6 metering installations that meet the requirements of NER 7.8.9(b)) – as opposed to when a meter is Remotely Read.
MarketNet	AEMO’s private network available to Participants having a Participant ID
MC	Metering Coordinator The Role Code used in MSATS for an MC is ‘RP’.
MDFF	Metering Data File Format: The standard format for the delivery of metering data.
MDFF Specification	The AEMO document entitled: Meter Data File Format Specification NEM12 & NEM 13.
MDM	The part of MSATS called ‘Metering Data Management’.
MDM Contributory Suffix	A suffix defined in sections 6 and 7 of the NMI Procedure used to identify a stream of metering data and is consistent with the ‘NMI Suffix’ contained in the 200 record of the MDFF interval metering datafile and the 250 record of the MDFF accumulated metering data file.
MDM Data File	Meter Data Management Data File: The standard file for delivery of metering data to AEMO.
MDM Procedures	The AEMO document entitled: MSATS Procedure: MDM Procedures.
MDP	Metering Data Provider
Meter Alarm	Any alarm within a metering installation designed to detect any unexpected occurrence, such as a loss of supply, VT or phase failure, tamper detection, reverse energy flow, pulse overflow, cycle redundancy check error and temperature or time tolerance.
Meter Churn	Any alteration or replacement of a metering installation.
Meter Provision	The provision, installation and maintenance of the components of a metering installation.
Meter Reading	Electricity metering data taken from a metering installation, regardless of how it is obtained.
Meter Register	The meter register data stored in MSATS, which includes both the metering register and other data.
Meter Register Status Code	A code used in MSATS to delineate the status of a meter. See also section 4.712.3 of the GATS and WIGSMSATS Procedures.
Meter Serial ID	A faceplate serial number that uniquely identifies each meter associated with a NMI.
Metering Data Notification Process	The process of providing metering data to Participants by an MDP.
Metering Data Type	A value that describes how metering data is obtained i.e. Manually Read or Remotely Read

Term	Definition
Metering Data Verification Process	The process by which a Participant queries the <i>metering data</i> received from an MDP.
Metering Installation Type Code	The type of <i>meter</i> attached to a <i>NMI</i> as described in section 4.8 of the GATS and WIGSMSATS Procedures .
Metrology Procedure: Part A	The AEMO document entitled: Metrology Procedure: Part A National Electricity Market.
Metrology Procedure: Part B	The AEMO document entitled: Metrology Procedure: Part B Metering Data Validation, Substitution and Estimation Procedure.
MMS	AEMO’s Market Management Systems.
MP	<i>Metering Provider</i> . In MSATS, it is referred to as an MPB.
MPB	A Category B <i>Metering Provider</i> . An MP accredited to install, provide and maintain <i>metering installations</i> .
MPC	A Category C <i>Metering Data Provider</i> . An MDP accredited only to collect <i>metering data</i> , not process or transfer it.
MSATS	Market Settlements and Transfer Solution
MSATS Procedures Suite	The following procedures, collectively: GATS and WIGSMSATS Procedures ; Principles and Obligations for the Management of Connection Points ; WIGS Procedures , MDM Procedures, NMI Standing Data Schedule, NMI Procedure and Part A of the NEM RoLR Processes.
MSATS Procedures	The AEMO document entitled: MSATS Procedures – Principles and Obligations for the Management of Connection Points.
NEM Retail Operations Contacts List	The AEMO document entitled: NEM Retail Operations Contact List . Commonly referred to as: ROCL.
NEM RoLR Processes	The AEMO document entitled: NEM RoLR Processes – Part A: MSATS Procedure: RoLR Procedures – Part B: B2B Procedure: RoLR Process .
NER	The National Electricity Rules made under Part 7 of the <i>National Electricity Law</i> .
Network Tariff	The rate an NSP charges a <i>retailer</i> for the use of its <i>network</i> .
Network Tariff Code	A nominated code for the Network Tariff charged by the NSP.
New [Participant/Role]	See section 2.11
NMI Address	The physical location of the <i>connection point</i> .
NMI Checksum	A single digit number used to validate that a <i>NMI</i> supplied to MSATS is valid.
NMI Classification Code	A code used in MSATS that identifies the nature of the flow of electricity through a <i>connection point</i> . See section 4.54 of the GATS and WIGSMSATS Procedures .
NMI Datastream	The term used to represent a <i>NMI</i> suffix required by MDM to enable the <i>metering data</i> associated with a <i>NMI</i> to be correctly identified.
NMI Discovery Search 1	The process of finding a <i>NMI</i> and the NMI Checksum by searching MSATS using the Site, the DPID or the Meter Serial ID. See also the NMI Search Rules in section 176.3.1 of the GATS and WIGS MSATS Procedures .
NMI Discovery Search 2	The process of entering a <i>NMI</i> and NMI Checksum in MSATS to obtain the <i>NMI Standing Data</i> . See also the NMI Standing Data Access Rules detailed in section 176.3.2 of the GATS and WIGSMSATS Procedures .
NMI Discovery Search 3	The search process that can only be used for one of the purposes detailed in section 176.3.4 of the GATS and WIGSMSATS Procedures .
NMI Master Record	The NMI master record with an end date set to the year 9999.
NMI Procedure	The AEMO document entitled: MSATS Procedures: National Metering Identifier .

Term	Definition
NMI Search Rules	See Table 176-A in the CATS and WIGSMSATS Procedures. The search that is available in MSATS to enable a Participant identify a <i>NMI</i> when the only information available is the DPID, the <i>meter</i> serial number or the Site address.
NMI Standing Data Access Rules	The search that is available in MSATS to enable a Participant to identify nominated CATS Standing Data. See section 176.3.4 of the CATS and WIGSMSATS Procedures.
NMI Standing Data Schedule	The AEMO document entitled: NMI Standing Data Schedule.
NMI Status Code	A code used in MSATS to determine whether a <i>NMI</i> can be the subject of a retail transfer. See also section 4.76.1 of the CATS and WIGSMSATS Procedures.
Non-Controlled Load	A <i>load</i> that is not a Controlled Load.
Not Completed	A ServiceOrderStatus indicating that the Primary Work is not completed.
Notification	A B2B Transaction that does not require a corresponding reply. Could be a Meter Data, Customer and Site Details or a Notified Party Notification.
NotificationDetail	Data Payload for the OneWayNotification
Notified Party	The receiver of a B2B Transaction or B2B Acknowledgement for notification purposes only and not required to perform any services for the Initiator.
NSLP	Net System Load Profile: A type of <i>load profile</i> calculated by MSATS in accordance with the <i>metrology procedure</i> .
NSP	<i>Network Service Provider</i>
NSP2	Second Network Service Provider: The Role assigned to a DNSP for a <i>transmission connection point</i> (wholesale <i>NMIs</i>) that have two NSP roles.
NSRD	Next Scheduled Reading Date: The next scheduled Actual Meter Reading.
Objected or OBJ	One of the status points of a Change Request.
Objection	A type of transaction raised in relation to a Change Request whereby a Participant may object to the Completion of a Change Request on grounds that are permitted by the applicable Jurisdiction.
Objection Clearing Period	The number of <i>business days</i> an Objection can remain in MSATS. If the Objection has not been withdrawn by the end of the Objection Clearing Period, it will be Cancelled by MSATS.
Objection Code	A code used in MSATS representing the only grounds on which an Objection can be lodged. See Table 4-C of the CATS and WIGSMSATS Procedures for a list of the Objection Codes.
Objection Logging Period	The number of <i>business days</i> available to a Participant for entering an Objection in MSATS.
Objection Rules	The rules applicable in MSATS that determine how Objections are used for each Change Reason Code. See also section 4.43 of the CATS and WIGSMSATS Procedures.
Old Retailer	<i>Any previous retailer for a NMI.</i>
Off-Market	An End User within an <i>embedded network</i> who purchases electricity from the EENSP who supplies the electricity.
On-Market	An End User at a <i>child connection point</i> who purchases electricity from a <i>retailer</i> .
On/Off Table	A table recording the switching status (On = 1, Off = 0) for each TI for unmetered loads associated with a <i>NMI</i> as described in the Metrology Procedure: Part B.
OneWayNotification	A one-way message from an Initiator to a Recipient concerning one or more <i>NMIs</i> .

Term	Definition
PA	Participant Administrator: A person employed by a Participant who can create and maintain Participant Users for that Participant.
Parent FRMP	The <i>retailer</i> who is the Current FRMP for a <i>parent connection point</i> .
Parent Name	The Embedded Network Code populated in the 'EMBNETPARENT' field in MSATS for a Parent NMI to indicate that the <i>NMI</i> is a parent for a specified <i>embedded network</i> .
Partially Completed	A <i>ServiceOrderStatus</i> indicating that the Recipient has completed the Primary Work but that there are outstanding matters to be attended to.
Participant	An organisation with a Participant ID to sign into MSATS.
Participant ID	An organisation's participant identifier in MSATS.
Participant User	A user of MSATS on behalf of a Participant.
Pending or PEND	One of the status points of a Change Request.
Pending Validation or PVAL	One of the status points of a Change Request.
Physical Inventory	A physical count of Unmetered Devices.
PPS	Profile Preparation Service: It calculates <i>profile</i> shapes by using algorithms and <i>interval energy data</i> . The calculation of the NSLP or the CLP.
Previous Read Dates	Dates corresponding to Actual Metering Data or substituted <i>metering data</i> provided by MSATS
Previous Read Quality Flag	A quality flag determined by MSATS for the Previous Read Dates. The <i>metering data</i> quality flag is a value that defines the quality of the Meter Reading, as defined in Metrology Procedure Part B.
Primary Work	The activity described by the <i>ServiceOrderType</i> field of a ServiceOrderRequest .
Profile Area	A geographical area comprising a group of one or more TNIs for which a single NSLP is calculated. If part of an LNSP local area is located within the local area of another LNSP, that part of the local area of the first LNSP is considered to be part of the profile area of the second LNSP.
Profile Name	A code identifying the name of the algorithmically derived shape that is used to allocate a Datastream's <i>metering data</i> to TIs.
Proposed Change Date	The proposed date on which a Role will transfer from one Participant to another.
Prospective Change	A change to a NMI record that will take effect on a date after the date the Change Request is submitted.
Prospective Days	A situation where the number of <i>days</i> under consideration occur after the current date.
Prospective Period	The maximum period in which a Prospective Change can be made.
Qualification Procedure	The AEMO document entitled: Qualification Procedure: Metering Providers, Metering Data Providers and Embedded Network Managers.
Read Type Code	A code that provides direction to the MDP on the type of <i>meter</i> reading that is to be used to facilitate the End User transfer. Read Type Codes are detailed in Table 4-L of the GATS and WIGSMSATS Procedures.
REC	Registered Electrical Contractor: A person who is registered by the relevant safety regulator in each jurisdiction.
Recipient	The receiver of a B2B Transaction or B2B Acknowledgement. This can be either a notification, request for data or request to perform work.
Register Identifier Status Code	A code in MSATS that indicates if a Meter Register is active. See also section 4.7.36.4 of the GATS and WIGSMSATS Procedures.
Regulator	In the context of a RoLR Event, the <i>AER</i> for the <i>NEM</i> , apart from Victoria, and the Essential Services Commission of Victoria for Victoria.

Term	Definition
Rejected or REJ	One of the status points of a Change Request. It means that a Change Request fails a validation test in MSATS.
Remotely Read	Collecting <i>metering data</i> by <i>remote acquisition</i> – as opposed to when a <i>meter</i> is Manually Read.
Requested or REQ	One of the status points of a Change Request.
Required Timeframe	The time allowed for the completion of work requested in a Service Order, which could be a Jurisdictional requirement or an agreed period of time.
Residential	As defined in the <i>NERL</i> .
Retail Electricity Market Procedures	See the description in section 2.2.
Retrospective Change	A change to a NMI record that is to be effective on or before the date the Change Request is submitted.
Retrospective Days	A situation where the <i>days</i> under consideration must either be the date of a Change Request or a date preceding the date of the Change Request.
Retrospective Period	The maximum period in which a Retrospective Change can be made.
RoC	RoLR of Choice: The nomination of a <i>RoLR</i> by an End User (as appropriately classified in s.2 of the National Energy Retail Law) and agreed by the <i>retailer</i> to be its FRMP in a RoLR Event.
Role	The role an organisation has with a <i>connection point</i> in CATS. A single organisation can have more than one role associated with a <i>NMI</i> .
Role Code	A code used in MSATS to identify the association a Participant has with a <i>NMI</i> .
RoLR Effective Transfer Date	The first <i>day</i> after the declaration of RoLR Event. This is the date from which <i>NMIs</i> for which the Failed Retailer was the FRMP are transferred to their <i>RoLR</i> , making the RoLR the FRMP for those <i>NMIs</i> .
RoLR Event	An event that triggers the transfer of End Users to a <i>RoLR</i> .
RoLR Event Affected Jurisdiction	Jurisdiction affected by a RoLR Event.
RoLR Event Affected MSATS Participant	MSATS Participants potentially affected by a RoLR Event include: <ul style="list-style-type: none"> MSATS Participants with a current Role for any <i>NMI</i> where the Failed Retailer was assigned to one or more MSATS roles on the RoLR Effective Transfer Date, including: <ul style="list-style-type: none"> The Failed Retailer (the current FRMP, LR or both). The Current LNSP. The Current MDP. The Current MPB. The <i>RoLR</i> for each RoLR Event Affected <i>NMI</i>. If the Failed Retailer is a LR, the replacement LR. MSATS Participants that have a Role for a <i>NMI</i> for which, at the time of the RoLR Event, the Failed Retailer was nominated as the New FRMP on an incomplete Change Request or MSATS Participants nominated in a new Role on such a Change Request.
RoLR Event Affected NMI	<ul style="list-style-type: none"> <i>NMIs</i> where the Failed Retailer was assigned to one or more Roles for the RoLR Effective Transfer Date; and <i>NMIs</i> for which at the time of the RoLR Event, the Failed Retailer was nominated as the New FRMP on a Change Request that is at one of the following status points: Requested (REQ), Objected (OBJ) or Pending Validation (PVAL).
RoLR Key Contact	A contact specified in the NEM Retail Operations Contacts List.
RoLR Post Implementation Review	A review managed by AEMO to assess how a RoLR Event was managed.

Term	Definition
RoLR Transition Period	The period of time from when a RoLR Event occurs to the time a RoLR Post Implementation Review is completed.
Routine Testing	For the purposes of the Metrology Procedure, includes the ongoing and regular maintenance testing, compliance testing and in-service testing of a <i>metering installation</i> initiated by the MC or MP to fulfil their obligations under clause S7.6 of the NER.
Sample Test Plan	A statement of the sample size to be taken, the frequency of sample testing and the required accuracy.
SCADA	Supervisory Control and Data Acquisition
Scheduled Meter Reading	An Actual Meter Reading on a Meter Reading date scheduled by the relevant MDP.
Scheduled Reading Date	The date on which a Scheduled Meter Reading has occurred or might occur.
Second-Tier Load	For the purposes of the Retail Electricity Market Procedures, the <i>load</i> at a <i>connection point</i> where electricity is purchased from a <i>retailer</i> other than the <i>Local Retailer</i> , even if it has not been classified as a <i>second-tier load</i> under Chapter 2 of the NER.
Second Tier NMI	The <i>NMI</i> associated with a Second-Tier Load.
Service Level Procedure (ENM)	The AEMO document entitled: Service Level Procedure: Embedded Network Managers.
Service Level Procedure (MDP)	The AEMO document entitled: Service Level Procedure: Metering Data Provider Services.
Service Level Procedure (MP)	The AEMO document entitled: Service Level Procedure: Metering Provider Services Category B for Metering installation Types 1, 2, 3, 4, 5 and 6.
Service Order	A B2B request to perform specified work.
Service Order Process	The process of requesting the performance of specified work through a ServiceOrderRequest and receiving notification of the outcome of the request through a ServiceOrderResponse.
ServiceOrderRequest	A B2B Communication for a service to be performed at a connection point.
ServiceOrderResponse	A B2B Communication in response to a ServiceOrderRequest, which will include an explanation if the work is incomplete.
Service Paperwork	Paperwork required to carry out certain ServiceOrderRequests. For example: electrical work request or certificate of electrical safety.
Shared Fuse Arrangement	Shared Fuse Arrangement is where multiple NMIs are supplied via a common isolation point. This is specified in detail in Metrology Procedure: Part A and is recorded via an MSATS flag.
Site	The physical location of an End User’s premises.
Special Meter Reading	An Actual Meter Reading taken on a date other than a Scheduled Reading Date.
Special Read Date	A date on which a Special Meter Reading is to occur.
Special Site	A Site that AEMO determines requires special arrangements to support the integrity of the collection and processing of <i>metering data</i> from nominated <i>metering installations</i> , under clause 7.8.12(a) and <i>published</i> by AEMO in the Special Sites and Technology Related Conditions within the National Electricity Market.
Special Sites Document	The AEMO document entitled: Special Sites and Technology Related Conditions within the National Electricity Market.
SSL	Secure Socket Layer: A protocol for encrypting information over the internet.
Start Date	The date entered is the date from which the change will occur.
Structured Address	The structured address format contains the following information: <ul style="list-style-type: none"> • Flat type and flat number • Floor type and floor number • Building name • Location descriptor

Term	Definition
	<ul style="list-style-type: none"> House number and suffix Lot number Street name and street type Suburb Postcode State
Substitution	A process undertaken for the replacement of missing (null) or erroneous <i>accumulated metering data</i> or <i>interval metering data</i> where <i>metering data</i> has failed Validation.
TI	<i>trading interval</i>
Tier 1 Site	<p>A site where the FRMP is the LR. This could be the case where:</p> <ul style="list-style-type: none"> The End User has transferred back to the LR as their <i>retailer</i> (FRMP) after a period with another <i>retailer</i>; The site is not <i>contestable</i>; or The site is <i>contestable</i> but the End User has not transferred to another <i>retailer</i>. <p>See also First-Tier Load.</p>
Tier 2 Site	<p>A site where the FRMP is not the same as the LR. This could be the case if:</p> <ul style="list-style-type: none"> a <i>contestable</i> End User has elected to transfer from the LR; or an End User signed a contract with a <i>retailer</i> other than the LR prior to the <i>connection point</i> being established in the MSATS System and it was created as a Tier 2 Site. <p>See also Second-Tier Load.</p>
Timeframe Rules	<p>The rules that allocate the number of <i>business days</i> to the following categories:</p> <ul style="list-style-type: none"> Objection Logging Period. Objection Clearing Period. Retrospective Period. Prospective Period.
Timing Period	The time between two Timing Points .
Timing Point	Point in time when an activity occurs.
Timing Requirement	The Timing Points when an activity must be initiated or completed.
TNI Code	Transmission Node Identity: A four character alpha-numeric code used to identify a <i>virtual transmission node</i> or <i>transmission network connection point</i> .
TNI2	TNI Code assigned, by AEMO, to a <i>distribution network</i> into which energy normally flows through a <i>connection point</i> between adjacent <i>distribution networks</i> that has a single <i>NMI</i> .
TNSP	<i>Transmission Network Service Provider</i>
Transaction Type Code	A code used in MSATS to identify a need to change CATS Standing Data.
UFE	Unaccounted for energy
Uncontrolled Unmetered Device	An Unmetered Device that operates 24 hours per <i>day</i> and has a variable <i>load</i> over a repeated operating cycle (e.g. traffic signal, where applicable).
Unmetered Device	Any electricity-consuming device that is installed at or near a <i>connection point</i> that is unmetered, and the <i>load</i> consumed at that <i>connection point</i> is a <i>market load</i> .
Unmetered Device Type	Controlled Unmetered Devices or Uncontrolled Unmetered Devices
Unmetered Load Guideline	The AEMO document entitled: <i>Unmetered Load Guideline: Determination of Device Load and Annual Energy Consumption for Type 7 Unmetered Devices</i> .
Unstructured Address	<p>An address with the following format:</p> <ul style="list-style-type: none"> A string of text characters with a maximum length of 80 per line.

Term	Definition
	<ul style="list-style-type: none"> A maximum of 3 lines.
UOM	Unit of Measure – Refer to Appendix B of MDFF Specification for format and allowed UOM values
Validated	<i>Metering data</i> that has passed Validation.
Validation	A process to test the veracity and integrity of <i>metering data</i> by the MDP when preparing <i>metering data</i> delivery to AEMO and appropriate Participants.
Verification	A process to compare <i>energy data</i> held in the <i>metering installation</i> with <i>metering data</i> held in the <i>metering data services database</i> inclusive of scaling constants. This process typically occurs when a <i>metering installation</i> is first installed, modified or reconfigured (i.e. commissioned), or when the <i>metering installation</i> is tested.
VICAMI Meter	A <i>meter</i> installed in Victoria as part of the Advanced Metering Infrastructure mandate in Victoria. May be identified in MSATS as MRIM with RWD* ReadTypeCode when remotely read of MRIM when manually read.
VT	<i>Voltage transformer</i>
WIGS	Wholesale, Interconnector, Generator and Sample.
WIGS Procedures	The AEMO document entitled: MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIs.

Version release history

Version	Effective Date	Summary of Changes
1.0	1 December 2017	First Issue
1.1	1 December 2017	Updated for POC Procedure Changes (Package 2)
2.2	1 December 2017	Updated to incorporate changes following IEC consultation (affecting B2B Procedures) and to include information required by NER clause 7.16.1(f)
2.3	1 October 2021	Updated to incorporate changes from NEM Customer Switching
3.0	1 October 2021	Updated for National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15
3.1	1 October 2021	Updated to incorporate: National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14
3.11	1 October 2021	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): ICF_027 Average Daily Load (ADL) definition
3.2	1 October 2021	v2.3, v3.0, v3.1 and v3.11 consolidation
3.3	24 October 2021	Update to incorporate National Electricity Amendment (Wholesale demand response mechanism) Rule 2020 No. 9
3.31	24 October 2021	v3.2 and v3.3 Consolidated
3.4	1 May 2022	MSATS Standing Data Review – New and amended fields
3.41	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): ICF_020 Changes to the clause 4.2 of the SLP to avoid confusion with the terms validation vs verification
3.42	1 May 2022	MSATS Standing Data Review Minor Amendment
3.5	1 May 2022	Updated Controlled Load definition and consolidated v3.31, v3.4 and v3.41 as part of Retail Electricity Market Procedures October Consultation.
3.6	7 November 2022	MSATS Standing Data Review Minor Amendment
3.7	7 November 2022	Consolidated 3.5 and 3.6 as part of Retail Electricity Market Procedures October Consultation.
3.8	1 March 2023	Updated to include the UFE Reporting Guideline document into the Procedure framework
3.9	30 May 2023	Updated to include the LCCD definition for Consumer Data Right.
4.0	4 March 2024	Updated to include new Metering Installation Exemption Guideline
4.1	2 June 2024	Updated diagram section 2.1 and changes to incorporate National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021.
4.2	2 June 2024	Consolidated versions 4.0 and 4.1 as part of Retail Electricity Market Procedures June 2024 Consolidation Consultation.
4.3	15 November 2024	Updated with changed related to CATS and WIGS Procedures amalgamation.