RETAIL ELECTRICITY MARKET PROCEDURES – GLOSSARY AND FRAMEWORK

PREPARED BY: AEMO MARKETS
VERSION: 1.0
EFFECTIVE DATE: 01 DECEMBER 2017
STATUS: DRAFT

Approved for distribution and use by:

APPROVED BY: PETER GEERS
TITLE: EXECUTIVE GENERAL MANAGER, MARKETS

SIGNED:

DATE: / / 2016

© 2014 Australian Energy Market Operator Ltd ABN 94 072 010 327 www.aemo.com.au info@aemo.com.au

NEW SOUTH WALES QUEENSLAND SOUTH AUSTRALIA VICTORIA AUSTRALIAN CAPITAL TERRITORY TASMANIA

VERSION RELEASE HISTORY

Version	Effective Date	Summary of Changes
1.0		First Issue

CONTENTS

CHAPTER 1. INTRODUCTION 4

1.1 Purpose and Scope 4
1.2 Definitions and Interpretation 4
1.3 Related Documents 4

CHAPTER 2. FRAMEWORK 5

2.1 The Role of the Retail Market in the NEM 5
2.2 Retail Electricity Market Procedures 6

CHAPTER 3. GLOSSARY 10

CHAPTER 4. MSATS CODES 21

4.1 Use of RP 21
4.2 Use of ENM 21
4.3 Temporal References to Roles 21

CHAPTER 1. INTRODUCTION

1.1 Purpose and Scope

This document is intended to assist users of the Retail Electricity Market Procedures in understanding the overall framework within which they ~~are designed to~~ operate and also ~~functions~~ contains ~~as~~ a dictionary of terms used in the Retail Electricity Market Procedures. Hence, this document forms part of each of the Retail Electricity Market Procedures and may be amended in accordance with the process applicable to the relevant Retail Electricity Market Procedure.

1.2 Definitions and Interpretation

1.2.1 Glossary

Capitalised words, phrases and abbreviations used in the Retail Electricity Market Procedures (except *B2B Procedures*) ~~set out in Chapter 3~~ have the meanings given to them in Chapter 3~~set out opposite them when used in this document and the Retail Electricity Market Procedures (except *B2B Procedures*)~~.

Italicised terms used in the Retail Electricity Market Procedures (except *B2B Procedures*) have the same meanings given to those terms in the NER unless otherwise specified.

1.2.2 Interpretation

The following principles of interpretation apply to the Retail Electricity Market Procedures (except *B2B 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 National Electricity Rules (**NER**) prevail over this document and the Retail Electricity Market Procedures to the extent of any inconsistency.

(c) References to time are references to *Eastern Standard Time*.

(d) 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	Location
Metrology Procedure: Part A	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Metrology-Procedures-and-Unmetered-Loads
Metrology Procedure: Part B	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Metrology-Procedures-and-Unmetered-Loads
CATS Procedures	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Market-Settlement-and-Transfer-Solutions
WIGS Procedures	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Market-Settlement-and-Transfer-Solutions
MDM Procedures	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Market-Settlement-and-Transfer-Solutions
NMI Data Schedule	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Market-Settlement-and-Transfer-Solutions
NMI Procedures	http://www.aemo.com.au/Electricity/Policies-and-Procedures/Retail-and-Metering/National-Metering-Identifier-Procedure
Service Level Procedure (MDP)	http://www.aemo.com.au/Electricity/Retail-and-Metering/Metering-Services
Service Level Procedure (MP)	http://www.aemo.com.au/Electricity/Retail-and-Metering/Metering-Services
NEM RoLR ~~Procedures~~Processes	http://www.aemo.com.au/Electricity/Policies-and-Procedures/B2B/NEM-RoLR-Processes
Metering Data File Format	http://www.aemo.com.au/Electricity/Retail-and-Metering/Metering-Services

CHAPTER 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 User~~s~~s.

FRC 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~~A~~ high level view (but by no means comprehensive) of these process~~s~~es and systems is as follows:

Figure 1: High Level View of Retail Electricity Market Processes

2.2 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

* While illustrated as one document, the MP Accreditation and MDP Accreditation are currently separate procedures. These are expected to be combined into one procedure following Power of Choice Package 2 consultations.

~~* While illustrated as one document, the MP Accreditation and MDP Accreditation are currently separate procedures. These are expected to be combined into one procedure following Power of Choice Package 2 consultations.~~

~~If the Retail Electricity Market Procedures are superimposed over the processes detailed in the Retail Electricity Market Procedures, one can visualise the relationship between the two:~~

~~Each of the Retail Electricity Market Procedures is described in further detail below:~~

2.2.1 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 ~~made~~ *published* ~~up of~~in two ~~documents~~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*.

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.

2.2.2 B2B Procedures

B2B Procedures are developed and *published* in accordance with clause 7.17.2(i) of the NER. They are made up of a number of documents (as permitted by clause 7.17.4(g) of the NER), as follows:

- B2B Procedure: Technical Guidelines for B2B Procedures
- B2B Procedure: Customer and Site Details Notification Process
- B2B Procedure: Meter Data Process
- B2B Procedure: Service Order Process
- B2B Procedure: Technical Delivery Specification
- B2B Procedure: RoLR Process
- B2B Procedure: One Way Notification Process

2.2.3 MSATS Procedures

MSATS is a system ~~that is~~ 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*~~ where there is an implication for the *settlements* of *transactions* engaged in by those *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 ~~divided into a number of procedures~~*published* as separate documents along functional lines~~, known as CATS, WIGS and MDM Procedures~~:

2.2.3.1 CATS Procedures

The CATS Procedures apply to End User transactions.

2.2.3.2 WIGS Procedures

The WIGS Procedures apply to those *connection points* that do not involve an End User transaction, namely, wholesale, *interconnector* and *generation connection points* and sample data used in *settlements*.

2.2.3.3 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 half-hourly data for *settlements*; and
  - Reconciliation of Participant data.

2.2.3.4 NMI Standing Data Schedule

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

2.2.3.5 National Metering Identifier Procedure

This document sets out the structure of *NMIs*. It is not required to be *published* under the NER, yet it is a critical explanatory document.

2.2.4 RoLR Procedures

Although the *RoLR Procedures* are prescribed under the 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. For the purposes of clarity, the RoLR Procedures delinate which parts are made under which part of the NER.

2.2.5 Metering Services Procedures

These procedures are made up of ~~two groups of~~ procedures dealing with the accreditation and deregistration of providers of metering and metering services and~~,~~ the *service level procedures*~~ and the *meter churn procedures*~~.

2.2.5.1 Metering Service Provider Accreditation Procedure

This procedure details how an intending MDP or MP goes about applying for accreditation and the process by which AEMO accredits and registers that party.

~~2.2.5.1~~2.2.5.2 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.

(a) **Service Level Procedures - Metering Data Provider Services**

This document details the obligations, technical requirements, measurement processes and performance requirements that are to be performed, administered and maintained by MDPs in the provision of *metering data services* for all *metering installation* types and the maintenance of a *metering data services database.*

(b) **Service Level Procedures - Metering Provider Services**

This document details the obligations, technical requirements, measurement processes and performance requirements that are to be performed, administered and maintained by MPs in the provision, installation and maintenance of *metering installations*.

2.2.5.3 Service Provider Compliance Assessment & Deregistration Procedure

Where an MP or MDP's performance fails to meet the relevant *service level procedures*, this document details how AEMO will assess that performance and the consequences of failing to meet the required standards of performance.

~~2.2.5.2 Meter Churn Procedures~~

~~The *meter churn procedures* are made under clause 7.8.9 of the NER and apply to all MCs, MPs, MDPs and FRMPs to consider in managing the meter churn resulting from an alteration or replacement of a *metering installation*. For convenience, the *meter churn procedures* have been included in Metrology Procedure: Part A.~~

CHAPTER 3. GLOSSARY

The Retail Electricity Market Procedures often use common terminology. For ease of reference, all terms in the Retail Electricity Market Procedures (except *B2B Procedures*) are defined in the table below.

Italicised terms have the same meanings given to those terms in the NER unless otherwise specified.

Term	Definition
Accelerate	A process initiated by AEMO to complete In-Progress Change Requests following a RoLR Event, allowing for: • 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.
~~Access Requirements~~	~~Specific Site access requirements associated with a Service Order.~~
Accreditation Checklists	The questions an applicant for Accreditation as MDP or MP must complete to be accredited.
Accumulation Meter	A ~~device~~ *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~~complying with *Australian Standards*, containing measurement elements and a record of the accumulated quantity of electricity flowing through a power conductor~~. 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~~, which might not always be the same as the date provided in the 'Proposed Change Date' field~~. (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.
Actual Meter Reading	The *accumulated metering data* or *interval metering data* collected from a *meter* either manually or by *remote acquisition* (as applicable).
ADL	Average Daily Load: The electricity delivered through a *connection point* ~~or *metering point*~~ over an extended period averaged to a daily amount.
AEMO Communication	An email from AEMO to a distribution list of *Registered Participant* contacts broadcasting *NEM*-related information.
~~AEMO Security Model~~	~~The entities and rights assigned to Participants to maintain access rights to different parts of the system.~~ ~~GUIDE TO USER RIGHTS MANAGEMENT: Permits Pass to securely manage access to AEMO's systems.~~
~~AEMO System Administrator~~	~~The AEMO person who creates the initial PA IDs for each Participant, with the PA Right assigned to each.~~
~~Agreement~~	~~An agreement between a new *retailer* and an End User authorising the new *retailer* to supply electricity to the End User.~~
~~Assessment Process~~	~~Service Providers are required to provide detailed responses to the questions in the accreditation checklists as well as providing evidence to support their responses.~~
~~Assessment Review~~	~~A review of the responses provided by the applicant Service Providers, supplemented by on-site visits to verify responses and evidence provided by applicant Service Providers. The assessment review will be completed by AEMO as well as an independent reviewer appointed by AEMO.~~
aseXML Guidelines	Guidelines for the development of A Standard for Energy Transactions in XML (aseXML)
Asset Management Strategy	A strategy for the testing of *metering installations* submitted by an MC and approved by AEMO under clause S7.6 of the NER.
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 party that applies a *profile*, including NSLP or CLP, to determine ~~trading interval~~ TI data from *accumulated metering data*.

Term	Definition
Bundling	A function in MSATS whereby AEMO 'bundles' MSATS Change Request Notifications. This means that instead of sending Change Request notifications 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 *NERL*.
Business Group	A group of Participant companies (each with ~~single~~ their own Participant IDs) that are part of a single commercial enterprise~~entity~~.
Business Hour	A period of one hour within a *business day*.
C4 Report	An MSATS report that contains current CATS Standing Data for one or more *NMIs*.
Cancelled	A status point of a Change Request.
Category A	A category of MP accreditation meaning the only activity that the MP is accredited to provide is the installation of a *metering installation*.
Category B	A category of MP accreditation meaning that the MP is accredited to provide, install and maintain a *metering installation*.
Category C	A category of MDP accreditation meaning the only activity that the MDP is accredited to provide is the collection of *metering data.*
Category D	A category of MDP accreditation meaning that the MDP is accredited to provide is the collection, processing and transfer of *metering data.*
CATS	Consumer Administration and Transfer Solution, a part of MSATS.
CATS Procedures	The AEMO document entitled: MSATS Procedures: CATS Procedure Principles and Obligations
CATS Standing Data	The data held in the following database tables: • CATS_NMI_Data_Stream • CATS_NMI_Data • CATS_Meter_Register • CATS_NMI_Participants_Relationships • CATS_Register_Identifier *NMI Standing Data* is a sub-set of the CATS Standing Data.
CATS Standing Data Access Rules	~~See Tables 44-D, 44-E, 44-F, 44-G & 44-H in~~ The rules specifying which of the CATS Standing Data may be accessed, as specified in section 41.5 of the CATS Procedures.
Change Reason Code	A code that identifies a type of Change Request. It defines rules such as what *NMI* 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 *NMI Standing Data*, or to effect an End User transfer.
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.~~, which are:~~ ~~• Initiated~~ ~~• Pending Validation~~ ~~• Rejected~~ ~~• Requested~~ ~~• Pending~~ ~~• Completed~~ ~~• Objected~~ ~~• Cancelled~~
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 Procedures for each Change Reason Code.
Child Name	The ~~name given~~ Embedded Network Code populated in the EmbNetChild field in MSATS for a Child NMI to indicate that the *NMI* is a child ~~to a *child connection point* in MSATS~~for a specified em*bedded network*.
Child NMI	The *NMI* ~~applicable~~ assigned to a *child connection point*.
CLP	Controlled Load Profile; a type of load *profile* calculated in accordance with the Metrology Procedure.
Completed	One of the status points of a Change Request.

Term	Definition
Controlled Load	*Load* that is controlled by the *metering installation* (eg frequency injection relay or time clock) and may be separately metered from the remaining *load* at a *metering point*. The majority of Controlled Loads are associated with off-peak hot water, pool pumps and airconditiong units.
Controlled Unmetered Device	An Unmetered Device that has a predictable *load* and is switched in accordance with an On/Off Table (e.g. street lighting)~~with a fixed operating cycle~~.
Cooling-Off Period	In Victoria: As defined in the Energy Retail Code published by the Essential Services Commission of Victoria. In the rest of the *NEM*: As defined in the *NERR*.
CSV	Comma Separated Values; a file format for data using commas as delimiters.
CT	*Current transformer*
Current [Participant/Role]	See section 4.3.
~~Current ENM~~	~~The *Embedded Network Manager* identified on the NMI Master Record.~~
~~Current FRMP~~	~~The *retailer* identified on the NMI Master Record.~~
~~Current LNSP~~	~~The LNSP identified on the NMI Master Record.~~
~~Current LR~~	~~The *Local Retailer* identified on the NMI Master Record.~~
~~Current MC~~	~~The *Metering Coordinator* identified as the 'Current RP' on the NMI Master Record.~~
~~Current MDP~~	~~The MDP identified on the NMI Master Record.~~
~~Current MPB~~	~~The MPB identified on the NMI Master Record.~~
~~Current MPC~~	~~The MPC identified on the NMI Master Record.~~
~~Current RP~~	~~The *Metering Coordinator* identified as the 'Current RP' such on the NMI Master Record.~~
Customer Classification Code	A code used in MSATS to determine the classification of an End User~~ using the *NERR* taxonomy~~. ~~There are only two Customer Classification Codes:~~ ~~BUSINESS~~ ~~RESIDENTIAL~~ See section 4.10.2 of the CATS Procedures for further information
Customer Threshold Code	A code used in MSATS to determine the consumption for an End User at a single *connection point*. ~~There are three Customer Threshold Codes:~~ ~~• LOW~~ ~~• MEDIUM~~ ~~• HIGH~~ See section 4.10.2 of the CATS Procedures for further information.
Data Request	A ~~request~~ transaction initiated by MSATS and sent to a Participant at the Pending Validation ~~point~~ status of the Change Request life cycle.
Datastream	A stream of *metering data* associated with a *connection point* as represented by a *NMI*. A *NMI* can have multiple Datastreams (eg from one or more *meters*, or from one or more channels or registers that comprise a single *meter*). Each Datastream is identified by a unique suffix associated with the *NMI* to which it belongs.
Datastream Status Code	See section 4.11.2 of the CATS Procedures
~~DCTC~~	~~Data Collection Type Code~~
DLF	*distribution loss factor*
DLF Code	A code used in MSATS to identify a *distribution loss factor*.
DNSP	*Distribution Network Service Provider*
DPID	Delivery Point Identifier: A unique identifier assigned and used by Australia Post assigned as a numeric descriptor for a postal address.
EENSP	*Exempt Embedded Network Service Provider*.
Embedded Network Code	A code used in MSATS to identify an *embedded network*.
End User	A person who acquires electricity for consumption purposes.
ENM	*Embedded Network Manager*
Estimated Reading	An estimate of a Meter Reading where an Actual Meter Reading is not available.

Term	Definition
Estimation	The ~~processing of *metering data* for the~~ forward estimation of *metering data* ~~where the Scheduled Meter Reading cycle does not support the delivery timeframes of *metering data* to AEMO and *Registered Participants*~~.
Explicit Informed Consent	• In Victoria: As defined in the Energy Retail Code published by the Essential Services Commission of Victoria. • In the rest of the *NEM*: As defined in the *NERL*.
~~External Participant User~~	~~A Participant User with rights to access another company's Participant ID.~~
Failed Retailer	A *retailer* that is the subject of a RoLR Event.
Field Validation Rules	As described in section 4.14 of the CATS Procedures, these 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:
	• an End User:
	  ○ vacates an address; or
	  ○ changes *retailer*; or
	• all or any part of a *metering installation* is:
	  ○ removed; or
	  ○ modified and the modification affects the *energy data* in the *metering installation*.

First Tier NMI	The *NMI* associated with a *first tier load*.
First-Tier Controlled Load	A Controlled Load that is a *first-tier load*. For the purposes of the Metrology Procedure, a *first-tier load* also includes the electricity purchased at a *connection point* directly and in its entirety from the *Local Retailer* even if it has not been so classified.
~~FRC~~	~~Full retail competition.~~
FRMP	*financially responsible Market Participant*, usually a *retailer, Generator*, *Market Customer* or an MSGA, identified as such in respect of a *connection point* in MSATS.
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	*Metering data* that has been provided for a previous reading period
~~HTTPS~~	~~Hypertext Transfer Protocol Secure: Adds the security capabilities of SSL to standard HTTP communications.~~
HV CT	*High voltage current transformer*
ILAC	International Laboratory Accreditation Cooperation.
~~In Progress Change Requests~~	~~Change Requests with a status of:~~ ~~• Requested (REQ)~~ ~~• Objected (OBJ)~~ ~~• Pending (PEND)~~
Initiation Rules	As described in section 4.4 of the CATS Procedures, the rules that specify who can initiate a Change Request in MSATS.
Insolvency Official	An official appointed in respect of a *retailer* or any property of the *retailer* 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 *interval energy data* is recorded by the *metering installation* that corresponds to a TI or submultiples of a TI.
Interval Meter	A *meter* that records *interval energy data*. It is manually read, or remotely read using a communications network.
Inventory Table	A table of devices for unmetered *loads* associated with each *NMI* as described in sections ~~14.3.3~~12.2.2, 12.2.3 and ~~14.4.3~~12.5.2 of Metrology Procedure: Part B.
Jurisdiction	*participating jurisdiction*

Term	Definition
Jurisdiction Code	Codes used in MSATS to identify the Jurisdiction to which a NMI belongs~~. These are the Jurisdiction Codes:~~ and as specified in section 4.5 of the CATS Procedures. ~~Jurisdiction Code~~ / ~~Jurisdiction~~ ~~ACT~~ / ~~Australian Capital Territory~~ ~~ALL~~ / ~~All Jurisdictions~~ ~~NSW~~ / ~~New South Wales~~ ~~QLD~~ / ~~Queensland~~ ~~SA~~ / ~~South Australia~~ ~~VIC~~ / ~~Victoria~~ ~~TAS~~ / ~~Tasmania~~
Life Support	A situation where an End User relies on electricity for the operation of 'life support equipment', a term defined in ~~the~~: • Victoria, in the Electricity Distribution Code; and • rest of the *NEM*, in the *NERR*.
LNSP	In the context of a *Network Service Provider's distribution network*: *Local Network Service Provider* In relation to a *child connection point*: ENM. For the purposes of the Metrology Procedure: If there is more than one *Local Network Service Provider* for a local area, a reference to the LNSP in respect of a *metering installation* or *connection point* is a reference to the LNSP that holds a licence in respect of the *network* to which that *metering installation* or *connection point* is *connected*.
Load Profile	A *profile* of *metering data* aggregated across a specified set of *connection points*.
Load Table	A table of Unmetered Device *loads published* by AEMO at http://www.aemo.com.au/Electricity/Policies-and-Procedures/Metrology-Procedures-and-Unmetered-Loads/NEM-Unmetered-Loads.
Lot Number	The lot reference number allocated to a street address prior to street numbering.
LR	*Local Retailer*
LV CT	*Low voltage current transformer*
MAMP	Metering Asset Management Plan
MarketNet	An AEMO ~~'~~ a web browser over a secure communications channel used by Participants to access AEMO's *market* systems.~~s network infrastructure used to facilitate the operation of the *NEM*.~~
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* to *Registered Participants*.
MDFF Specification	The AEMO document entitled: Meter Data File Format Specification NEM12 & NEM 13
MDM	The part of MSATS called 'Metering Data Management'.
MDM Data File	Meter Data Management Data File: The standard ~~format~~ file for delivery of *metering data* to AEMO.
~~MDM Datastream~~	~~The term used to represent a *NMI* suffix required by MDM to enable the *metering data* associated with a *NMI* to be correctly identified.~~
MDM Procedures	The AEMO document entitled: MSATS Procedure: MDM Procedures.
MDP	*Metering Data Provider*
Meter Alarm	Any alarm ~~situated~~ 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 ~~The process of altering or replacing one or more *meters* at~~ a *metering installation*.
Meter Provision	The provision, installation and maintenance of the components of a *metering installation*.
Meter Reading	~~A *meter* reading~~Electricity consumption data taken from a *meter*, regardless of how it is obtained.
Meter Register	The meter register data stored in MSATS, which includes both the *metering register* and other data ~~elements required by the system, industry and / or jurisdictions~~.
~~Meter Register Status Code~~	~~See section 4.11.3 of the CATS Procedures.~~

Term	Definition
Meter Serial ID	A faceplate serial number that uniquely identifies each *metering installation* record associated with a *NMI*.
Meter Status Code	A code used in MSATS to delineate the status of a *meter*. See also section 4.11.3 of the CATS Procedures.
Metering Data Notification Process	The process of providing *metering data* to Participants by an MDP.
Metering Data Verification Process	The process by which a Participant queries the *metering data* received from an MDP~~ and provide alternative *metering data* to the MDP for the purpose of Substitution~~.
Metering Installation Type Code	The type of *meter* attached to a *NMI* as described in section 4.12 of the CATS 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
~~MMS Web Portal~~	~~Access to AEMO's web applications using a single web portal interface.~~
MP	*Metering Provider*
MPB	A Category B *Metering Provider*
MPC	A Category C *Metering Data Provider*
~~MRIM~~	~~Manually Read Interval Meter.~~
MSATS	Market Settlements and Transfer Solution
MSGA	*Market Small Generator Aggregator*
~~MT PASA~~	~~*medium term PASA*~~
NEM Retail Operations Contacts List	The AEMO document entitled: NEM Retail Operations Contact List.
NEM RoLR Processes	The AEMO document entitled: ~~An AEMO document called~~ 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 *National Electricity Law*.
Network Tariff	The rate an NSP charges a *retailer* for the use of its *network*.
Network Tariff Code	A nominated code for the Network Tariff charged by the NSP.
New [Participant/Role]	See section 4.3.
~~New FRMP~~	~~The FRMP identified in a Change Request prior to the Change Request being completed.~~
~~New LNSP~~	~~The LNSP identified in a Change Request prior to the Change Request being completed.~~
~~New MDP~~	~~The MDP identified in a Change Request prior to the Change Request being completed.~~
~~New MP~~	~~The MP identified in a Change Request prior to the Change Request being completed.~~
~~New MPB~~	~~The MPB identified in a Change Request prior to the Change Request being completed.~~
~~New MPC~~	~~The MPC identified in a Change Request prior to the Change Request being completed.~~
~~New NSP2~~	~~The NSP2 identified in a Change Request prior to the Change Request being completed.~~
~~New Retailer~~	~~The *retailer* identified in a Change Request prior to the Change Request being completed.~~
~~New RP~~	~~The RP identified in a Change Request prior to the Change Request being completed.~~
~~Next Scheduled Read Date~~	~~See Table 4-M of the CATS Procedures.~~
NMI Address	The ~~address where the *connection point* the *NMI* refers to is located (ie, the site address). During an End User transfer, this information is supplied to the new *retailer* by the LNSP and acts as a check for the correct *NMI* identification~~physical location of the *connection point*..
NMI Checksum	A single digit number~~, one digit in length,~~ used to validate that a *NMI* supplied to MSATS is valid.
NMI Classification Code	A code used in MSATS that identifies the nature of the flow of electricity through a *connection point*. They are parameters that can be used when specifying Change Reason Codes, application timeframes and Objection Rules. See section 4.9 of the CATS Procedure.

Term	Definition
NMI Datastream	The term used to represent a *NMI* suffix required by MDM to enable the *metering data* associated with a *NMI* to be correctly identified.~~See MDM Datastream.~~
NMI Discovery Search 1	The process of finding a *NMI* and the NMI Checksum by searching MSATS using the Site, the DPID or a *meter's* serial number. See also the NMI Search Rules in section 4~~4~~1.3 of the CATS Procedures.
NMI Discovery Search 2	The process of entering a *NMI* and NMI Checksum in MSATS to obtain the *NMI Standing Data*. See also the NMI Standing Data Access Rules detailed in section 4~~4~~1.4 of the CATS Procedures.
NMI Discovery Search 3	The search process ~~for finding the Current or the most recent Participants to facilitate initiation of an error correction Change Request~~that can only be used for one of the purposes detailed in ~~.~~ ~~See~~ section 41.6(a) of the CATS Procedures.
NMI Master Record	The NMI master record with an end date set to the year 9999.
NMI Procedure~~s~~	The AEMO document entitled: ~~The AEMO document called~~ National Metering Identifier Procedure.
NMI Search Rules	See Table 4~~4~~1-B in the CATS Procedures. The search that is available in MSATS to enable a Participant identify a *NMI* when the only information available is the DPID, the *meter* serial number or the Site address.
NMI Site Address	The physical location of the *connection point*.
NMI Standing Data Access Rules	The search that is available in MSATS to enable a Participant to identify nominated CATS Standing Data.
NMI Status Code	A code used in MSATS to determine whether a *NMI* can be the subject of a retail transfer. See also section 4.11.1 of the CATS Procedures.
~~Nominated Jurisdictional Threshold Level~~	~~The lowest volume of consumption for each Jurisdiction for which End Users are contestable. In some Jurisdictions, this is zero MWh per annum.~~
Non-Controlled Load	A *load* that is not a Controlled Load.
~~NRNSP~~	~~Non-Registered Network Service Provider: A role identified in MSATS as the LNSP for Child Metering Points, where the LNSP for the Parent Metering Point has no relationship with the *connection points* within the Embedded Network and chooses not to be identified as the LNSP for the Child Metering Points.~~
NSLP	Net System Load Profile: A ~~profile calculated from interval data for metered inputs (eg TNI data) less interval data (metered or derived) outputs, to derive an average load shape for the remaining energy in the Profile Area. Net System Load is the residual of the total system load, (net off and the peel off). The Net Off consists of all of the Interval Meters. The Peel Off consists of profiles that have been applied to other basic meters, as defined by the jurisdictional rules.~~ ~~METROLOGY a~~ type of load *profile* calculated in accordance with the Metrology Procedure.
NSP	*Network Service Provider*
NSP2	Second Network Service Provider: The Role assigned to a DNSP ~~F~~for a *transmission connection point~~s~~* (wholesale *NMIs*) that have two ~~network service provider~~NSP roles ~~the TNSP is assigned the LNSP role and the DNSP is assigned the role of NSP2~~.
NSRD	Next Scheduled Reading Date: A Read Type Code. See also section 4.13 of the CATS Procedures.
Object~~ion~~ed	One of the status points of a Change Request.
Objection	A type of transaction raised in relation to a Change Request.
Objection Clearing Period	The number of *business days* after which an outstanding Objection can remain in MSATS. It will be cancelled by MSATS once this period elapses if the Objection has not been withdrawn.
Objection Code	See Table 4-D of the CATS Procedures.
Objection Logging Period	The number of *business days* available to a Participant for entering an Objection in MSATS.
Objection Rules	See section 4.8 of the CATS Procedures.
Old Retailer	Any previous FRMP for a *NMI*.
On/Off Table	A table recording the switching status (On = 1, Off = 0) for each *trading interval* for unmetered *loads* associated with a *NMI* as described in the Metrology Procedure: Part B.
~~Parent~~	~~*parent connection point*. The electricity measured at this *connection point* is supplied to more than one *child connection point*.~~
Parent FRMP	The *retailer* who is the Current FRMP for a *parent* ~~Metering Point *NMI*~~*connection point*.
Parent Name	The Embedded Network Code populated in the EmbNetParent field in MSATS for a Parent NMI to indicate that the *NMI* is a parent for a specified em*bedded network*.

Term	Definition
~~Parent NMI~~	~~A Parent's *NMI*.~~
Participant	~~In the context of MSATS, an MSATS participant~~An organisation with a Participant ID to sign into ~~MMS~~MSATS. ~~In the context of CATS, a CATS participant.~~
Participant ID	An ~~Participant~~ organisation's participant identifier in MSATS.
Participant User	A user of MMS on behalf of a Participant.
Pending	One of the status points of a Change Request.
Pending Validation	One of the status points of a Change Request.
Physical Inventory	A physical count of Unmetered Devices.
PPS	Profile Preparation Service: It calculates *profile* shapes by using algorithms and *interval energy data*. The calculation of the NSLP or the CLP.
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 ~~consumption data~~*metering data* to TIs ~~*trading intervals*~~.
Proposed Change Date	The proposed date on which ~~an End User~~a Role will transfer from one ~~*retailer* to another, entered as such in MSATS~~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 days under consideration occur after the current date.
Prospective Period	The maximum period in which a Prospective Change can be made.
~~Prospective Retailer~~	~~A *retailer* who may initiate a B2B Process to assuming responsibility for a specified *connection point* using the End User transfer process in MSATS.~~
Read Type Code	Types of *meter* readings detailed in Table 4-M~~L~~ of the CATS Procedures.
~~Reconciliation Process~~	~~The provision of the End User details for all of their End Users in a DNSP's area by a FRMP as at the time of the data extract.~~
Register Identifier Status Code	A code in MSATS that indicates if a Meter Register is active. See also section 4.11.4 of the CATS Procedures
~~Registration~~	~~The status granted by AEMO to an MP or MDP at the completion of the accreditation process.~~
~~Regulated Timeframe~~	~~The timing requirement imposed on a Service Provider by the relevant Jurisdictional instrument for the conduct of a regulated service.~~
Regulator	In the context of a RoLR Event, the Essential Services Commission of Victoria (for Victoria) and the *AER* for the rest of the *NEM*.
Rejected	One of the status points of a Change Request. It means that a Change Request fails a validation test in MSATS.
Requested	One of the status points of a Change Request.
Residential	As defined in the *NERL*.
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 days 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 *RoLR* by an End User (as appropriately classified in s.2 of the National Energy Retail Law) and agreed by the *retailer* to be its FRMP in a RoLR Event.
Role	The role an organisation has with a *connection point* in CATS. A single organisation can have more than one role associated with a ~~*connection point*~~*NMI*.
Role Code	As specified in section 4.3 of the CATS Procedures.

Term	Definition
~~Role Status~~	~~Current or New. For example:~~ ~~• The party shown on the NMI Master Record as performing that Role is the Current party.~~ ~~• The 'New' party is nominated on a Change Request that is still in progress.~~
RoLR Effective Transfer Date	The first *day* after the declaration of RoLR Event. This is the date from which *NMIs* for which the ~~suspended~~ Failed Retailer was the FRMP are transferred to their *RoLR*, making the RoLR the FRMP for those *NMIs*.
RoLR Event	An event that triggers the transfer of End Users to a *RoLR*.
RoLR Event Affected Jurisdiction	Jurisdiction~~s~~ affected by a RoLR Event.

RoLR Event Affected MSATS Participant	MSATS Participants potentially affected by a RoLR Event include:
	• MSATS Participants with a current Role for any *NMI* where the Failed ~~suspended~~ Retailer was assigned to one or more MSATS roles on the RoLR Effective Transfer Date, including:
	  ○ The Failed ~~suspended~~ Retailer (the current FRMP, LR or both).
	  ○ The Current LNSP.
	  ○ The Current MDP.
	  ○ The Current MPB.
	• The *RoLR* for each RoLR Event Affected NMI.
	• If the Failed ~~suspended~~ Retailer is a LR, the replacement LR.
	• MSATS Participants that have a Role for a *NMI* for which, at the time of the RoLR Event, the Failed~~suspended~~ 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	• *NMIs* where the Failed ~~suspended~~ Retailer was assigned to one or more Roles for the RoLR Effective Transfer Date; and • *NMIs* for which at the time of the RoLR Event, the Failed ~~suspended~~ Retailer was nominated as the New FRMP on a~~n In Progress~~ Change Request that is at one of the following status points: Requested, Objected or Pending Validation.
RoLR Key Contact	A contact specified in the NEM Retail Operations Contacts List.
RoLR Post Implementation Review	A review managed by AEMO ~~to verify that all of the objectives of~~to assess how a RoLR Event ~~were met~~was managed.
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 *metering installation* initiated by the ~~RP~~ MC or MP to fulfil their obligations under clause S7.3 of the NER.
Sample Test Plan	A statement of the sample size to be taken, the frequency of sample testing and the required accuracy. ~~MDM Procedures: The NMI classification code used to define a metering installation that forms part of the sample of metering data for use in a non NSLP profile shape application.~~
SCADA	Supervisory Control and Data Acquisition
Scheduled Meter Reading	An Actual Meter Reading on a Meter Reading date scheduled by the relevant MDP. ~~cycle that equates to the End User's billing cycle, usually monthly or quarterly.~~
Scheduled Reading Date	The date ~~of the next~~on which a Scheduled Meter Reading has occurred or might occur.
Second Tier NMI	The electricity associated with a *second tier load NMI*, which is purchased from a *retailer* other than the *Local Retailer*.
Second-Tier Controlled Load	A Controlled Load that is a *second-tier load*.
Second-Tier Non-Controlled Load	A Non-Controlled Load that is a *second-tier load*.
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 Provider~~	~~An MDP, MP or LNSP.~~
~~Single User ID Login~~	~~The ability to switch between different Participant IDs, without having to log out, change the Participant ID and password, and log in again.~~

Term	Definition
Site	The physical location of an End User's premises.
Special Meter Reading	An Actual Meter Reading ~~performed outside of the usual reading cycle for the *meter*~~taken on a date other than a Scheduled Reading Date.
Special Read Date	A date on which a Special Meter Reading is to occur.
SSL	Secure Socket Layer: A protocol for encrypting information over the internet.
~~Standing Data Access Rules~~	~~See NMI standing data access rules~~
Start Date	~~A data item required by BCT.~~ The date entered is the date from which the change will occur.
Structured Address	The structured address format contains the following information: • Flat type and flat number • Floor type and floor number • Building name • Location descriptor • House number and suffix • Lot number • Street name and street type • Suburb • Postcode • State
Substitution	A process undertaken for the ~~substitution~~ replacement of missing (null) or erroneous *metering data* or where *metering data* has failed Validation.
~~Suspended Retailer~~	~~A *retailer* that is the subject of a RoLR Event.~~
~~Threshold Level~~	~~A level specified by each Jurisdiction in terms of the amount of electricity consumed on an annual basis.~~
TI	*trading interval*
Tier 1 Site	~~See also *first-tier load.*~~ It is a site where the FRMP is the LR. This could be the case where: • The End User has transferred back to the LR as their *retailer* (FRMP) after a period with another *retailer*; • The site is not *contestable*; or • The site is *contestable* but the End User has not transferred to another *retailer*. See also *first-tier load.*
Tier 2 Site	~~See also *second-tier load.*~~ It is a site where the FRMP is not the same as the LR. This could be the case if: • a *contestable* End User has elected to transfer from the LR; or • an End User signed a contract with a *retailer* other than the LR prior to the *connection point* being established in the MSATS System and it was created as a Tier 2 Site. See also *second-tier load.*
Timeframe Rules	As described in section 4.6 of the CATS Procedures, the rules that allocate~~,~~ the number of *business days* to the following categories: • Objection Logging Period. • Objection Clearing Period. • Retrospective Period. • Prospective Period.
TNI Code	Transmission Node Identi~~ty~~fier: A four character alpha-numeric code used to identify a *virtual transmission node*.
TNSP	*Transmission Network Service Provider*
Transaction Type Code	A code used in MSATS to identify a need to change CATS Standing Data.
~~UMCP~~	~~Unmetered *connection point.*~~
Uncontrolled Unmetered Device	An Unmetered Device that operates 24 hours per *day* and has a variable *load* over a repeated operating cycle (e.g. traffic signal, where applicable)~~has a variable operating cycle~~.
Unmetered Device	Any electricity-consuming device that is installed at or near a *connection point* that is unmetered, and the *load* consumed at that *connection point* is a *market load*. There are two types of Unmetered Devices: Controlled Unmetered Devices and Uncontrolled Unmetered Devices.

Term	Definition
Unstructured Address	An address with the following format: • A string of text characters with a maximum length of 80 per line. • A maximum of 3 lines.
~~Usage Factor~~	~~The method of identifying a given Datastream's consumption in terms of its contribution to the overall sum of profile loads for a given date range.~~
Validation	A process to test the veracity and integrity of *metering data*.
VICAMI Meter	The *meter* installed in Victoria as part of the Advanced Metering Infrastructure mandate by the Victorian Jurisdiction.
VT	*Voltage transformer*
WIGS	Wholesale, Interconnector, Generator and Sample.
WIGS Procedures	The AEMO document entitled: MSATS Procedures: ~~Wholesale, Interconnector, Generator and Sample Procedures:~~ Procedure~~s~~ for the Management of Wholesale, Interconnector, Generatio~~n~~r, and Sample~~, or external *profiles*~~. (WIGS) NMIs.

CHAPTER 4. MSATS CODES

4.1 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.

4.2 Use of ENM

There should be no confusion in most cases where the MSATS code 'LNSP' is used. Where it is used in the context of *embedded networks*, however, the same code will be used to refer to ENMs.

The Retail Electricity Market Procedures will continue to refer to 'ENM' to identify the *Embedded Network Manager*.

4.3 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'.