

NMI STANDING DATA SCHEDULE

21 October 2016

PRESENTED BY TARYN MARONEY

AGENDA SLIDE

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All the analysis in these slides is based on:

- The Metering Competition Rule change (mainly chapter 7) that becomes effective on 1 December 2017;
- The procedures and instruments amended and created as a consequence of this Rule change that become effective on 1 December 2017; and
- The draft WA Rules as at 10 October 2016.

OVERVIEW OF CURRENT WA ARRANGEMENTS



- The Electricity Industry (Metering) Code 2012 Part 4 currently sets out the following:
 - Network operator's responsibility:
 - Update and maintain the metering data registry that includes standing data
 - Collection, processing and provision of *standing data*
 - Security of, ownership and rights of access to *standing data*
 - Transfer of standing data between relevant parties
 - Access to standing data - the network operator, a user who is a retailer or generator (whether local or remote) to the standing data, or a user to satisfy Code of Conduct obligations.
- Minimum standing data items are set out in section 4.3 of the Metering Code.
- The Electricity Industry Metering Code 2005 Communication Rules allows standing data to be removed, modified or items added.
- Western Power Build Pack – Customer Transfer and Standing Data Procedure sets out the current processes for the management of standing data in the WA market.

- The draft WA Rules adopt clause 3.13.12 of the National Electricity Rules (NER), which refers to the NMI Standing Data Schedule.
- Clause 3.13.12 of the NER relates to jurisdictions that have not adopted the National Energy Customer Framework, for example Victoria.
- The NMI Standing Data Schedule includes information AEMO requires for connection points in NEM jurisdictions.
- The NMI Standing Data Schedule is available at:
<https://www.aemo.com.au/Stakeholder-Consultation/Consultations/-/media/5FCF1D00BBB04275989D499BF3C7181C.ashx>

NMI STANDING DATA SCHEDULE - RIGHTS AND OBLIGATIONS



Provision of NMI Standing Data

- Registered Participants, MDPs, and MPs must provide AEMO with the data elements of the NMI Standing Data Schedule, for which they are responsible, in accordance with the CATS Procedures.

Access to NMI Standing Data

- Prospective retailers who are also Registered Participants may access the NMI Standing Data Schedule for the purposes of:
 - Providing an End User with a quotation or proposal for that End User's supply of electricity while seeking to be the FRMP for that End User's connection point;
 - Entering a Change Request to change retailer in order to become the FRMP for the End User's connection point; or
 - Arranging the relevant connection.
- Registered Participants and others may access the NMI Standing Data Schedule in accordance with the NER and CATS Procedures.

NMI STANDING DATA SCHEDULE – KEY DATA ELEMENTS



NMI standing data is a NER defined term and the key elements are included in the schedule below. Note, WA draft rules does not include an embedded network manager, hence the Embedded Network Code is not relevant.

NMI Standing Data Schedule

NMI	Jurisdiction Code	Register Identifier
NMI Checksum	LNSP	Register Identifier Status Code
NMI Classification Code	Meter Serial ID	Street Address
NMI Status Code	Meter Register Status Code	Time Of Day
DLF Code	Metering Installation Type Code	TNI Code
Datastream	Network Tariff Code	Unit of Measure
Datastream Status Code	NSRD	
Embedded Network Code	Profile Name	

COMPARISON OF NMI STANDING DATA – NEM VS WA



NEM NMI Standing Data	WA Reference from Metering Code
DLF Code	distribution loss factor
Flat Number	details of the address of the metering point in a format specified in the communication rules
Location Descriptor	location of the metering equipment on the site and reference details (eg drawing numbers)
Meter Serial ID	meter serial numbers
Metering Installation Code	meter type
Multiplier for billing	summation scheme values and multipliers – may not be the same
Network Tariff Code	network tariff description
Next Scheduled Read Date	last and next date for a scheduled meter reading; or

COMPARISON OF NMI STANDING DATA – NEM VS WA (CONT.)



NMI Standing Data	WA Reference from Metering Code
Route	reading day number,
Building/Property name	site identification names
Data Stream Type code (interval/basic)	metering installation Type
Transformer Ratio	instrument transformer connected ratio
Next Test Date	reference to current test and calibration program details, test
Test & Calibration Program	results and test certificates
Test Result Accuracy	
Test Result Notes	
Register ID – on the meter	data register coding details
NMI suffix stream of data	

COMPARISON OF NMI STANDING DATA – NEM VS WA (CONT.)



NMI Standing Data	WA Reference from Metering Code
Not populated	telephone numbers for access to data
Not populated	communication device type and serial numbers
Not populated	communication protocol details or references
Not populated	user identification and access rights
Not populated	'write' password (to be contained in a hidden or protected field)

RELATED DOCUMENTS

Procedure Title	Location
CATS Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions
NMI Standing Data for MSATS	https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/CCA26FEE3E6D434AA4DD313322E267AE.aspx
WIGS Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions
MDFF Specification	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
Retail Market Procedures – Glossary and Framework	http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Glossary-and-Framework

NMI STANDING DATA AND MSATS

- MSATS includes more items than those listed in the NMI Standing Data Schedule. The CATS Procedures sets these out and will be discussed in the MSATS session in December.
- There are five key MSATS master tables that include NMI standing data:

Table	Summary of Contents
CATS_NMI_DATA	Address, TNI, DLF, aggregate flag, embedded network, names, jurisdiction, NMI status, etc
CATS_NMI_PARTICIPANT_RELATIONS	Roles and associated participants. Separate records are maintained for each role / participant relationship.
CATS_NMI_DATA_STREAM	Suffix, ADL, profile name, datastream type and datastream status of each MDM datastream.
CATS_METER_REGISTER	Meter serial no, meter type, meter manufacturer, testresults, etc
CATS_REGISTER_IDENTIFIER	Meter serial, network tariff code, unit of measure etc

- AEMO uses aseXML Standards, for further information see: https://www.aemo.com.au/Gas/IT-systems-and-change/aseXML_standards.
- WA currently uses waeXML, which is an earlier version of aseXML.

INITIAL PROVISION AND MAINTENANCE OF NMI STANDING DATA

- LNSP provides initial NMI sub-set standing data to register a NMI in MSATS.
- Creation of a new NMI, extracted from section 11 of the CATS Procedure:

The New LNSP must:

- (a) Obtain the NMI Checksum from an approved source.
- (b) Confirm that the *NMI* is a valid *NMI* for the *connection point* prior to the Initiation of a Change Request.
- (c) Populate a Change Request with the following information:

Change Reason Code	Participant Transaction ID	NMI and NMI Checksum
Its Participant ID	Proposed Change Date	TNI Code
DLF Code	NMI Classification Code	Jurisdiction Code
FRMP (as nominated)	LR	RoLR
RP	MDP	MPB
MPC	NMI Status Code	Locality
State	Postcode	

- (d) Nominate itself as the New LNSP.
- (e) Populate the Change Request with values for the following address fields (as appropriate):

EITHER

DPID	Flat Number	Flat Type
Floor Number	Floor Type	House Number
House Number Suffix	Location Descriptor	Lot Number
Street Name	Street Suffix	Street Type

OR

Unstructured Address 1	Unstructured Address 2	Unstructured Address 3
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INITIAL PROVISION AND MAINTENANCE OF NMI STANDING DATA



- Once a NMI is registered, the CATS Procedures identify how NMI sub-set data can be maintained. Some examples below:

NMI Sub-set Standing Data	Responsible
Backdate a NMI start date	AEMO or LNSP
Customer Classification Code (business/Residential)	FRMP
Next scheduled read date	MDP

- Based on our analysis to date based on draft Rules received, we do not anticipate material changes to the NMI Standing Data Schedule.
- AEMO's assumption is that the NMI Standing Data Schedule supersedes the WA Metering Code and Western Power Build Pack.
- All WA NMIs will need to be created/migrated to MSATS, including contestable and non-contestable NMIs with required subset of data used in the NEM.
- WA participants will use the latest NEM aseXML version.
- All mandatory NEM NMI Standing Data will be provided.

- AEMO will consider how the transfer of WA NMI standing data can occur.
- AEMO expects to commence consultation on this Procedure in March 2017.

QUESTIONS



For further questions and feedback: WAMRPRetail@aemo.com.au

RETAILER OF LAST RESORT

21 October 2016

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AGENDA SLIDE

1. Overview of WA Arrangements - Supplier of Last Resort
2. Assumptions for Future WA Arrangements
3. Overview of NEM Arrangements – Retailer of Last Resort
4. AEMO related documents
5. Key RoLR Roles and Responsibilities
6. High Level RoLR Process
7. Assumptions and Next Steps
8. RoLR – Risks / Questions
9. Questions and Feedback

OVERVIEW OF WA ARRANGEMENTS - SUPPLIER OF LAST RESORT



- Part 5 of the Electricity Supply Act 2004 includes the head of power for Supplier of Last Resort (SoLR).
- In 2009, the ERA designated SWIS to be an area that needed a SoLR plan.
- ERA notified Synergy that it was to prepare a SoLR plan for the SWIS.
- Synergy has noted there are insufficient institutional arrangements to support the SoLR scheme.
- PUO are reviewing these arrangements.
- Currently, since WA has not adopted the National Energy Customer Framework (NECF), the WA SoLR arrangements remain the responsibility of the ERA and Synergy.

ASSUMPTIONS FOR FUTURE WA ARRANGEMENTS



- As the retail market operator, AEMO will provide input into the development of the WA SoLR arrangements to:
 - Ensure adequate processes and systems are in place to efficiently transfer NMI from the 'failed retailer' to the 'new retailer'
 - Cancellation of open transactions.
- For consistency and efficiency reasons, it is assumed that AEMO's existing RoLR processes will be used.
- RoLR field in related NEM systems and transactions will not be changed to SoLR.
- AEMO assumes the WA SoLR arrangements will be finalised by end of January 2017 for AEMO to commence consultation in March 2017 on the NEM RoLR Procedures to incorporate WA.

OVERVIEW OF NEM ARRANGEMENTS - RETAILER OF LAST RESORT



- Part 6 of the National Electricity Retail Law includes the head of power for the NEM's RoLR arrangements to protect customers in the event of retailer failure.
- The AER is responsible for administering several aspects of the NEM's RoLR scheme, including:
 - Registering default and additional RoLRs. Publishing and maintaining a register of RoLRs
 - Appointing designated RoLRs in relation to RoLR event
 - Publishing RoLR guidelines and RoLR plans
 - Conducting RoLR exercises simulating RoLR events
 - Making RoLR cost recovery scheme determinations.

OVERVIEW OF NEM ARRANGEMENTS - RETAILER OF LAST RESORT (CONT.)



- A 'RoLR event' is the term used to describe an event that triggers a requirement to transfer a group of NMIs and, as a consequence, end use consumers, from a retailer that has been suspended from the NEM (referred to a suspended retailer in the NEM RoLR Processes) to the RoLR for each of those NMIs.
- In the NEM RoLR Processes, the term RoLR describes the Retailer that would take over financial responsibility for a NMI if a NMI's retailer current retailer cannot fulfil its responsibilities.

OVERVIEW OF NEM ARRANGEMENTS - RETAILER OF LAST RESORT (CONT.)



- The NEM RoLR process:
 - AER declares a RoLR event following either:
 - A Retailer's electricity license or authorisation being revoked or suspended in one or more jurisdictions.
 - AEMO suspending a Retailer for defaulting in performance of its NER obligations.
 - AER can appoint a designated RoLR AER deems the transfer date to the designated RoLR.

OVERVIEW OF NEM ARRANGEMENTS - RETAILER OF LAST RESORT (CONT.)



- A suspended retailer would not be able to act in any roles following the suspension date.
- Where a RoLR event occurs, AEMO is involved because transfers of information are required for NEM settlements, for retailers to bill their end use customers and LNSP's to bill retailers correctly.
- AER is responsible for enforcing the RoLR Procedures.
- The RoLR Procedures, see:
<https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/77DE37C582FC4877B5F81DC2BE8E4854.ashx>

OVERVIEW OF NEM ARRANGEMENTS - RETAILER OF LAST RESORT (CONT.)



- The RoLR Procedures set out the obligations on all affected roles (AEMO, Failed Retailer, LNSP, RoLR and MDP's), including the data that one party must provide to another and the timeframe in which the obligations must be fulfilled.

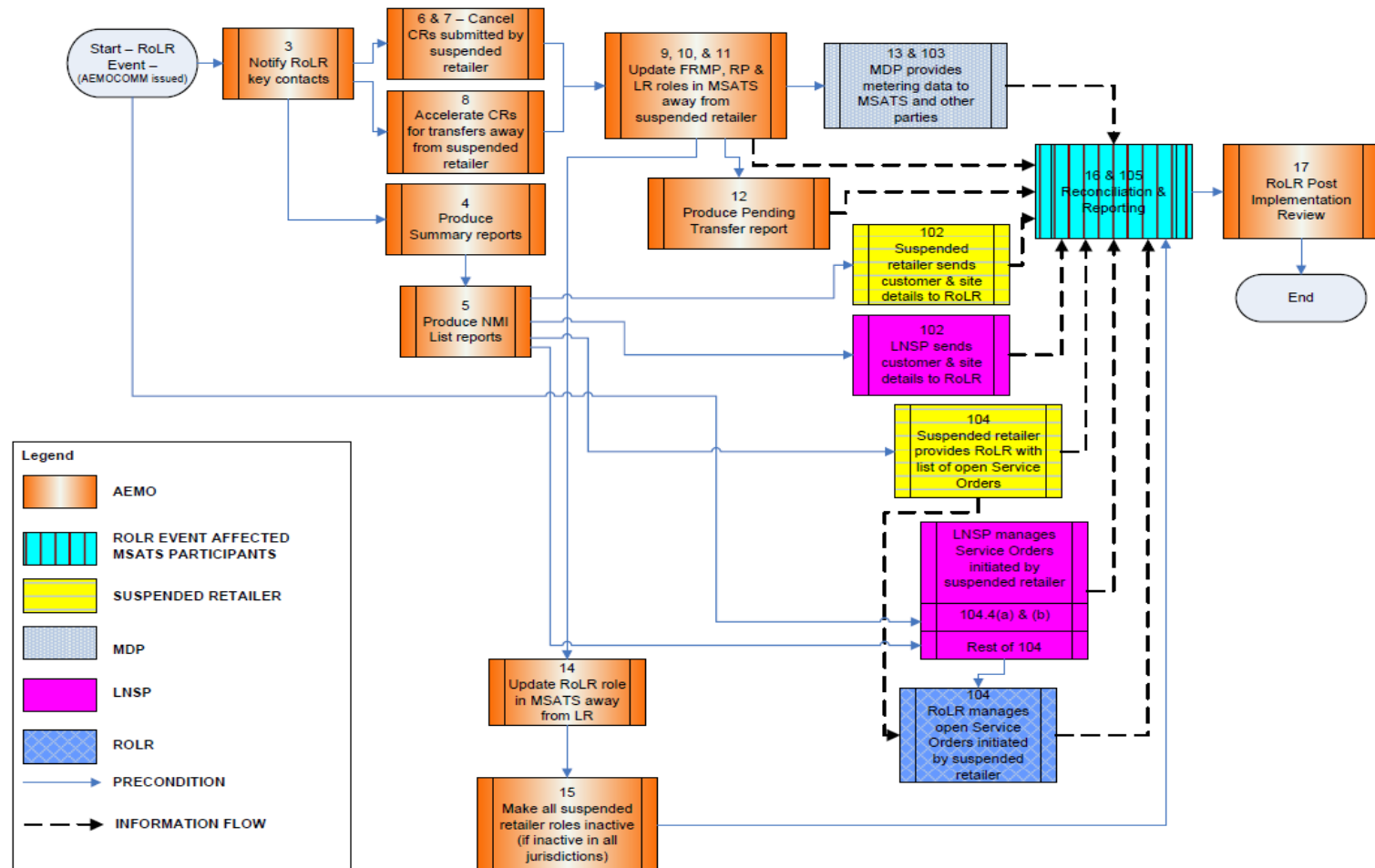
RoLR Activity	Responsible
Default RoLR Appointment	AER
RoLR Event Instructions: Includes guidelines, plans & standing instructions	AER
Wholesale Settlements Includes MCL assessment post RoLR events	AEMO
Determination on Market Suspension	AEMO
Customer Transfers Bulk transfer of affected connection points	AEMO
Financial Capacity	AER, AEMO
Customer Data	Failed retailer, Distributor, AEMO
Meter Read Data	Distributor, Meter Data Agent

RELATED DOCUMENTS

Procedure Title	Location
MSATS Procedures – CATS, WIGS and MDM	http://www.aemo.com.au/Stakeholder-Consultation/Consultations/-/media/5FCF1D00BBB04275989D499BF3C7181C.ashx
Technical Guide to bulk data tool in MSATS	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/83F8BAD8123E47B8A5EFA54BCE3A3EB8.ashx
Standing Data for MSATS	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/CCA26FEE3E6D434AA4DD313322E267AE.ashx
Metrology Procedures, Part A and B	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metering-procedures-guidelines-and-processes
B2B Procedures	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
Service Level Procedures – MDP Services	http://www.aemo.com.au/Stakeholder-Consultation/Consultations/-/media/5FCF1D00BBB04275989D499BF3C7181C.ashx

HIGH LEVEL ROLR PROCESS

High level summary of the scope of the NEM RoLR Processes document showing main obligations, by clause number and by role, main preconditions & main information flows



KEY ROLR ROLES AND RESPONSIBILITIES



Key Responsibilities	Responsible
<ul style="list-style-type: none">• Notify of a RoLR event – NEM and regulatory bodies.• Ensure all RoLRs for the affected NMIs are assigned as FRMP, and if necessary, LR and MC.• Ensure any MSATS Participant IDs belonging to the Suspended Retailer are inactive by the RoLR effective transfer date.• Produces and delivers various reports, for example RoLR and NMI List reports.• Cancels Suspended Retailers MSATS change requests.	AEMO
<ul style="list-style-type: none">• Create and maintain up-to-date key RoLR contact details in the NEM Retail Operations Contacts List.	Participants and service Providers, Suspended Retailer
<ul style="list-style-type: none">• Provide each RoLR with the customer and site details data specified in Table 102-A Part B of the B2B Procedure.• Obtain and keep a list of all Service Orders raised by the suspended Retailer that have ServiceOrderResponse transaction is yet to be provided.• Activities post RoLR event.	LNSP

KEY ROLR ROLES AND RESPONSIBILITIES (CONT.)



Key Responsibilities	Responsible
<ul style="list-style-type: none">• Ensure that a nominated key RoLR contact is available.• Provide each RoLR with the customer and site details of each NMI to be transferred to a RoLR, these are specified in Table 102-A Part B of the B2B Procedure.• Stop raising Service Order Requests after the RoLR event.• Provide each RoLR with a list of Service Orders that have been raised.• Continue to meet any NEM rules and procedure requirements.	Suspended Retailer
<ul style="list-style-type: none">• For each NMI that a MSATS change request notification has been received for, provide metering data up to the RoLR effective transfer date to MSATS and entitled MSATS participants.	MDP
<ul style="list-style-type: none">• If required, initiate a new Service Order with the LNSP to have the service undertaken• Activities post RoLR event.	RoLR

- When WA arrangements are reviewed, as the retail market operator, AEMO will provide input into the development of the WA SoLR arrangements to:
 - Ensure adequate processes and systems are in place to efficiently transfer NMIs from the ‘failed retailer’ to the ‘new retailer’
 - Cancel cancellation of open transactions.
- It is assumed that AEMO’s existing RoLR processes will be used for WA and no material changes will be made.
- Based on the WA draft Rules as at 10 October 2016, the WA SoLR scheme will equate to NEM RoLR. The RoLR Procedures will need to be updated to reflect this.
- AEMO expects to commence consultation on NEM RoLR Procedures to incorporate WA in March 2017.

- After WA rules and local instruments are finalised, further analysis of the NEM RoLR Procedures will be undertaken to incorporate WA prior to AEMO's consultation commencing in March 2017.
- All WA participants will need to be familiar with the information familiar required in the RoLR Procedures to ensure they collect the necessary information and are prepared in a RoLR event.
- AEMO assumes that all necessary information outlined in the RoLR Procedures is currently collected. If not, AEMO assumes that WA participants will be ready to collect this information from 1 July 2018.

Some questions to consider:

- Will ERA continue to appoint the SoLR for the SWIS?
- Who declares a WA RoLR event and how is it declared?
- Will the WA final rules and local instruments refer to SoLR or RoLR?
- Who will enforce RoLR Procedures on WA – ERA or AER or another party?
- WA participants will need to review and be aware of RoLR Procedures and their obligations to be prepared for a RoLR event.

QUESTIONS



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