

Consumer Data Right (CDR) MSATS Consultation

Final Report and Determination – Part 1
– Various Minor Matters

Published: 12 September 2022

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Australian Energy Market Operator Ltd ABN 94 072 010 327

Notice of Final Report and Determination – Consumer Data Right (CDR) MSATS Consultation – Part 1

National Electricity Rules – Rule 8.9

Date of Notice: 12 September 2022

The publication of this Final Report and Determination Part 1 (Final Report Part 1) concludes AEMO's consultation (Consultation) on the minor changes (Minor Changes) to the retail electricity market procedures (Procedures) which are required to implement the consumer data right (CDR).

AEMO's publication of the Final Report Part 1 seeks to maximise the time available to Participants to prepare to implement the Minor Changes from 7 November 2022.

The consultation is being conducted under clause 7.16.7 of the National Electricity Rules (NER), in accordance with the Rules consultation requirements detailed in NER 8.9.

Publication

All submissions will be published on AEMO's website, other than confidential content.

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Executive Summary

In recognition of the complex matters raised by respondents related to the CDR's implementation of Consumer Data Right, AEMO published the draft determination and procedures (Draft Report) in two parts. This separation was performed to allow:

- Participants to have as much time as possible to prepare to implement the Minor Changes being proposed from 7 November 2022; and
- AEMO and stakeholders to consider and evaluate the number of complex issues which are associated with CDR.

The publication of this Final Report Part 1 concludes the Consultation on the Changes to the following Procedures:

- Standing Data for MSATS document;
- Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligations; (MSATS Procedure – CATS); and
- Procedure for the Management of Wholesale Interconnector, Generator and Sample (WIGS) NMIs (MSATS Procedure – WIGS).

Summary of Change Proposals Procedure	Type of Change	Proposed Effective Date	Change Proposal
Standing Data for MSATS document v5.31	Amendment	7 November 2022	<ul style="list-style-type: none"> • Minor Amendments, including those associated to the ERCF's ICF_062 (GPS Coordinates values where no GPS coverage is available at the metering installation) and ICF_063 (additional Transformer Valid Values)
MSATS Procedures – CATS v5.31	Amendment	7 November 2022	<ul style="list-style-type: none"> • Minor Amendments, including those associated to the ERCF's CiP_061 (Meter Manufacturer and Model CR305X change request changes)
MSATS Procedures – WIGS v5.31	Amendment	7 November 2022	<ul style="list-style-type: none"> • Allow the ENLR (LR) to object to CR5021 • Addition of BULK and XBOUNDARY to CR1500 to allow MDPs to complete

1. Stakeholder Consultation Process

AEMO's indicative timeline for the Consultation is outlined below.

Deliverable	Indicative date
Issues Paper published	Wednesday, 27 April 2022
Issues Paper submissions closed	Thursday, 2 June 2022
Draft Report Part 1 published	Friday, 29 July 2022
Draft Report Part 1 submissions closed	Monday, 15 August 2022
Draft Report Part 2 published	Monday, 12 September 2022
Final Report Part 1 published	Monday, 12 September 2022
Draft Report Part 2 submissions closed	Tuesday, 27 September 2022
Final Report Part 2 published	Tuesday, 8 November 2022

These dates may be adjusted depending on the number and complexity of the issues which are raised in submissions.

A glossary of terms is at Appendix A.

2. Background

2.1. NER requirements

AEMO is responsible for the establishment and maintenance of metering procedures specified in NER Chapter 7 except for procedures established and maintained under NER 7.17.

The procedures authorised by AEMO under NER Chapter 7 must be established and amended by AEMO in accordance with the Rules consultation procedures.

2.2. Context for this consultation

2.2.1. Minor Changes

The Minor Changes are outlined in the tables below.

Standing Data for MSATS document

	Section	Description
	Table 3 CATS_METER_REGISTER – Field Definitions	For the Data Element Name “CurrentTransformerTest” enumerations have been changed from mixed case to upper case.
	Table 27 Valid Transformer Fields Values	For VT Type - Valid Values the description in brackets have been removed.
	Table 27 Valid Transformer Fields Values	Addition of missing Transformer Valid Values and reconfigured values from smallest to largest.
	Table 27 Valid Transformer Fields Values	Where ratio enumerations exist, the spaces between ratios have been removed to align with the enumerations list in MSATS.
	Table 28 Valid Meter Use Codes	The enumerations for the ‘Use’ field values of ‘INFORMATION’ and ‘STATISTICAL’ are to be truncated to ‘STATIS’ and ‘INFORM’ to fit within the 10 character limit.
	Table 12 CATS_NMI_DATA – Fields Definitions	For the Data Element “Building Or Property Name” reference to AS4590 has been included.
	Table 4 CATS_Meter_Register – Browser Cross Reference	Alignment of the GPS Coordinates Latitude and GPS Coordinates Longitude to align with format implemented in r42 Schema.
	Table 4 CATS_Meter_Register – Browser Cross Reference	CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected have their element names truncated in the MSATS codes table which requires to be reflected in the Standing Data for MSATS document.

	Section	Description
	Table 4 CATS_Meter_Register – Browser Cross Reference	Correction of the VoltageTransformerTest in MSATS enumerations list.
	Table 3 CATS_METER_REGISTER – Field Definitions	Addition of a specific value of 0.00000 (5-7 decimal places) where no GPS coverage is available at a metering point.

MSATS Procedures – CATS

	Section	Description
	Clause 10.3.4 (d)	Change wording to state that manufacturer and model is not required where meters are being removed.
	13.5.7 Table 13-M	Remove CR6500/1 Change ROLR completed notification.
	12.2.9 Objection Rules Table 12-D	Include NMI classification code NCONUML.

MSATS Procedures – WIGS

	Section	Description
	Table 7-B-Objection Rules CR 5021 – Backdate NMI Start Date - Child	Allow the ENLR (LR) to object to CR5021.
	Clause 3.1.2 Conditions Precedent	Addition of BULK and XBOUNDARY to CR1500 to allow MDPs to complete.

2.3. First stage consultation

On 27 April 2022, AEMO issued the Notice of First Stage Consultation and published the Issues Paper, as well as the initial draft amended Procedures. These materials are available on AEMO's website:

<https://aemo.com.au/en/consultations>

The Issues Paper included a summary of the Minor Changes and the Substantive Changes, as well as details on AEMO's stakeholder engagement, including through the Electricity Retail Consultative Forum (ERCF).

In response, AEMO received 15 submissions. AEMO has published copies of all written submissions (excluding any confidential information) on AEMO's website at:

<https://aemo.com.au/consultations/current-and-closed-consultations/consumer-data-rights-msats-consultation>.

2.4. Second stage consultation

Part 1

On 29 July 2022, AEMO issued the Notice of Second Stage Consultation, Draft Report Part 1 and draft amended Procedures. This information is available at <https://aemo.com.au/consultations/current-and-closed-consultations/consumer-data-rights-msats-consultation>. The Draft Report Part 1 included a summary of the Changes, as well as details of AEMO's stakeholder engagement, including through the ERCF.

In response, AEMO received four submissions. AEMO has published copies of all written submissions (excluding any confidential information) on AEMO's website at <https://aemo.com.au/consultations/current-and-closed-consultations/consumer-data-rights-msats-consultation>.

3. Summary of Material Issues

No material issues were raised by the Consulted Persons.

4. Final Determination Part 1

The majority of respondents supported the proposed Minor Changes. As a result, AEMO's conclusion is to update the Procedures accordingly.

AEMO has published the Procedures which incorporate the Changes.

The change-marked versions are available at: <https://aemo.com.au/consultations/current-and-closed-consultations/consumer-data-rights-msats-consultation>. To request an editable version of the Procedures in .rtf format, please email NEM.Retailprocedureconsultations@aemo.com.au. The pdf version is always the official version.

Appendix A. Glossary

Term or acronym	Meaning
Accredited Data Person/Recipient (ADR)	ADR are the 'receivers' in the Consumer Data Right system. These are the providers who receive a consumer's data after the consumer has given their consent. The providers then use it for the purpose the consumer has requested
CATS	Consumer Administration and Transfer Solution, a part of MSATS.
CDR Consumer	A person or individual who holds relevant authority to share consumer data
Consumer Authentication	Identification of the individual as the rightful CDR consumer – i.e. CDR data owner
Consumer Authorisation	Permission granted by consumers to Data holders to the disclosure of their CDR data to an accredited person
Consumer consent	Permission given from the CDR consumer to the ADR to submit a request on their behalf to retrieve that consumer's data
Consumer Dashboards	An online service that can be used by CDR consumers to manage their consent/authorisations. As per current legislation, each ADR and DH (excluding secondary) are required to provide dashboards
CR	Change Request
Data Holder (DH)	DH are the 'givers' in the Consumer Data Right system. They are the providers who currently hold the consumer data.
DNSP	Distribution Network Service Provider
ERCF	Electricity Retail Consultative Forum
ICF	Issue / Change Form
LNSP	Local Network Service Provider
LR	Local Retailer
MC	Metering Coordinator
MDP	Metering Data Provider
MP	Metering Provider
MPB	Metering Provider Category B
MSATS	Market Settlements and Transfer Solution
NEM	National Electricity Market
NER	The National Electricity Rules made under Part 7 of the National Electricity Law
NERL	National Energy Retail Law
NMI	National Metering Identifier
Secondary Data Holder (SDH)	Data holders (energy retailers specifically) may request data from secondary data holders (SDH) in order to fulfill a data request from an ADR. AEMO is considered a secondary data holder. ADRs cannot directly request data from an SDH.

Appendix B. Summary of Submissions and AEMO Responses

No.	Question	Consulted person	Participant comment	AEMO response
1	For the enumerations lists in the procedures document, values such as 'Sample Tested' and 'Three-Phase Three-Limb', to be changed from mixed case to uppercase, to improve implementation and validation for both AEMO and Industry.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
2	For the enumerations lists in the procedures document, values such as 'Sample Tested' and 'Three-Phase Three-Limb', to be changed from mixed case to uppercase, to improve implementation and validation for both AEMO and Industry.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
3	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
4	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
5	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	AGL	AGL supports the change; AGL notes that consistency in format/convention for ratios and other lists of enumerations should be reviewed - eg 200:1 vs 2000:01	AEMO notes the respondent's support for this change.
6	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
7	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	PLUS ES	Generally, PLUS ES is supportive of opportunities to clean up formatting. In this example, our objection was based on the timing of the change and the absence of any qualification for this change. There was no pre-notice that the change was coming until the Issue Paper was published, 4mths after the publication of the latest version of the final document. The common adage of making changes for change sake.	AEMO notes the respondent's comment and apologies for any inconvenience caused.

No.	Question	Consulted person	Participant comment	AEMO response
			<p>When does a participant have the confidence and flexibility in their program of works that they may proceed with their build without having to apply additional resourcing to undo/redo changes?</p> <p>Additionally, just because other participants have not called out opposition to the change, one cannot assume they have ascertained the potential impacts that one participant has identified and therefore support the change for this nuance.</p>	
8	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	AGL	AGL supports the change, but notes Telstra's comment and agrees with their submission, that STATS would be more easily recognisable and less likely to be mixed up with status.	AEMO notes the respondent's comment.
9	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Origin Energy	Origin does not have any issues with the proposed approach, although STATISTIC might be a better alternative instead of STATIS.	AEMO notes the respondent's comment.
10	Alignment of character requirements across aseXML and the Standing Data for MSATs MSATS document by including a reference to the Australian Standards requirements, where relevant in the document applicable.	AGL	AGL supports the change but notes that a process will be required to monitor the standard for any changes which may impact MSATS.	AEMO notes the respondent's support for this change.
11	Alignment of character requirements across aseXML and the Standing Data for MSATs MSATS document by including a reference to the Australian Standards requirements, where relevant in the document applicable.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
12	For the correction of the GPSCoordinates format, implemented in AGL supports the change as part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
13	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document:	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
	CATS_Meter_Register- Browser Cross Reference table.			
14	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
15	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
16	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
17	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
18	For GPS Coordinates of 0.00000 (5-7 decimal places), to align with the format specified in the NMI Standing Data Procedure, to be applied where no GPS coverage is available at the metering installation.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
19	For GPS Coordinates of 0.00000 (5-7 decimal places), to align with the format specified in the NMI Standing Data Procedure, to be applied where no GPS coverage is available at the metering installation.	CitiPower Powercor	CitiPower Powercor opposes this change as sending a value of 0.0000000 causes unnecessary changes to participants systems and has the same effect as a sending 0. We did not provide this feedback in the initial round of the consultation but have have since undertaken further analysis and believe the change is unnecessary.	AEMO notes the respondent's comment. The proposed value of 0.0000000 was initially suggested and supported by the ERCF (ICF_062) prior to formal consultation commencing.

No.	Question	Consulted person	Participant comment	AEMO response
20	For GPS Coordinates of 0.00000 (5-7 decimal places), to align with the format specified in the NMI Standing Data Procedure, to be applied where no GPS coverage is available at the metering installation.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
21	For the inclusion of missing Transformer Valid Values to be added to the Standing Data for MSATS document and for all values to be formatted from smallest to largest.	AGL	AGL supports the change – but questions if this list should also be removed from the procedures and made an external enumerated list as part of this process	AEMO notes the respondent's support for this change. AEMO notes the management of enumerations is outside the remit of this consultation.
22	For the inclusion of missing Transformer Valid Values to be added to the Standing Data for MSATS document and for all values to be formatted from smallest to largest.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
23	The CATS Procedures to be updated to ensure that 'Meter Manufacturer' and 'Meter Model' are only required when the status code is 'C' (Current) for CR3050 and CR3051 transactions (CiP_061).	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
24	The CATS Procedures to be updated to ensure that 'Meter Manufacturer' and 'Meter Model' are only required when the status code is 'C' (Current) for CR3050 and CR3051 transactions (CiP_061).	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
25	The CATS Procedures to be updated to ensure that 'Meter Manufacturer' and 'Meter Model' are only required when the status code is 'C' (Current) for CR3050 and CR3051 transactions (CiP_061).	PLUS ES	The change marked update has been removed from the 2 nd stage CATS doc. Please revert to the original (1 st stage) mark up to capture the intent/proposal for correction. 1 st stage mark up which was consulted and PLUS ES supported:	AEMO notes the respondent's comment, this has been amended.

No.	Question	Consulted person	Participant comment	AEMO response																		
			<p>(d) For each <i>meter</i> associated with the <i>NMI</i> where the Meter Register Status Code is to be 'C', populate the Change Request with the following information (where this information does not currently exist in MSATS):</p> <table border="1" data-bbox="909 411 1673 469"> <tr> <td>Meter Register Status Code</td> <td>Metering Installation Type Code</td> <td>Meter Manufacturer</td> </tr> <tr> <td>Meter Model</td> <td>Meter Use</td> <td></td> </tr> </table> <p>(e) For all Register IDs associated with the <i>NMI</i>, where the Register Identifier Status Code is to be 'C' populate the Change Request with the following information (where this information does not currently exist in MSATS):</p> <table border="1" data-bbox="909 560 1673 617"> <tr> <td>MDM Contributory Suffix (for a register)</td> <td>Network Tariff Code</td> <td></td> </tr> </table> <p>2nd stage marked up documentation:</p> <ul style="list-style-type: none"> the additional clarification has been removed from clause 10.3.4(d) and clause (e) pre-existing wording has been accidentally marked up as there are no changes to existing wording. This mark up does not deliver the requirement with respect to <i>current</i> metering and populating the Manufacturer and Model fields. <div data-bbox="860 804 1619 1038" style="border: 1px solid black; padding: 5px;"> <p>(d) For each <i>meter</i> associated with the <i>NMI</i> populate the Change Request with the following information (where this information does not currently exist in MSATS):</p> <table border="1" data-bbox="931 863 1568 906"> <tr> <td>Meter Register Status Code</td> <td>Metering Installation Type Code</td> <td>Meter Manufacturer</td> </tr> <tr> <td>Meter Model</td> <td>Meter Use</td> <td></td> </tr> </table> <p>(e) For all Register IDs associated with the <i>NMI</i> where the Meter Register Status Code is to be 'C', where the Register Identifier Status Code is to be 'C' populate the Change Request with the following information (where this information does not currently exist in MSATS):</p> <table border="1" data-bbox="931 994 1568 1031"> <tr> <td>MDM Contributory Suffix (for a register)</td> <td>Network Tariff Code</td> <td></td> </tr> </table> </div>	Meter Register Status Code	Metering Installation Type Code	Meter Manufacturer	Meter Model	Meter Use		MDM Contributory Suffix (for a register)	Network Tariff Code		Meter Register Status Code	Metering Installation Type Code	Meter Manufacturer	Meter Model	Meter Use		MDM Contributory Suffix (for a register)	Network Tariff Code		
Meter Register Status Code	Metering Installation Type Code	Meter Manufacturer																				
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Meter Register Status Code	Metering Installation Type Code	Meter Manufacturer																				
Meter Model	Meter Use																					
MDM Contributory Suffix (for a register)	Network Tariff Code																					
26	For the CATS Procedures to be updated to remove the CR6500/1 Change ROLR Completed Notification from the Change ROLR section to align with the WIGS Procedures	AGL	AGL supports the change	AEMO notes the respondent's support for this change.																		
27	For the CATS Procedures to be updated to remove the CR6500/1 Change ROLR Completed Notification from the Change ROLR section to align with the WIGS Procedures	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.																		

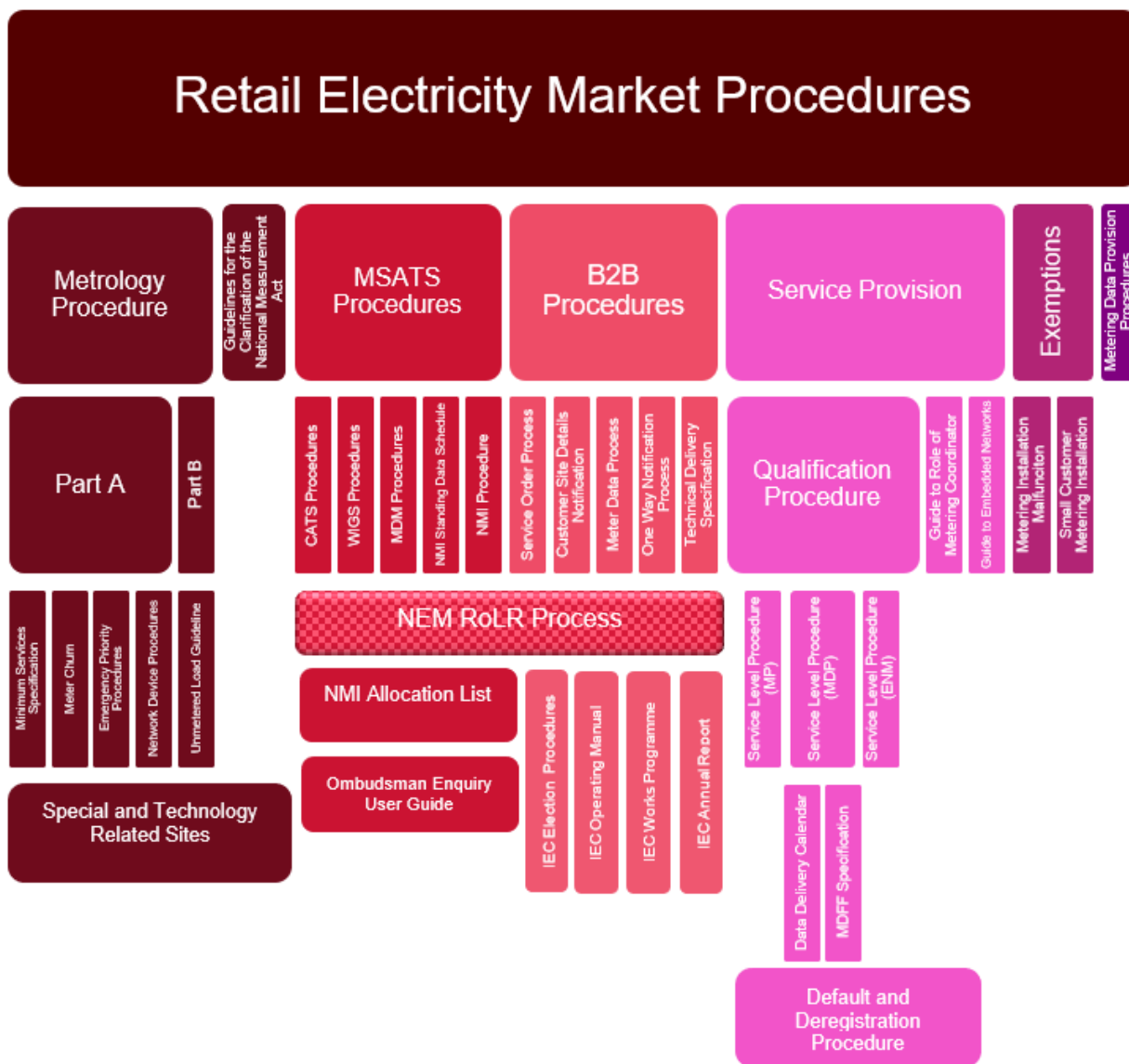
No.	Question	Consulted person	Participant comment	AEMO response
28	For the CATS Procedures to be updated for CRs (5001 & 5021) to include the NMI Classification of NCONUML as a classification code that have objections raised on it	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
29	For the CATS Procedures to be updated for CRs (5001 & 5021) to include the NMI Classification of NCONUML as a classification code that have objections raised on it	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
30	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
31	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
32	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	AGL	AGL supports the change	AEMO notes the respondent's support for this change.
33	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Origin Energy	Origin supports this change, in line with the previous feedback.	AEMO notes the respondent's support for this change.
34	MSATS Procedure CATS 10.3 Change Metering Installation Details 10.3.4 e.	Origin Energy	<p>For all Register IDs associated with the NMI where the Meter Register Status Code is to be 'C', where the Register Identifier Status Code is to be 'C' populate the Change Request with the following information (where this information does not currently exist in MSATS)...</p> <p>Origin suggests wording change as per below:</p> <p>For all Register IDs associated with the NMI where the Meter Register Status Code is to be 'C', where and the Register Identifier Status Code is to be 'C' populate the Change Request with the following information (where this information does not currently exist in MSATS)...</p>	AEMO notes the respondents response. Please refer to table 1 item 25.
35	MSATS Procedure CATS 12.2 Backdate NMI Table 12-D – Objection Rules**	Origin Energy	Origin seeks clarity whether there are NCONUML Embedded Child sites. If there are no NCONUML sites as emdedded network children and (or in other LR area's), can AEMO confirm if this is the intent of this change or is it ensure that the AEMO solution is future proofed for these scenarios?	AEMO notes the respondent's comment. This has been amended.

No.	Question	Consulted person	Participant comment	AEMO response
	CR 5021 – Backdate NMI Start Date - Child		NOTRESP & RETRO codes should not be applicable for NCONUML NMI Class codes for CR 5021 – Backdate NMI Start Date – Child.	
36	MSATS Procedure CATS 13.4. Change ENLR – Child NMI	Origin Energy	Is there any objection process for ENLR current role as this is now being removed?	AEMO notes the respondent's comment, this was an error and has been amended.
37	Table 13-K – Change Request Status Notification Rules**	Origin Energy	Origin understands that the ENLR current role is being removed from being able to object to CR 6421 – Change ENLR Child NMI – Retrospective. Is that correct?	AEMO notes the respondent's comment, this was an error and has been amended.
38	Standing Data for MSATS wigs 3. PROVIDE DATA – CHANGE REQUEST 3.1. Provide Actual Change Date 3.1.2. Conditions Precedent (c) The NMI Classification Code is WHOLESAL, INTERCON, GENERATR NREG, or DWHOLSAL, BULK or XBOUNDARY.	Origin Energy	For consistency, could we get a comma between GENERATR and NREG i.e. GENERATR, NREG as displayed elsewhere in WIGS (also for Create NMI 2000, 2001, Sec 4.1.2.)	AEMO notes the respondent's comment, this has been amended.

Appendix C. Structure of AEMO’s Retail Electricity Market Procedures

The Procedures govern the operation of the retail market, as follows.

Figure 1 Retail Electricity Market Procedures



AEMO has published several supporting documents, as follows, which explain or provide additional information to enable Participants to fulfil their obligations and procedures under the NER.

Figure 2 Retail Electricity Market Procedure Supporting Documents

