

Consumer Data Right (CDR) MSATS Consultation

Draft Report and Determination – Part
1 – Various Minor Matters

Published: July 2022

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Australian Energy Market Operator Ltd ABN 94 072 010 327

Notice of Second Stage Consultation – Consumer Data Right (CDR) MSATS Consultation

National Electricity Rules – Rule 8.9

Date of Notice: 29 July 2022

This notice (Notice) informs all Registered Participants, Metering Providers, Metering Data Providers, Embedded Network Managers, Ministers and the Australian Energy Regulator (AER) (Consulted Persons) that AEMO is commencing its second stage consultation (Second Stage Consultation) on the CDR-related proposed changes (Changes) to the retail electricity market procedures (Procedures) in respect of the various minor matters (Minor Changes) which are the subject of Part 1 of the Draft Report and Determination (Draft Report Part 1). AEMO's publication of the Draft Report Part 1 is timed to maximise the time available to Participants to prepare to implement the Minor Changes from 7 November 2022.

Subsequently AEMO will consult on the substantive material issues (Substantive Changes) which will be the subject of Part 2 of the Draft Report and Determination (Draft Report Part 2). This additional time is required given the number and complexity of the issues which the stakeholders raised in their submissions and feedback in response to the Issues Paper. This consultation is being conducted under clause 7.16.7 of the National Electricity Rules (NER), in accordance with the Rules consultation requirements detailed in rule 8.9 of the NER.

Invitation to make Submissions

AEMO invites written submissions on this Draft Report Part 1.

Please identify any parts of your submission that you wish to remain confidential, and explain why. AEMO may still publish that information if it does not consider it to be confidential, but will consult with you before doing so.

Consulted Persons should note that material identified as confidential may be given less weight in the decision-making process than material that is published.

Closing Date and Time

Submissions in response to this Notice should be sent by email to NEM.Retailprocedureconsultations@aemo.com.au to reach AEMO by 5.00pm (Melbourne time) on Friday, 12 August 2022.

All submissions must be forwarded in electronic format (both pdf and Word). Please send any queries about this consultation to the same email address.

Submissions received after the closing date and time will not be valid, and AEMO is not obliged to consider them. Any late submissions should explain the reason for lateness and the detriment to you if AEMO does not consider your submission.

Publication

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

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Executive Summary

- The publication of this Draft Report Part 1 commences the Second Stage Consultation on the following Minor Changes to the Standing Data for MSATS document.
- MSATS Procedures – Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligations (MSATS Procedures – CATS).
- MSATS Procedures – Procedure for the Management of Wholesale Interconnector, Generator and Sample (WIGS) NMIs (MSATS Procedures – 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
MSATs Procedures – CATS v5.31	Amendment	7 November 2022	<ul style="list-style-type: none"> • Minor Amendments • CiP_61 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

As required by clause 8.9 of the NER, AEMO is consulting in accordance with the Rules consultation process in rule 8.9.

AEMO's indicative timeline is outlined below. Deliverable	Indicative date
Notice of first stage consultation and Issues Paper published	Wednesday, 27 April 2022
First stage submissions closed	Thursday, 2 June 2022
Part 1 - Notice of second stage consultation and Draft Report published	Friday, 29 July 2022
Submissions due on Draft Report Part 1	Monday, 15 August 2022
Part 2 - Notice of second stage consultation and Draft Report published	TBA
Submissions due on Draft Report Part 2	TBA
Final Report published	TBA

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 Chapter 7 except for procedures established and maintained under rule 7.17.

The procedures authorised by AEMO under 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.

Minor changes to the Standing Data for MSATS document

Document	Section	Description
Standing Data for MSATS document v5.31	Table 3 CATS_METER_REGISTER – Field Definitions	For the Data Element Name “CurrentTransformerTest” enumerations have been changed from mixed case to upper case
Standing Data for MSATS document v5.31	Table 27 Valid Transformer Fields Values	For VT Type - Valid Values the description in brackets have been removed
Standing Data for MSATS document v5.31	Table 27 Valid Transformer Fields Values	Addition of missing Transformer Valid Values and reconfigured values from smallest to largest
Standing Data for MSATS document v5.31	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
Standing Data for MSATS document v5.31	Table 28 Valid Meter Use Codes	The enumerations for the ‘Use’ field values of ‘INFORMATION’ and ‘STATISICAL’ are to be truncated to ‘STATIS’ and ‘INFORM’ to fit within the 10 character limit.
Standing Data for MSATS	Table 12 CATS_NMI_DATA – Fields Definitions	For the Data Element “Building Or Property Name” reference to AS4590 has been included.

Document	Section	Description
document v5.31		
Standing Data for MSATS document v5.31	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.
Standing Data for MSATS document v5.31	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
Standing Data for MSATS document v5.31	Table 4 CATS_Meter_Register – Browser Cross Reference	Correction of the VoltageTransformerTest in MSATS enumerations list
Standing Data for MSATS document v5.31	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.

Minor changes to the MSATS Procedures – CATS

Document	Section	Description
MSATs Procedures – CATS v5.31	Clause 10.3.4 (d)	Change wording to state that manufacturer and model is not required where meters are being removed
MSATs Procedures – CATS v5.31	13.5.7 Table 13-M	Remove CR6500/1 Change ROLR completed notification
MSATs Procedures – CATS v5.31	12.2.9 Objection Rules Table 12-D	Include NMI classification code NCONUML

Minor changes to the MSATS Procedures – WIGS

Document	Section	Description
MSATs Procedure	Table 7-B-Objection Rules CR 5021 –	Allow the ENLR (LR) to object to CR5021

Document	Section	Description
- WIGS v5.31	Backdate NMI Start Date - Child	
MSATs Procedure - WIGS v5.31	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>.

3. Summary of Material Issues

The Minor Changes do not involve any material issues which have been raised by the Consulted Persons.

4. Draft Determination Part 1

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

To help stakeholders and other interested parties to respond to this Draft Report Part 1, AEMO has published draft versions of the Procedures which incorporate the Minor 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 draft 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.
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.	Alinta Energy	N/A	
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.	EQL	Energy Queensland provides no comment.	
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.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
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.	Jemena	No issues.	AEMO notes the respondent's support for this change.

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.	Origin Energy	Agree	AEMO notes the respondent's support for this change.
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.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
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.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
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.	Telstra	None	
2	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.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Alinta Energy	N/A	
2	For the Voltage Transformer Type enumerations, to remove descriptions	EQL	Energy Queensland provides no comment.	

No.	Question	Consulted person	Participant comment	AEMO response
	where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)			
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Intellihub	There is a typo error in "CONSUMER DATA RIGHT (CDR) MSATS CONSULTATION - Issue Paper, 27 April 2022" the suggested value for Inductive Voltage Transformer is "ITV" but should be "IVT". Otherwise, Intellihub is supportive of the proposal.	AEMO notes the respondent's comment and support for this change.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Jemena	No issues.	AEMO notes the respondent's support for this change.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Origin Energy	Agree	AEMO notes the respondent's support for this change.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
2	For the Voltage Transformer Type enumerations, to remove descriptions where they exist in brackets e.g. 'CVT (Capacitive Voltage Transformer)	Telstra	None	
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	AGL	AGL supports the change.	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Alinta Energy	N/A	
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Endeavour Energy	We note that AEMO's intent is to remove the spaces for all enumerations, however some enumerations still have spaces. For consistency, we suggest AEMO ensure all enumerations do not have spaces.	AEMO notes the respondent's comment, this has

No.	Question	Consulted person	Participant comment	AEMO response
				been shown as a tracked change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	EQL	Energy Queensland provides no comment.	
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Jemena	No issues.	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Origin Energy	Agree	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	PLUS ES	No qualification has been provided for the change. PLUS ES does not support this change as we have finalised the build and it would require additional changes for no identified benefits.	AEMO notes the respondent's comment and notes the majority of respondents supported this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
3	Where Ratio enumerations exist, remove spaces between characters e.g. '3300 : 110' to '3300:110'	Telstra	None	
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and	AGL	AGL supports the change.	AEMO notes the respondent's

No.	Question	Consulted person	Participant comment	AEMO response
	'INFORM' to fit within the 'USE' field 10 character max limit.			support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Alinta Energy	N/A	
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	EQL	Energy Queensland provides no comment.	
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Jemena	No issues.	AEMO notes the respondent's support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Origin Energy	Unless the field length can be expanded further, Origin does not have any issues with the proposed approach.	AEMO notes the respondent's support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
4	INFORMATION' and 'STATISICAL' are to be truncated to 'STATIS' and 'INFORM' to fit within the 'USE' field 10 character max limit.	Telstra	Telstra Energy comment STATS maybe a better and more common abbreviation of STATISTICAL (rather than STATIS) which might be confused with a misspelling of STATUS.	AEMO notes the respondent's comment.
5	Alignment of character requirements across aseXML and the Standing Data for MSATs document by including a reference to the Australian Standards	AGL	AGL supports this change – but seeks greater clarity.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
	requirements, where relevant in the document applicable.		<p>A recent review of changes to AS 4590 indicates that some field lengths have changes between earlier Standards and the recent Standard – eg House Number was a 5 character field in 1999 but is a 6 character field in AS 4590:2017.</p> <p>This already has implications in B2B, but this alignment may impact other MSATS fields.</p> <p>AGL is also aware that mismatches between B2M and B2B transactions have been identified, and is working with Origin Energy to develop a change request to address these mis-matches.</p> <p>AGL would suggest that this proposed change needs further assessment for the reasons above.</p>	AEMO notes the respondents comments and notes this is not in the scope for this consultation.
5	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.	Alinta Energy	N/A	
5	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.	EQL	Energy Queensland provides no comment.	
5	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.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
5	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.	Jemena	No issues.	AEMO notes the respondent's support for this change.
5	Alignment of character requirements across aseXML and the Standing Data for MSATS document by including a reference to the Australian Standards requirements, where relevant in the document applicable.	Origin Energy	Agree	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
5	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.	Red/Lumo	Red and Lumo do not support this change until a full review has been undertaken into potential flow on impacts of all relevant fields which are specified in the Australian Standards. This review needs to consider the potential impacts across both B2B and B2M.	AEMO notes the respondent's comment and notes the majority of respondents supported this change.
5	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.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
5	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.	Telstra	None	
6	For the correction of the GPS Coordinates format, implemented in 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.
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Alinta Energy	N/A	
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	EQL	Energy Queensland provides no comment.	

No.	Question	Consulted person	Participant comment	AEMO response										
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.										
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Jemena	No issues.	AEMO notes the respondent's support for this change.										
6	For the correction of the GPS Coordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Origin Energy	Agree	AEMO notes the respondent's support for this change.										
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	PLUS ES	<p>PLUS ES believes that Meter (highlighted) should be Electricity meter as in all other relevant fields.</p> <table border="1"> <tr> <td>GPS Coordinates ← Latitude</td> <td>GPSCoordinatesLat</td> <td>Meter/GPSCoordinates/LatitudeElectricityMeter/GPSCoordinatesLat</td> <td>NUMERIC (s2.7)</td> <td>xsd:decimal minIncl = -99.9999999 maxIncl = 99.9999999 totaldig = 2 fracdig = 7</td> </tr> <tr> <td>GPS Coordinates ← Longitude</td> <td>GPSCoordinatesLong</td> <td>Meter/GPSCoordinates/LongitudeElectricityMeter/GPSCoordinatesLong</td> <td>NUMERIC (s3.7)</td> <td>xsd:decimal minIncl = 0 maxIncl = 999.9999999 totaldig = 3 fracdig = 7</td> </tr> </table>	GPS Coordinates ← Latitude	GPSCoordinatesLat	Meter/GPSCoordinates/LatitudeElectricityMeter/GPSCoordinatesLat	NUMERIC (s2.7)	xsd:decimal minIncl = -99.9999999 maxIncl = 99.9999999 totaldig = 2 fracdig = 7	GPS Coordinates ← Longitude	GPSCoordinatesLong	Meter/GPSCoordinates/LongitudeElectricityMeter/GPSCoordinatesLong	NUMERIC (s3.7)	xsd:decimal minIncl = 0 maxIncl = 999.9999999 totaldig = 3 fracdig = 7	AEMO notes the respondent's comment, this has been shown as a tracked change.
GPS Coordinates ← Latitude	GPSCoordinatesLat	Meter/GPSCoordinates/LatitudeElectricityMeter/GPSCoordinatesLat	NUMERIC (s2.7)	xsd:decimal minIncl = -99.9999999 maxIncl = 99.9999999 totaldig = 2 fracdig = 7										
GPS Coordinates ← Longitude	GPSCoordinatesLong	Meter/GPSCoordinates/LongitudeElectricityMeter/GPSCoordinatesLong	NUMERIC (s3.7)	xsd:decimal minIncl = 0 maxIncl = 999.9999999 totaldig = 3 fracdig = 7										
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.										
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document:	TasNetworks	Accepted	AEMO notes the respondent's support for this change.										

No.	Question	Consulted person	Participant comment	AEMO response
	CATS_Meter_Register- Browser Cross Reference table.			
6	For the correction of the GPSCoordinates format, implemented inas part of the r42 schema, to be reflected in the Standing Data for MSATs document: CATS_Meter_Register- Browser Cross Reference table.	Telstra	None	
7	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.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Alinta Energy	N/A	
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Endeavour Energy	It is not clear what changes have been made to the procedures, could this be clarified?	AEMO notes the respondent's comment, this has been amended as a tracked change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	EQL	Energy Queensland provides no comment.	
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Jemena	No issues.	AEMO notes the respondent's support for this change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Origin Energy	Agree	AEMO notes the respondent's support for this change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	PLUS ES	<p>It is still not clear what the change requires.</p> <p>Having the same Element name for 2 different Fields could be very confusing or trigger downstream impacts. i.e.</p> <pre> </RegisterConfiguration> <CurrentTransformerLocation>Inside Cabinet</CurrentTransformerLocation> <CurrentTransformerType>A</CurrentTransformerType> <CurrentTransformerRatioAvailable>50 / 100 / 150 : 5</CurrentTransformerRatioAvailable> <CurrentTransformerRatioConnected>150 : 5</CurrentTransformerRatioConnected> </pre> <p>We therefore suggest the aseXML Data Element Names should be amended to readily distinguish between the 2 individual fields</p>	AEMO notes the respondent's comment, this has been amended as a tracked change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
7	For the truncated CurrentTransformerRatioAvailable and CurrentTransformerRatioConnected element names to be reflected in Table 4 CATS_Meter_Register – Browser Cross Reference.	Telstra	None	

No.	Question	Consulted person	Participant comment	AEMO response
8	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.
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Alinta Energy	N/A	
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	EQL	Energy Queensland provides no comment.	
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Jemena	No issues.	AEMO notes the respondent's support for this change.
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Origin Energy	Agree	AEMO notes the respondent's support for this change.
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest	TasNetworks	Accepted	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
	in table 4 CATS_Meter_Register – Browser Cross Reference.			
8	For the VoltageTransformerTest aseXML path to be corrected to ElectricityMeter/VoltageTransformerTest in table 4 CATS_Meter_Register – Browser Cross Reference.	Telstra	None	
9	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.
9	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.	Alinta Energy	N/A	
9	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.	EQL	Energy Queensland provides no comment.	
9	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.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
9	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.	Jemena	No issues.	AEMO notes the respondent's support for this change.
9	For GPS Coordinates of 0.00000 (5-7 decimal places), to align with the format	Origin Energy	Agree	AEMO notes the respondent's

No.	Question	Consulted person	Participant comment	AEMO response
	specified in the NMI Standing Data Procedure, to be applied where no GPS coverage is available at the metering installation.			support for this change.
9	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.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
9	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.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
9	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.	Telstra	None	
10	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.	AEMO notes the respondent's support for this change.
10	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.	Alinta Energy	N/A	
10	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.	EQL	Energy Queensland provides no comment.	
10	For the inclusion of missing Transformer Valid Values to be added to the	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's

No.	Question	Consulted person	Participant comment	AEMO response
	Standing Data for MSATS document and for all values to be formatted from smallest to largest.			support for this change.
10	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.	Jemena	No issues.	AEMO notes the respondent's support for this change.
10	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	Agree	AEMO notes the respondent's support for this change.
10	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.	PLUS ES	As per PLUS ES' response to Question 3, if the spaces are not removed, then they need to be included in these values.	AEMO notes the respondent's comment and notes the majority of respondents supported this change.
10	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.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
10	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.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
10	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.	Telstra	None	
11	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	AGL	AGL supports the change.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
	CR3050 and CR3051 transactions (CiP_061).			
11	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).	Alinta Energy	N/A	
11	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).	EQL	Energy Queensland provides no comment.	
11	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).	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
11	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).	Jemena	What if MPB sends "Manufacturer/Model" where status code is not 'C'? Will MSATS reject the CR305X or still accept the CRs but just ignore the fields? Please advise.	AEMO notes that it is mandatory on current and optional on removed
11	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	Agree	AEMO notes the respondent's support for this change.
11	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).	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
11	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).	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
11	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).	Telstra	None	
12	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.
12	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	Alinta Energy	N/A	
12	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	EQL	Energy Queensland provides no comment.	
12	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	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.
12	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	Jemena	No issues.	AEMO notes the respondent's support for this change.
12	For the CATS Procedures to be updated to remove the CR6500/1 Change ROLR	Origin Energy	Agree	AEMO notes the respondent's

No.	Question	Consulted person	Participant comment	AEMO response
	Completed Notification from the Change ROLR section to align with the WIGS Procedures			support for this change.
12	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	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
12	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	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
12	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	Telstra	None	
13	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.
13	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	Alinta Energy	N/A	
13	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	EQL	Energy Queensland provides no comment.	
13	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	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
13	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	Jemena	No issues.	AEMO notes the respondent's support for this change.
13	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	Agree	AEMO notes the respondent's support for this change.
13	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	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
13	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	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
13	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	Telstra	None	
14	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.
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Alinta Energy	N/A	
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	EQL	Energy Queensland provides no comment.	
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Intellihub	Intellihub is supportive of the proposal.	AEMO notes the respondent's

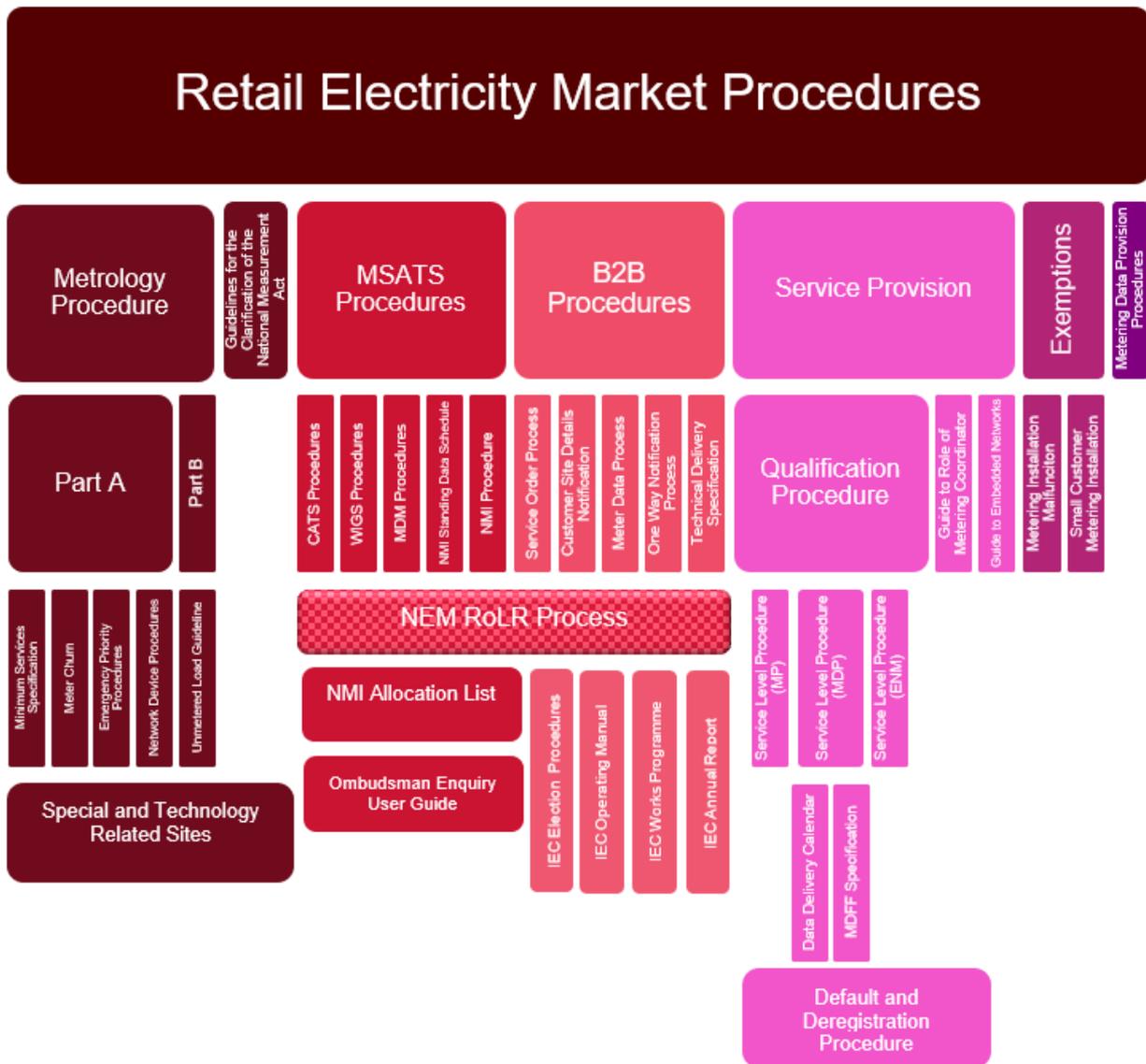
No.	Question	Consulted person	Participant comment	AEMO response
				support for this change.
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Jemena	No comment	
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Origin Energy	Agree	AEMO notes the respondent's support for this change.
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
14	Update the WIGS procedure for CR5021 to allow the ENLR (LR) to object.	Telstra	None	
15	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.
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Alinta Energy	N/A	
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	EQL	Energy Queensland provides no comment.	
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	IntelliHub	IntelliHub is supportive of the proposal.	AEMO notes the respondent's support for this change.

No.	Question	Consulted person	Participant comment	AEMO response
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Jemena	No comment	
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Origin Energy	Agree	AEMO notes the respondent's support for this change.
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Red/Lumo	Red and Lumo support this change.	AEMO notes the respondent's support for this change.
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	TasNetworks	Accepted	AEMO notes the respondent's support for this change.
15	Update the WIGS procedure to include BULK and XBOUNDARY to CR1500 to allow the MDP to send it to complete the CR.	Telstra	None	

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

