RETAIL ELECTRICITY MARKET PROCEDURES OCTOBER 2021 CONSULTATION

DRAFT REPORT AND DETERMINATION

Published: **December 2021**

NOTICE OF SECOND STAGE CONSULTATION – RETAIL ELECTRICITY MARKET PROCEDURES OCTOBER 2021 CONSULTATION

Date of Notice: 6 December 2021

This Notice of Second Stage of Rules Consultation (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 (Consultation) on the changes (Changes) to implement process improvements which are proposed (Proposal) to the Retail Electricity Market Procedures (Procedures) which relate to the National Electricity Market (NEM).

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

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EXECUTIVE SUMMARY

The publication of this Draft Report and Determination (Draft Report) commences the second stage of the Rules consultation process (Consultation) conducted by AEMO under the National Electricity Rules (NER) to consider changes (Changes) which are proposed (Proposals) to the following procedures (Procedures).

Firstly, these Proposals involve the implementation of process improvements to the Procedures which have been recommended by market proponents and AEMO (Improvement Procedures).

Table 1 Summary of Change Proposals to Implement Process Improvements

Procedure	Type of Change	Change Proposal	Indicative Effective Date
B2B E-Hub Participant Accreditation and Revocation Process (B2B Process)	Amendment	CIP_045 B2B Accreditation Procedure Clarification	1 May 2022
MSATS Procedures: Consumer Administration and Transfer Solution Procedure Principles and Obligation (CATS Procedure)	Amendment	CIP_050 NREG and GENERATR NMI Classifications.	1 May 2022
MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator And Sample NMIs (WIGS Procedure)	Amendment	WIGS Clarification	1 May 2022
Meter Data File Format (MDFF) Specification NEM12 & NEM13 (MDFF Specification)	Amendment	CIP_042 Reason Codes	1 May 2022
Metrology Procedure: Part A (Metrology Procedure Part A)	Amendment	CIP_046 Clarification of Metrology Part A Clause 12.5. CIP_048 Reference to AS60044.	1 May 2022
Standing Data for MSATS (Standing Data document)	Amendment	CIP_049 Controlled Load Enumerations. CIP_053 GPS Coordinates Minimum Requirements. Connection configuration clarification.	1 May 2022

Secondly, these Proposals involve the consolidation of previously-consulted versions of the Procedures effective 1 May 2021 (Consolidation Procedures). The Consolidation Procedures have already been the subject of formal consultations. Accordingly, AEMO is not requesting comment on the Consolidation Procedures, other than to rectify any potential consolidation errors. In particular, text that has been removed or reformatted and links that have been updated have not been noted in this Draft Report.

Table 2 Summary of Change Proposals to Consolidate Previously-Consulted Versions of Procedures

Procedure Name	Version being built on	Versions being consolidated	Version published with consultation
CATS Procedure	4.921	4.93 4.94 4.95 5.0	5.1
WIGS Procedure	4.921	4.93 4.94 4.95 5.0	5.1
Standing Data for MSATS document	4.52	4.6 5.0 5.1	5.11
Metrology Procedure Part A	7.01	7.1 7.3 7.31	7.4
Metrology Procedure Part B	7.021	7.03 7.1 7.2 7.21	7.3
Glossary and Framework	3.31	3.4 3.41	3.5
RoLR Processes	2.0	2.1 2.2	2.3
MDM Procedures	4.1	4.2	4.3

The details are in the Version History Tables which are available on the AEMO webpage here.

The proposed implementation date for the Changes is 1 May 2022.

AEMO received 14 submissions on the Issues Paper from Retailers, Local Network Service Providers (LNSPs), Meter Providers (MPs), Metering Data Providers (MDPs) and intending participants, from:

- AGL
- Ausnet Services
- Citipower Powercor
- Endeavour Energy
- Energy Queensland
- Ergon Energy, Energex and Yurika Metering
- EvoEnergy
- Jemena
- Origin Energy
- PLUS ES
- Red Energy and Lumo Energy
- South Australia Power Networks
- United Energy
- Vector Metering

Overall, multiple respondents indicated broad support for the majority of the Changes.

AEMO has identified the following 5 material issues, based on these submissions, as well as AEMO's own analysis:

- Delayed implementation of the MSATS Standing Data Review (MSDR)-related changes due to resourcing constraints at AEMO. AEMO has begun a Minor Amendment Process to formally delay the MSDR's implementation, as detailed in section 2.4, as well as at the consultation page available via the following link: https://aemo.com.au/consultations/current-and-closed-consultations.

- Incomplete consolidation of Procedures. For example, versions 7.2 and 7.32 of Metrology Procedure Part A as well as versions V4.94 and 5.1 of CATS were not fully reflected in the draft Procedures. These changes are included in the documents in this Consultation.

- Resolution of the question of whether the same standards for GPS Coordinates should be applied to NCONUML NMIs as they are to other NMIs.

- Resolution of the question of whether NREG NMI Classifications should be redefined, as raised by several proponents and discussed in the October and November meetings of the Electricity Retail Consultative Forum (ERCF).

- Small changes to the existing CIP proposals, including the proposal by South Australia Power Networks to not remove reason code 4 in the MDFF Specification.

AEMO's draft determination is to amend the Procedures in the form published with this Draft Report.

Invitation to Make Submissions

AEMO invites written submissions on this Draft Report.

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 which is published.

Closing Date and Time

Submissions in response to this Draft Report should be sent by email to NEM.Retailprocedureconsultations@aemo.com.au, to reach AEMO by 5.00pm (Melbourne time) by Tuesday, 21 December 2021.

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, as well as 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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1. STAKEHOLDER CONSULTATION PROCESS

AEMO is consulting on the Proposals in accordance with the NER consultation procedures in NER 8.9. This Consultation follows extensive outworking of each Proposal by the ERCF and AEMO.

AEMO's indicative timeline for this Consultation is as follows.

Table 3 Summary of indicative dates

Deliverable	Indicative date
Initial Notice	Friday, 8 October 2021
Submissions Closed	Monday, 15 November 2021
Draft Determination	Monday, 6 December 2021
Submissions Close	Tuesday, 21 December 2021
Final Determination	Monday, 31 January 2022
Effective Date of Changes	Sunday, 1 May 2022

The dates may be adjusted depending on the number and complexity of issues raised in submissions and any meetings with stakeholders. Prior to each submission due date, stakeholders can request a meeting with AEMO to discuss the issues raised in this Draft Report. Please request a meeting by emailing NEM.Retailprocedureconsultations@aemo.com.au with the details of your request.

A glossary of terms used in this Draft Report is at Appendix A.

2. BACKGROUND

2.1 NER requirements

AEMO is responsible for the establishment and maintenance of retail electricity market 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 maintained by AEMO in accordance with the NER consultation procedures.

2.2 Context for this consultation

AEMO will continue to engage and consult through the ERCF on the Procedures. The ERCF provides a platform for interested parties to raise issues and propose changes to the Procedures (except for the B2B Procedures).

Further information on the ERCF is available at: https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/electricity-retail-consultative-forum

Details on the forums and groups specific to National Electricity Market (NEM) Electricity Retail processes and procedures are available at: http://www.aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups.

2.3 First stage consultation

AEMO issued the Notice of First Stage Consultation, Issues Paper and initial draft amended Procedures on Friday 8 October 2021. This information is available on AEMO's website. The Issues Paper included a summary of the Changes, as well as details on AEMO's stakeholder engagement, including through the ERCF.

In response, AEMO received 14 submissions. AEMO has published copies of all written submissions (excluding any confidential information) on AEMO's website here.

2.4 MSDR Implementation Delay

On 3 December 2021, AEMO commenced a Minor Amendment Process to formally delay the MSDR's implementation (MSDR Minor Amendment Process), as detailed at: https://aemo.com.au/consultations/current-and-closed-consultations.

Accordingly, AEMO is now proposing to stagger the implementation of the Changes into the following two tranches.

Effective date	Changes involved	Procedure/System Changes
1 May 2022	Metering Coordinator Planned Interruption (MCPI), Global Settlement (GS) changes. Change proposals with no software impacts, including CIP_045, CIP_050, WIGS Clarification, CIP_042, CIP_046, and CIP_048	Schema update to be released, the new fields Shared Isolation Point Flag will be effective but all other MSDR changes will be 'silent' in the system

Effective date	Changes involved	Procedure/System Changes
7 November 2022	MSDR changes. Change proposals related to MSDR, including CIP_049 and CIP_053 which affect the Standing Data document. The Standing Data document in this Consultation is based on final reports and determinations in previous consultations, not the MSDR Minor Amendment Process. However, if the MSDR Minor Amendment Process confirms the delayed implementation of MSDR, then the Standing Data document in this Consultation will be published in accordance with the Minor Amendment.	No schema changes related to MSDR

The Consolidation Procedures alone, not the Improvement Procedures, will involve a schema change. If participants wish to use the MCPI-related fields, they must upgrade to r42.

The table below provides further details as to which CIPs are proposed to be included in these two tranches. 'Minor Amendment' indicates that the changes have already been consulted on and will only be considered for the purpose of consolidating them into a new Procedure version. 'Consultation' indicates that these changes are available for comment in this Consultation.

Change ID	Subject	Document changing	AEMO MSATS System Change	Effective Date	Minor Amendment or Consultation
CIP_013	Change Cancellation Timeframe for CR6800	CATS Procedure	Yes	7/11/2022	Minor Amendment
CIP_016	Reinstatement of MC Objection of "BadParty" for Victorian SMALL NMIs	CATS Procedure	Yes	7/11/2022	Minor Amendment
CIP_019	Verification of Metering Data for Meters with Remote Capabilities	Metrology Procedure: Part A	No	1/5/2022	Minor Amendment
CIP_020	Clarification of Use of Terms Validation and Verification	SLP MP Metrology Procedure: Part B	No	1/5/2022	Minor Amendment
CIP_021	Removal of End User Details from the Inventory Table	Metrology Procedure: Part B	No	1/5/2022	Minor Amendment
CIP_025	Removal of 'N' Metering Data Quality Flag	Metrology Procedure: Part B; MDFF Specification	No	1/5/2022	Minor Amendment
CIP_027	Average Daily Load at Datastream	Standing Data for MSATS Document; Glossary and Framework	No	1/5/2022	Minor Amendment

Change ID	Subject	Document changing	AEMO MSATS System Change	Effective Date	Minor Amendment or Consultation
CIP_028	Remove Failed Retailer MSATS User Access	RoLR Processes	No	1/5/2022	Minor Amendment
CIP_029	Amendment or Reversion of Definition of Register ID Field in MSATS	CATS Procedure; MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIS (WIGS Procedure); Standing Data for MSATS document	No	1/5/2022	Minor Amendment
CIP_031	Revision of definitions of SMALL and LARGE NMI Classifications	CATS Procedure	Yes	7/11/2022	Minor Amendment
CIP_M001	Process to detect energy data	SLP: MDP Services	No	1/5/2022	Minor Amendment
CIP_030	Configuration of data channels and meter data obligations	SLP: MDP Services	No	1/5/2022	Minor Amendment
CIP_023	Process when remote collection of metering data fails	Metrology Procedure: Part A SLP: MDP Services	No	1/5/2022	Minor Amendment
CIP_045	B2B Accreditation Procedure Clarification	B2B E-Hub Participant Accreditation and Revocation Process (B2B Process)	No	1/5/2022	Consultation
CIP_050	NREG and GENERATR NMI Classifications.	MSATS Procedures: Consumer Administration and Transfer Solution Procedure Principles and Obligation (CATS Procedure)	No	1/5/2022	Consultation
N/A	WIGS Clarification	MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator And Sample NMIs (WIGS Procedure)	No	1/5/2022	Consultation

Change ID	Subject	Document changing	AEMO MSATS System Change	Effective Date	Minor Amendment or Consultation
CIP_042	Reason Codes	Meter Data File Format (MDFF) Specification NEM12 & NEM13 (MDFF Specification)	No	1/5/2022	Consultation
CIP_046 CIP_048	Clarification of Metrology Part A Clause 12.5. Reference to AS60044.	Metrology Procedure: Part A (Metrology Procedure Part A)	No	1/5/2022	Consultation
CIP_049	Controlled Load Enumerations.	Standing Data for MSATS (Standing Data document)	Yes	7/11/2022	Consultation
CIP_053	GPS Coordinates Minimum Requirements. Connection configuration clarification.	Standing Data for MSATS (Standing Data document)	Yes	7/11/2022	Consultation

3. CHANGE PROPOSALS

A number of these Changes have been nominated for implementation prior to the future effective date of the relevant new Procedures. This nomination is reflected in relevant version tables where possible, as well as the Retail Electricity Market Procedures Version History Tables, available at: https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/electricity-retail-consultative-forum.

3.1 Reason Codes (CIP_042)

3.1.1 Issue Summary and Submissions

Context

MDPs provide reason codes to inform Retailers as to why an actual meter read was unable to be taken. The MDFF Specification section 3.3.5(a) states that the MDP must apply a reason code that most accurately reflects the reason for supplying the code or based on the hierarchical structure agreed with the FRMP. Over the last 18 months, the energy industry has experienced a number of extreme events, including bushfires, floods, IT system issues and the COVID 19 pandemic. These events have impacted meter readings for a large number of premises, leading to a substantial impact on supply chain charging, from wholesale through to customer billing.

As a result of these events, MDPs have not been able to provide actual meter reads and have issued substituted reads for these premises. However, the reason codes are varied and inconsistent as used by the various MDPs (contestable and network) or even by a particular MDP itself, even where the reason codes can be related to the same event. Further, the codes that have been used are not necessarily reflective of the issue at hand. Finally, the reason codes published by the MDP can cause confusion for retailers, in any event.

The Proposal is to update only Appendix E and F of the MDFF Specification. There is no impact to AEMO systems as a result of this Change.

Proposal

AEMO proposes the Changes to the industry reason codes to:

- provide a more reflective indication of an event which leads to large volume substitution being undertaken; and
- refine and clarify the existing reason codes.

These Changes will:

- provide better insights for customers;
- reduce the number of queries by customers into retailer call centres;
- allow more meaningful dialog with customers when there are high or low billing events following substitutions;
- reduce the need for retailers to seek further information from MDPs;
- provide consistency across the industry for all MDPs and retailers, in respect of the codes used for certain scenarios;
- allow MDPs to correctly identify large volumes of premises requiring substitution; and
- provide clearer information to data users (including customers) about why their meter read data is substituted.

These Changes are as follows.

A sentence will be added to the beginning of Appendix E: *'These reason codes are designed to encourage consistency across the NEM, allowing more efficient operation of electricity services for price of supply.'*

The description of each reason code will be amended according to the following marked-up text.

Reason	Reason Code Description	Detailed Description
0	Free text description	For use in the case that other reason code descriptions cannot be reasonably utilised e.g. system issues which prevent delivery of market data
2	Extreme weather conditions	Extreme weather conditions have prevented data collection e.g. floods/storms/bushfires
3	Quarantined premises	Premises under quarantine or lockdown preventing access to *metering installation* e.g. pandemic
40	Unrestrained livestock	Data collector observed that livestock is roaming free on the premises and could potentially be hazardous, or access was not obtained due to potential for livestock to escape. This refers to farm animals

The following codes will be removed:

- 'Noxious Weeds' (reason code 16) to be made obsolete in favour of 'Overgrown Vegetation' (reason code 15).
- 'Dangerous dog' (reason code 4) to be made obsolete in favour of 'Dog on premises' (reason code 48).

The Proposals are detailed below.

Document	Section	Description
Meter Data File Format Specification NEM12 & NEM13	Appendix E Reason Codes	Reason codes amended and removed as described above

Document	Section	Description
Meter Data File Format Specification NEM12 & NEM13	Appendix F Obsolete Reason Codes	Reason codes removed from Appendix E to be moved to Appendix F as described as above

In response to these Proposals:

- AGL, Ergon, Evoenergy and Origin were supportive;
- South Australia Power Networks (SAPN) proposed retaining reason code 4 (dangerous dog);
- Origin were supportive, suggesting that the description of reason code 8 (Vacant Premises) be amended to advise that the Meter reader believed that the Site was vacant and was unable to access the meter;
- Endeavour suggested a different example to that provided; and
- Endeavour and Evoenergy suggested several grammatical changes.

3.1.2 AEMO's assessment

The majority of respondents indicated their in-principle support for the Proposal. SAPN alone proposed retaining an obsolete code. As such, AEMO proposed not to retain reason code 4 (dangerous dog) as reason code 48 (dog on premises) serves much the same function. However, Origin's proposal to amend reason code 8 is within the spirit of the Proposal. AEMO proposes to amend it accordingly. Endeavour provided a more realistic example for the use of reason code 0 (free text) which has been included in Appendix E.

3.1.3 AEMO's conclusion

AEMO's conclusion is to:

- Amend reason code 0 and 8 in line with Endeavour and Origin's suggestions.
- Not amend reason code 4 as this was not endorsed by more than one respondent.
- Rectify the grammatical errors in the MDFF Specification.
- Otherwise proceed with the Change Proposal in this Draft Report.

3.2 B2B Accreditation Classifications (CIP_045)

3.2.1 Issue Summary and Submissions

Context

Participant accreditation for the AEMO B2B e-Hub has been in place since Power of Choice. The objective of the accreditation is to ensure that participants' IT systems will interact with AEMO's systems safely and securely and will deliver data in the appropriate format.

The B2B e-Hub does not perform any business validation of the transactions, but instead, only performs technical validations to ensure that the transaction has been formatted correctly.

Currently, the B2B Process implies that all transactions related to the participants as per its Appendix B are mandatory, but that AEMO is available to discuss the potential to gain approval to use a subset of these transactions.

If AEMO grants approval to only test a subset of the suggested transactions, then clarification is required that all the transactions listed in Appendix B are not mandatory.

Proposal

The Proposal is to update the B2B Process to clarify that a subset of transactions can be performed to obtain accreditation when approval has been granted by AEMO.

The Proposal is detailed below.

Document	Section	Description
B2B Process	1.1 Purpose and Scope(c) & (d)	Change of wording to refer to Appendix B and the B2B eHub Self-Accreditation
B2B Process	2.4 Pre-Production Assessment General (a)	Replacement of the requirement to test all transactions, to test a subset of transactions
B2B Process	2.5 Applicant System Testing	Removal of requirement of Stage 1 testing requirements. Change of wording to align with requirement of testing subset of transactions, not all transactions
B2B Process	Appendix B	Removal of the Mandatory/Required column

In response to these Proposals:

- Ergon, Evoenergy and Origin were supportive; and
- AGL requested more information on the obligations applied to non-registered participants and to clarify that Demand Response Service Providers (DRSPs) are Registered Participants, so the obligations listed in the Procedure apply to them.

3.2.2 AEMO's assessment

AEMO notes that the majority of respondents supported the Proposal.

DRSPs are a Registered Participant but the NER definition of Third Party Participant does not include DRSPs. The NER states that Third-Party Participants are allowed to participate in B2B transactions so the statement referred to by AGL must remain as-is.

The definition of Third Party B2B Participant in the NER is:

'A *B2B e-Hub Participant* who is not also a *Distribution Network Service Provider, Retailer, Local Retailer, Metering Coordinator, Metering Provider* or *Metering Data Provider*.' Therefore the DRSP is a Third Party B2B Participant.

AEMO's assesses DRSP to be Third Party Participants. All Third Party Participants will need to seek agreements with other participants to communicate via B2B.

3.2.3 AEMO's conclusion

AEMO's conclusion is to proceed with the Proposal as drafted in the First Stage Consultation.

3.3 Clarification of Metrology Procedure Part A Clause 12.5 (CIP_046)

3.3.1 Issue Summary and Submissions

Context

Currently, the title of clause 12.5 of the Metrology Procedure Part A v7.31 is 'Verification of Metering Data for whole current Manually Read Metering Installations and Type 7 Metering Installations', effective 1 May 2022.

Participants have requested clarification as to:

- the metering installations which clause 12.5 covers; and
- the consistency of the clause 12.5 title with clauses 4.2(a)(iii) and 4.2(b) of the Metering Provider Service Level Procedures (MP SLP).

Clause 12.5 describes the Metering Coordinator obligations to ensure that Metering Providers complete the work which they are obliged to complete. While clauses 4.2(a)(iii) and 4.2(b) reference clause 12.5 and describe the obligations placed on Metering Providers, the clause 12.5 title is not consistent with the activities which are described in clauses 4.2(a)(iii) and 4.2(b).

Proposal

The Proposal is to change the clause 12.5 title to *'Verification of Metering Data for whole current metering installations for small customers and Type 7 metering installations'*. Otherwise, clause 12.5 and clauses 4.2(a)(iii) and 4.2(b) remain unchanged. There is no impact to AEMO systems as a result of this Change.

Document	Section	Description
Metrology Procedure Part A	12.5	Verification of Metering data for whole current ~~Manually Read~~ Metering installations for small customers and Type 7 Metering installations

In response to this Proposal:

- AGL, Evoenergy and Origin were supportive;
- Ergon and Evoenergy noted that the Shared Fuse Arrangements diagrams referred to 'Meters' rather than 'NMI's;
- Evoenergy suggested to further clarify section 12.4 (b); and
- PLUS ES and Vector suggested clarifying the first paragraph of clause 12.5 which references whole current manually read metering installations, to ensure consistency with the relevant Service Level Procedures.

3.3.2 AEMO's assessment

AEMO notes that the majority of respondents supported the Proposal. AEMO's assessment is that all suggested clarifications will improve understanding within the market.

3.3.3 AEMO's conclusion

AEMO's conclusion is to:

- Update the Shared Fuse Arrangements diagrams according to participant comments.
- Update clauses 12.2, 12.4 and 12.5 in line with respondent comments.

- Otherwise proceed.

3.4 Reference to AS60044 (CIP_048)

3.4.1 Issue Summary and Submissions

Context

The Australian Standard (AS) 60044 was updated to align with the relevant International Standard and was retitled AS 61869, on 5 March 2021.

Accordingly, Metrology Procedure Part A clause 3.1 (b) and (c), which reference the now-superseded AS, must be updated.

Otherwise, the Metrology Procedure Part A is unchanged. This Change does not have any impact on AEMO systems and is not expected to have a material impact on participant systems.

Proposal

The Proposal is to update the references as follows.

Document	Section	Description
Metrology Procedure Part A	3.1 (b)-(c)	References to AS60044 now refer to AS61869. References to the International Standards have been removed as they are redundant.

- In response to the Proposal AGL, Evoenergy and Origin were supportive.

3.4.2 AEMO's assessment

AEMO notes that all the respondents supported the Proposal.

3.4.3 AEMO's conclusion

AEMO's conclusion is to proceed in accordance with the Proposal.

3.5 Controlled Load Enumerations (CIP_049)

3.5.1 Issue Summary and Submissions

Context

As part of the MSDR, an industry review was conducted of the usage of the proposed enumerations for the Controlled Load field (CL1, CL2, CL3).

This review sought feedback from LNSPs as to how the networks expected the enumerations to be used. This review showed that the expected usage would be complex without the realisation of proportional benefits. The proposed enumerations require MPB system logic which would be dependent on each LNSP's requirements, as well as requiring ongoing resources to manage any future amendments by the LNSP to its definition of each enumeration. One LNSP indicated that it required a CL4 enumeration. Other LNSPs stated that a YES/NO enumeration would meet their requirements. The usage of CL1-CL3 becomes further complicated where ToU network-controlled load tariffs are involved.

Following substantial discussion, the ERCF determined that optimally, the usage would show the separation between controlled load managed via time switches (i.e. YES) and load externally controlled by the network by means such as ripple control (i.e. EXT).

Proposal

The Proposal is to replace the enumerations which are currently specified (effective 1 May 2022) for controlled load (CL1, CL2, CL3) with the new enumerations of NO, YES, EXT, which have the following meanings.

NO	No controlled load
YES	There is controlled load associated with a network-controlled load tariff on this register
EXT	There is controlled load which is externally switched by the LNSP associated with a network-controlled load tariff on this register

The MSATS field would remain as a VARCHAR2(100).

The enumerations will be managed outside the schema, allowing amendments/additions to be added to the list, without requiring a schema change.

Document	Section	Description
Standing Data document	Table 17	Table updated as described above

In response to this Proposal:

- AGL, Ergon, Evoenergy and Vector were supportive;
- Evoenergy noted that several elements associated with Phase 1 of the MSDR implementation were yet to be removed from the Standing Data document;
- Ergon, PLUS ES, Evoenergy, Endeavour, Vector suggested several further changes to complete the consolidation.
- Evoenergy, Endeavour suggested several changes be made to clarify the intent of various clauses; and
- Endeavour, PLUS ES, Origin recommended changes to the description of the Controlled Load field and its enumerations.

3.5.2 AEMO's assessment

AEMO notes that no plurality of respondents objected to the Proposal. AEMO's assessment is that the definition of Controlled Load which is noted above provides maximum flexibility for the market, including new product offers by participants, at minimum implementation cost.

3.5.3 AEMO's conclusion

AEMO's conclusion is to update Standing Data document in order to improve clarity and complete its version consolidation, in accordance with the Proposal.

3.6 NREG and GENERATR NMI Classifications (CIP_050)

3.6.1 Issue Summary and Submissions

Context

In order to ensure that generation energy volumes are settled correctly, AEMO classifies a generating system as a Market Generator. Therefore, where the LNSP is aware that a stand-alone generation unit is to be connected to its network, the NMI Classification of NREG should be initially assigned to the NMI by the LNSP.

However, LNSPs have expressed their concern that it is difficult to interpret which NMIs should have the NMI Classification of NREG, when NMIs are being created or NMI Standing Data is to be updated for non-registered generator connection points.

Proposal

AEMO proposes to amend:

- the NREG definition in the CATS Procedure to clarify when it is appropriate to be used; and
- the GENERATR definition in the CATS Procedure to clarify that the NMI Classification of GENERATR is to be assigned by AEMO.

The LNSP is to assign a NMI Classification of NREG to stand-alone generator NMIs. FRMP = %SGA should only be assigned to stand-alone generator NMIs with an NREG NMI Classification. When AEMO classifies a generating system as a Market Generator, AEMO will change NMI Classification to GENERATR and change Agg Flag to "N".

The definitions will be updated as follows.

Code	Description [2]	Jurisdiction
GENERATR	~~Generator~~ Connection point associated with a generating system classified as a Market Generator by AEMO. This NMI Classification is to be assigned by AEMO from the Generator registration approval date.	All
NREG	Connection point associated with a stand-alone *non-registered embedded generator* at which: • the embedded generating unit is classified by a Market Small Generation Aggregator as a market generating unit; or • the embedded generating unit is owned, operated and controlled by a person who meets the requirements of NER 5.3.1A(c)(2) or (3); or • the non-registered embedded generator, defined in NER 5A.A.1, meets the requirements of NER 5A.A.2. • ~~the output of the embedded generating unit is consumed by a market load at the same connection point.~~	All

The Proposal is detailed as follows.

Document	Section	Description
CATS Procedure	4.5	Descriptions updated as set out above.

In response to the Proposal:

- Ergon, Evoenergy and Origin were supportive;
- AGL and Endeavour suggested further amendments to the definition of NREG;
- Evoenergy queried why some Code tables are listed in the Standing Data document and others are listed in the CATS Procedure; and
- CitiPower Powercor, Evoenergy, United Energy and Ergon suggested several further changes be made to complete the consolidation and clarify intent of the CATS Procedure.

3.6.2 AEMO's assessment

AEMO notes a majority of respondents were supportive of the Proposal. The definition of NREG is based on the definition proposed in the Stand-Alone Power System consultation. Further changes to code tables and NMI Classifications are outside of the scope of this classification.

3.6.3 AEMO's conclusion

AEMO's conclusion is to update the CATS Procedure in order to improve clarity and complete its version consolidation.

3.7 GPS Coordinates Minimum Requirements (CIP_053)

3.7.1 Issue Summary and Submissions

Context

As part of the MSDR, GPS Coordinates for metering installations were included as data which should be captured. In the MSDR draft determinations in 2020, AEMO requested participant feedback in respect of the accuracy of GPS Coordinates information (decimal places). The options provided were four, five or six decimal places.

The table below shows the accuracy of the GPS Coordinates with respect to the number of decimal places.

Accuracy versus decimal places

decimal places	degrees	distance
0	1.0	111 km
1	0.1	11.1 km
2	0.01	1.11 km
3	0.001	111 m
4	0.0001	11.1 m
5	0.00001	1.11 m
6	0.000001	0.111 m
7	0.0000001	1.11 cm
8	0.00000001	1.11 mm

Any number fewer than 4 decimal places would deliver very little value to the industry, at disproportional cost to capture, record and publish the data.

Initially, the understanding was that the requirement would be 5 decimal places, which would enable the information to be recorded to within 1.1 m of the metering installation.

Proposals were also presented to align with the B2B GPS Coordinates requirements, to align the data capture for both MSATS and B2B. In B2B, the GPS data is captured and transacted as part of the Notice of Metering Works (NOMW). However, the B2B field description established no minimum, but instead, allowed the GPS Coordinates to have 'up to 7 decimal places'.

Consequently, the final Standing Data for MSATS document has defined both the GPSCoordinatesLat and GPSCoordinatesLong fields as 'up to 7 decimal places', with no minimum.

This wording allows flexibility in terms of a participant's interpretation of the solution, which could potentially result in a large variance in the location of the metering installation, ranging from 11 km to 1 cm.

PLUS ES tabled its concerns in the ERCF meeting in August 2021. There was no objection to the proposal to define the GPS Coordinates with a minimum requirement of 5 decimal places. This approach would align the minimum requirement to the 5 decimal places which was discussed and outlined during the MDSR consultation.

Proposal

AEMO proposes to mitigate these issues, increase operational efficiencies, reduce wasted site visits and otherwise enable a consistent benefit to participants, by updating the description in the Standing Data for MSATS document of the:

- GPSCoordinatesLat to define the minimum decimal place requirement as 5 decimal places.
- GPSCoordinatesLong to define the minimum decimal place requirement as 5 decimal places.

Further, AEMO proposes to allow the 7 decimal places allocation, for those participants who may have already built or implemented a GPS Coordinate solution.

Document	Section	Description
Standing Data for MSATS	Table 3	Minimum requirement for GPS Coordinates defined as being between 5 and 7 decimal places

In response to the Proposal:

- AGL, Ergon, Evoenergy, Vector and Origin were supportive;
- Jemena suggested that AEMO could add an extra field to indicate whether the GPS Lat/Long is an "Estimate" or "Site" or "Actual" location;
- Origin and Endeavour suggested applying GPS Coordinate requirements to NCONUML NMIs; and
- Endeavour noted that latitude values are likely to be negative.

3.7.2 AEMO's assessment

AEMO's assessment is that:

- Jemena's suggestion has not been echoed by other participants and AEMO is unable to propose to accommodate the suggestion at this stage.
- The suggestion of Origin and Endeavour cannot be accommodated because GPS Coordinates are at the Meter level and many NCONUMLs do not have a meter or have a one-to-many relationship between assets and meters. This issue is currently being outworked by the ERCF and is out of scope for the Consultation.

3.7.3 AEMO's conclusion

AEMO's conclusion is to update the minimum latitude to -99.9999999 as this reflects the fact NEM NMIs are located in the southern hemisphere.

3.8 Connection Configuration Clarification

3.8.1 Issue Summary and Submissions

Context

AEMO's MSDR Final Determination, published on 7 September 2020, introduced a new field, Connection Configuration, which is defined as follows.

> Two-character code to denote information about the configuration of the connection point.
>
> First Character = Connection Type
>
> H = High voltage (as defined in the NER)
>
> L = Low voltage (lower than the threshold defined for high voltage in the NER)

Second Character = Phases In Use 1 = Single Phase 2 = Two-Phase 3 = Three-Phase

This field was initially located within the NMI Data table, as a mandatory field, to be populated by the LNSP. The Second Character is defined as the phases available at the connection point, rather than literal phases in use. For example, if a premise has a 3-phase service main to its connection point, but only actually uses 1 phase at the metering installation, then the second character would be 3, not 1. The MSDR intends to enable the sharing of key information, to minimise wasted site visits by MPs. In the above example, the MP would not know whether the existing metering installation is connected as single phase or three-phase. Accordingly, the MP would be unable to appropriately quote, or to know which meter is required, without a site visit in advance.

These circumstances make the information in the field unreliable for the purposes of market operations. Consequently, the LNSP would be obliged to maintain this information, for little benefit.

The Electricity Retail Market Procedures March 2021 consultation proposed to:

- Redefine 'Connection Configuration' as 'Phases in Use', instead of phases available at the connection point.
- Instantly overwrite the current definition, thereby improving operational efficiency, because its implementation is expected to coincide with the effective date of MSDR Stage 1.

This proposal was not endorsed by a majority of respondents and was subsequently rejected. However, ongoing discussions in the ERCF have highlighted the need to clarify rather than change the Connection Configuration field.

The ERCF agreed to retain the principles that:

- The field should continue to have two characters, as outlined above.
- The LNSP should continue to be responsible for the field.

Proposal

The ERCF also agreed to propose that:

- A note should be included to provide guidance to the field, which states that 'Information registered with a Greenfield NMI may be subject to change during the connection process', reflecting the fact that the phases available may change over time.
- The 'Phase' value will refer to 'Phases to the NMI', rather than to the meter.

This Change will improve clarity within the market and operational efficiency.

Document	Section	Description
document	Table 12	Statements added as set out above

In response to the Proposal:

- AGL, Ergon, Evoenergy. Vector and Origin were supportive;
- Evoenergy proposed several further changes be made to complete the consolidation and clarify intent of the document;
- Origin suggested it would be beneficial to include the meter type and element on the meter level information;

- Red and Lumo suggested the field be representative of both phases available and phases in use – as well as being at the meter level, instead of the NM levell, or a mix of the two; and
- Endeavour suggested adding a sentence stating 'Information may be subject to change during the NMI lifecycle'.

3.8.2 AEMO's assessment

AEMO's assessment is that:

- Origin's suggestion is outside of the scope of the Consultation, which is to redefine the field to improve clarity. If Origin wishes to make this change, then AEMO suggests that Origin could raise an ICF at the ERCF for this purpose.
- Red and Lumo's suggested field, if it represented all of the things proposed, would not be able to deliver the same level of clarity as the Procedures propose, as it would be used inconsistently.
- Endeavour's suggestion is not specifically pertinent to connection configuration, because any information may be subject to change during the NMI lifecycle.

3.8.3 AEMO's conclusion

AEMO's conclusion is to update the Standing Data document in order to improve clarity and complete its version consolidation.

3.9 WIGS Clarification

3.9.1 Issue Summary and Submissions

Context

AEMO has noted an inconsistency between WIGS Procedure and the NER with regards to changing MDP. Currently, the WIGS Procedure states that the Current MC may Initiate a Change Request to change an MDP for a transmission network connection point. The correct reference should be to AEMO.

Proposal

AEMO proposes to update the WIGS Procedure to align it to the NER, as follows.

Document	Section	Description
WIGS	8.2.1 8.2.4	Added references to AEMO initiating roles
WIGS	8.2.3	Removed references to the Current MC initiating a Change Request for transmission network connection points, added references to AEMO initiating roles

In response to the Proposal:

- AGL, Evoenergy and Vector were supportive; and
- AGL suggested changing the definition of NREG.

3.9.2 AEMO's assessment

AEMO notes a majority of responses were supportive of the Change. As discussed in the October and November ERCF meetings, the NREG classification would not be suitable for the scenario outlined by AGL. However, AEMO suggests the ERCF review NMI classifications in the future.

3.9.3 AEMO's conclusion

AEMO's conclusion is to proceed with the Proposal.

4. PROCEDURES TO BE CONSOLIDATED

The Proposals involve the consolidation of previously-consulted versions of the Procedures, for the purposes of providing additional clarity. These Procedures changes have already been the subject of formal consultations. Accordingly, AEMO is not requesting comment on these Procedures, other than to rectify any potential consolidation errors. In particular, text that has been removed or reformatted and links that have been updated have not been noted in this Issues Paper.

A summary of the Procedures to be consolidated is included in the Executive Summary of this Issues Paper.

4.1 CATS PROCEDURE

Proposal

The Proposal is to consolidate Versions 4.921-5.0 to CATS Procedure 5.1.

Version	Effective Date	Summary of Changes
4.921	24 October 2021	V4.913 and v4.92 Consolidated
4.93	1 May 2022	MSATS Standing Data Review Phase 1 – New and amended fields
4.94	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): • ICF_013 Change Cancellation Timeframe for CR6800 • ICF_016 Reinstate the MC Objection of "BadParty" for Victorian SMALL NMIs • ICF_031 Definitions of SMALL and LARGE NMI Classifications
4.95	1 May 2022	Updated as part of Retail Electricity Market Procedures March 2021 Consultation for ICF_037 Redefinition of 'Connection Configuration'
5.0	1 May 2022	Updated to incorporate National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14
5.1	1 May 2022	NREG and GENERATR NMI Classifications (CIP_050) updated. Consolidated v4.921, v4.93, v4.94, v4.95 and v5.0 as part of Retail Electricity October consultation.

The Changes are as follows:

Section	Description
.2 2.6 2.9 2.10 2.11 3 4 7	Global Settlement-related changes
2.2 2.3 2.5	Added Shared Fuse obligations

Section	Description
2.6	
2.9	GNAF obligations for AEMO added
2.10 2.11	Updated change cancellation timeframe for CR6800
4.1	References to unstructured addresses removed
4.8	BADPARTY objections clarified for Victoria
4.9	NMI classification references updated
9.1.4 9.2.4 9.3.4 9.4.4 10.1.4 10.2.4 10.3.4 10.4.4 10.5.4 12.2.4 12.2.5 12.3.4 12.5.4 15.1.4	Added Connection Configuration, Shared Isolation Point Flag and other MSDR obligations
CATS Tables	Tables updated with reference to MSDR

In response to the Proposal:

- Ergon was supportive.
- Endeavour, Evoenergy, Vector, Citipower Powercor and United Energy suggested clerical and grammatical changes.
- Origin noted the Changes.

4.1.1 AEMO's assessment

The majority of respondents supported the Proposal. The suggestions made by Endeavour, Evoenergy, Vector, Citipower Powercor and United Energy would improve participant clarity with regards to understanding the Procedures.

4.1.2 AEMO's conclusion

AEMO's conclusion is to update the grammar in the Procedures in line with the above suggestions.

4.2 WIGS PROCEDURE

Proposal

The Proposal is to consolidate Versions 4.921-5.0 to WIGS Procedure 5.1.

Version	Effective Date	Summary of Changes
4.921	24 October 2021	v4.913 and v4.92 Consolidated
4.93	1 May 2022	MSDR Phase 1 – New and amended fields
4.94	1 May 2022	Version control to align to the CATS Procedure

Version	Effective Date	Summary of Changes
4.95	1 May 2022	Updated as part of Retail Electricity Market Procedures March 2021 Consultation for ICF_037 Redefinition of 'Connection Configuration'
5.0	1 May 2022	Updated to incorporate National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14.
5.1	1 May 2022	Clarified changing MDP roles, consolidated v4.921, v4.93, v4.94, v4.95 and v5.0 as part of Retail Electricity October consultation.

The Changes are as follows:

Section	Description
4.1.4 4.2.4 4.3.4 5.1.4 5.2.4 5.3.4 5.4.4 7.1.4 7.2.3 9.1.4 7.2.3	Added and updated MSDR obligations and change request updates regarding LNSP and MPB requirements and TNI2 references
2.1.2 2.1.6 2.2.2 2.2.3 3.1.2 4.1.2 4.1.7 4.1.8 4.3.6 4.3.7 5.2.2 5.2.7 5.3.2 6.3.2 6.3.4 7.1.9 7.1.10 7.3.2 7.3.7 8.1.4 8.2.1 8.2.2 8.2.3 8.2.4 8.2.9 8.3.5 8.4.2 8.4.6 8.5.5	Global Settlement (GS)-related changes such as ENLRs and NMI Classification Codes and document restructuring.

Section	Description
8.6.6 9.2.1 9.2.2 10.1.1 10.1.5	

In response to the Proposal:

- Origin noted the Changes.

4.2.1 AEMO's assessment

The majority of respondents supported the Proposal.

4.2.2 AEMO's conclusion

AEMO's conclusion is to proceed with the Proposal.

4.3 Metrology Procedure Part A

Proposal

The Proposal is to consolidate Versions 7.01-7.31 to Metrology Procedure Part A 7.4.

Version	Effective Date	Summary of Changes
7.01	1 October 2021	V6.05 and v7.0 consolidated
7.1	1 May 2022	Updated to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14
7.3	1 May 2022	Updated to incorporate National Electricity Amendment (Introduction of metering coordinator planned interruptions) Rule 2020 No. 7.
7.31	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): • ICF_019 Metrology Procedure sampling methodology • ICF_020 Changes to the clause 4.2 of the SLP to avoid confusion with the terms validation vs verification
7.4	1 May 2022	Clarified clauses and updated Australian Standard References. Consolidated versions v7.1, v7.3 and v7.31 according to October Retail Electricity Consultation.

The Changes are as follows.

Section	Description
Various	Grammar changes
3.1	References to International Standards
3.3	Passwords clarification
1.3 6 7	Minor clarifications
3.4 12.3 12.4 12.5 12.7	GS-related changes
14	Shared Fuse Arrangements

In response to the Proposal, AGL noted that V7.32 of Metrology Procedure Part A has been missed in the consolidation.

4.3.1 AEMO's assessment

The majority of respondents supported the Proposal. AEMO's assessment is consistent with AGL's and the clauses are proposed to be further edited.

4.3.2 AEMO's conclusion

AEMO's conclusion is to update Metrology Procedure Part A to improve clarity and complete the consolidation.

4.4 Metrology Procedure Part B

Proposal

The Proposal is to consolidate Versions 7.021-7.31 to Metrology Procedure Part B. 7.4

Version	Effective Date	Summary of Changes
7.021	24 October 2021	v7.011 and v7.02 Consolidated
7.03	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): • ICF_020 Changes to the clause 4.2 of the SLP to avoid confusion with the terms validation vs verification
7.1	1 May 2022	Updated to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14
7.2	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): • ICF_021 Removal of End User Details from the Inventory table
7.21	1 May 2022	Updated to reflect: • inclusion of Cross Boundary inflow to a Profile Area in NSLP calculation, and • detail of Scaling Factors that are currently used in CLP calculation
7.3	1 May 2022	Consolidated v7.021, v7.03, v7.1, v7.2 and v7.21 as part of Retail Electricity October 2021 Consultation.

The Changes are as follows:

Section	Description
2.2 2.5 3.2 3.3 3.3.6 3.3.8 4.2 4.3 4.3.3 4.3.5 4.3.6 5.2 5.2.1 5.2.6 5.3 5.3.4 5.3.6	Global Settlement-related updates

Section	Description
6.1 6.2 6.2.4 11.1 11.2 11.4 11.5 12.3 12.4 13 13.2.1 13.2.2 13.3.2 13.5.2 14.2.2 14.3	
4.3.6	Clerical clarifications
11.3 11.4 12.4 13.1.2 13.2.1 13.2.2	Scaling Factors & Cross Boundary inflow clarifications
9	Clarification of 'Verification' and 'Validation'

In response to the Proposal:

- AGL and Ergon stated their support;
- Origin noted the Changes; and
- Evoenergy suggested a range of grammatical corrections.

4.4.1 AEMO's assessment

The majority of respondents supported the Proposal. Evoenergy's suggestions would improve participant clarity with regards to understanding the Procedures.

4.4.2 AEMO's conclusion

AEMO's conclusion is to update the grammar in the Procedures in line with Evoenergy's suggestions and the AEMO Style Guide.

4.5 MDM Procedures

Proposal

The Proposal is to consolidate Versions 4.1-4.2 to MDM Procedures 4.3.

Version	Effective Date	Summary of Changes
4.1	1 October 2021	• Added description of 5-minute profile (5MLP) application to 15 and 30-minute metering data • Added detail of RM25 and RM46 Reports • Identifies how parties can access RM Reports

4.2	1 May 2022	Updated to reflect inclusion of Cross Boundary inflow to a Profile Area in the NSLP calculation
4.3	1 May 2022	Consolidated v4.0, 4.1 and v4.2 as part of Retail Electricity October 2021 Consultation.

The Changes are to:

- Add description of 5-minute profile (5MLP) application to 15 and 30-minute metering data.
- Add detail of RM25 and RM46 Reports.
- Identify how parties can access RM Reports.
- Update the relevant provisions to reflect inclusion of Cross Boundary inflow to a Profile Area in the NSLP calculation.

The Changes are detailed as follows.

Section	Description
3.2 Setup Functionality	Section 3.2.3 Characteristics of the 5MLP added
3.2.3 9.14	SMLP and RM Reports changes.
3.2.4 Characteristics of the NSLP	Note added to (a)
3.2.10 Parameters for Settlement Types	5MLP and CLP added to section (b) (iii)
3.2.19 Unaccounted for energy (UFE)	Note added
3.2.18 Processing Overview (b) Step 3	5MLP wording added, referred section numbers amended to 3.2.4 and 3.2.6 Figure 2 Updated
9.1 Introduction	New paragraph added for new reports. Note section added

In response to the Proposal:

- AGL and Ergon indicated their support;
- Origin noted the Proposal; and
- Endeavour noted that the effective date had not been updated from the previous version.

4.5.1 AEMO's assessment and conclusion

The majority of respondents were in support or noted the Proposal. AEMO's conclusion is to implement the Changes, having updated the effective date to reflect a 1 May 2022 implementation in the MDM Procedures.

4.6 RoLR Processes

Proposal

The Proposal is to consolidate Versions 2.0 – 2.2 into RoLR Processes v2.3.

Version	Effective Date	Summary of Changes
2.0	1 May 2022	Updated to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14 into Part A
2.1	1 May 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): • ICF_028 Remove Failed Retailer MSATS user access • Reference corrections

2.2	1 May 2022	Updated to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14 into Part B
2.3	1 May 2022	Consolidated v2.0, v2.1 and v2.2 as part of Retail Electricity October 2021 Consultation.

The Changes are to update:

- V2.0 to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14 into Part A.
- V2.1 to include the following changes from the Metering ICF Package 2020 consultation in respect of the following Information Change Requests (ICFs):
  - ICF_028 Remove Failed Retailer MSATS user access.
  - Reference corrections.
- V2.2 to incorporate National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14 into Part B.

The Changes are detailed as follows.

Section	Description
6.1 AEMO Obligations (d)	Step 13 removed
12.2 AEMO Obligations (e)	"(i.e. where the Failed Retailer is the Current ENLR and the Current FRMP)" wording removed
13.3 AEMO Obligations (iv) (D)	Wording changed to "The New FRMP is the Participant ID specified by the Regulator
Throughout Document	LR updated to ENLR in various places
104.5 RoLR Obligations	Wording to include "LNSP, MC, MP, MDP and other relevant participants"
105.1 Application	Bullet points added to include MC, MP and MDP
Table 105-A	Updated to include MC, MP and/or MDP as relevant

In response:

- AGL, Evoenergy and Vector supported the proposed changes.
- Origin noted the proposed changes.

4.6.1 AEMO's assessment and conclusion

AEMO's conclusion is to proceed with the Changes as proposed in the drafted Procedures.

4.7 Glossary and Framework

Proposal

The Proposal is to consolidate Versions 3.31-3.41 below versions into Glossary and Framework v3.5.

Version	Effective Date	Summary of Changes
3.31	24 October 2021	v3.2 and v3.3 Consolidated
3.4	1 May 2022	MSATS Standing Data Review – New and amended fields
3.41	1 May 2022	• Updated to reflect the Metering ICF Package 2020 consultation in respect of ICF_020 Changes to clause 4.2 of the SLP to avoid confusion associated with the terms validation and verification
3.5	1 May 2022	Consolidated v3.31, v3.4 and v3.41.

The Changes are as follows:

- V3.4 to include MSATS Standing Data Review – New and amended fields.

- V3.41 to reflect the Metering ICF Package 2020 consultation in respect of ICF_020 Changes to clause 4.2 of the SLP, to avoid confusion associated with the terms validation and verification.

The Changes are detailed as follows.

Section	Description
5.0 Glossary	Definition of Controlled Load edited to include "a network device"
5.0 Glossary	Added – Shared Fuse Arrangement
5.0 Glossary	Spelling errors corrected for Special Site and Special Sites Document
5.0 Glossary	Definition of Validation edited
5.0 Glossary	Added - Verification

In response to the Proposal:

- Ergon supported the Change.
- Origin noted the Change.
- AGL and Endeavour provided suggestions to clarify the definition of Controlled Load.

4.7.1 AEMO's assessment and conclusion

Accordingly, AEMO's conclusion is to update the description of Controlled Load and otherwise proceed with the Proposal.

4.8 Standing Data for MSATS document

Proposal

The Proposal is to consolidate Versions 4.52-5.1 into Standing Data for MSATS document v5.11.

Version	Effective Date	Summary of Changes
4.52	1 October 2021	v4.5 and v4.51 consolidation
4.6	1 May 2022	MSATS Standing Data Review Phase 1 – New and amended fields
5.0	1 May 2022	Updated to incorporate amendments for National Electricity Amendment (Global Settlement and Market Reconciliation) Rule 2018 No 14.
5.1	1 May 2022	Updated as part of Retail Electricity Market Procedures March 2021 Consultation for ICF_037 Redefinition of 'Connection Configuration'
5.11	1 May 2022	Updated Controlled Load Enumerations, GPS Coordinates Minimum Requirements and clarified connection configuration as part of Retail Electricity October 2021 consultation. Consolidated v4.52, v4.6, v5.0 and v5.1.

The Changes are as follows.

Section	Description
2 3.2 4.1 4.2 4.3 5.1 5.2 5.3	GS-related changes

Section	Description
6.1 6.2 6.3 7.1 7.2 7.3 8.1 8.2 8.3 9.1 9.2 9.3 10.2 10.3 11 13 14	
Table 3 Table 6 Table 8 Section 11 Table 26 Table 30 Table 32 Table 34 Table 36 Table 38 Table 40 Table 42 Table 44 Table 45 Table 48 Table 51 Table 54	MSDR-related changes

In response to the Proposal:

- AGL, Ergon were supportive.
- Origin notes the changes.
- Ausnet Services, Endeavour and Evoenergy suggested further changes to complete the consolidation.

4.8.1 AEMO's assessment

AEMO notes a majority of comments supported the Changes or noted them.

4.8.2 AEMO's conclusion

Accordingly, AEMO's conclusion is to update the document to improve clarity and complete the consolidation.

5. SUMMARY OF PROCEDURE CHANGES AND CONSOLIDATIONS

To help stakeholders and other interested parties to respond to this Draft Report, AEMO has published draft versions of the Procedures included in this Consultation, which incorporate the Changes in accordance with the Proposals.

The change-marked versions are available at: https://aemo.com.au/consultations/current-and-closed-consultations/b2m-october-2021. To request an editable version of the draft Procedures in .rtf format, please email NEM.Retailprocedureconsultations@aemo.com.au. Note: pdf is always the 'official version'.

The Procedures on which AEMO invites feedback in this Consultation are:

- B2B Process
- CATS Procedure
- WIGS Procedure
- MDFF Specification
- Metrology Procedure Part A
- Metrology Procedure Part B
- MDM Procedures
- RoLR Processes
- Glossary and Framework
- Standing Data document

A summary of the Procedures which are affected by particular Change Proposals is included in the Executive Summary of this Draft Report.

AEMO must receive submissions on these Change Proposals by 5.00 pm (Melbourne time) on Tuesday 21 December 2021.

APPENDIX A. SUMMARY OF SUBMISSIONS AND AEMO RESPONSES

Table 4 Questions on proposed changes

No.	Consulted person	Participant comment	AEMO response
	Question 1: Does your organisation support the proposals contained in the Issues Paper? If not, please specify areas in which your organisation disputes AEMO's assessment (include ICF reference number) of the proposal and include information that supports your rationale why you do not support AEMO's assessment.		
1.	AGL	In general AGL supports the proposed changes, although AGL has specific issues with certain outcomes/changes (Metrology A and NMI Classification), which have specific comments.	AEMO notes the respondent's support for the changes.
2.	Ergon Energy, Energex, Yurika Metering and Energy Queensland (Ergon)	We support the changes in this Issues Paper.	AEMO notes the respondent's support for the changes.
3.	PLUS ES	PLUS ES supports the proposals with a few comments noted below.	AEMO notes the respondent's support for the changes.
4.	Evoenergy	Yes	AEMO notes the respondent's support for the changes.
5.	Jemena	Yes	AEMO notes the respondent's support for the changes.
6.	Origin Energy (Origin)	Origin is supportive of these changes.	AEMO notes the respondent's support for the changes.
7.	Red Energy and Lumo Energy (Red/Lumo)	Red Energy and Lumo Energy (Red and Lumo) support the proposals contained in the issues paper.	AEMO notes the respondent's support for the changes.
8.	South Australia Power Networks (SAPN)	SA Power Networks wishes to raise a comment linked to CIP_042 Reason Code – see details in section 3 below.	AEMO notes the respondent's comment.
9.	Vector Metering (Vector)	Yes	AEMO notes the respondent's support for the changes.
	Question 2: Are there better options to accommodate the change proposals that better achieve the required objectives? What are the pros and cons of these options? How would they be implemented?		
10.	AGL	In general, the proposed outcomes should be appropriate – noting the items which AGL has issues with and which have associated proposals.	AEMO notes the respondent's comment.
11.	Ergon	We have no other suggested options.	AEMO notes the respondent's comment.
12.	Evoenergy	No comment.	
13.	Jemena	NO	AEMO notes the respondent's support for the changes.

No.	Consulted person	Participant comment	AEMO response
14.	Red/Lumo	In regards to ICF_037, Red and Lumo continue to see value in the Connection Configuration field being representative of both phases available and phases in use – as well as being at the meter level instead of NMI, or a mix of the two.	AEMO notes the respondent's comment. If the Connection Configuration field represented all of the things proposed, it would not be able to deliver the same level of clarity as the Procedures propose as it would be used inconsistently.
15.	Origin	No comments	
	Question 3: What are the main challenges in adopting these proposed changes? How should these challenges be addressed?		
16.	Origin	No comments	
17.	AGL	As with the majority of procedural changes, the outcome will require business and system process changes.	AEMO notes the respondent's comment.
18.	Endeavour Energy (Endeavour)	We note that this change will require a schema change along with major system and process changes. We also understand that for most market participants this change is mandatory in order to comply with the new proposed obligations. However AEMO is proposing that market trial starts 28/03/2022, which is four weeks prior to the 1 May 2022 go-live date. We believe that this can be challenging for the size of this change and can introduce risk of issues not identified or fixed prior to go live. In addition, we have a major internal project with strict timelines and resourcing requirements which will add to this challenge. We also note that to date we have not received written commitment from AEMO on when the final version of the new schema definition will be released. We suggest that AEMO commits to releasing the final version of the new schema definition by the end of November 2021 and considers providing at least 12 weeks for the market trial.	AEMO notes the respondent's comment. Discussions regarding the data transition are currently ongoing and the implementation of MSDR is currently undergoing a Minor Amendment.
19.	Ergon	We suggest the main challenges with adopting these changes include the costs to implement; business and vendor resources for development; and balancing changes occurring in parallel with other consultation packages.	AEMO notes the respondent's comment. Please refer to the response in Table 4, row 18.
20.	Evoenergy	Costly system and extensive business process changes required.	AEMO notes the respondent's comment. Please refer to the response in Table 4, row 18.
21.	Jemena	Data Transition • Clarity of Compliance Holiday requirements (esp GPS and validation) • Timeliness/availability of BUT Tools. • Clarity of variations between jurisdictions in documentation.	AEMO notes the respondent's comment. Please refer to the response in Table 4, row 18.
22.	Vector	Changes to MET A. 12.5 require MP's to implement new processes to run a sample program for remotely read meters. The high volumes of remotely meters will result in large family sizes and corresponding sample sizes, therefore the current manual	AEMO notes the respondent's comment. Please refer to the response in Table 4, row 18.

No.	Consulted person	Participant comment	AEMO response
		processes in place for manually read meters will need to be automated for remotely read meters so adequate time is required to allow these to be put in place.	
	Question 4: Do you have any further questions or comments in relation to the proposals described above?		
23.	AGL Evoenergy	No.	AEMO notes the respondent's comment.
24.	Ergon	We would like clarity on the implications on this package of any delays to MSATS Standing Data or Metering Coordinator Planned Interruptions. For example, could these changes progress independently of other consultations?	AEMO notes the respondent's comment. As the schema change in relation to MSDR and MCPI will still take place on 1 May 2022, there should not be any impact on the implementation of consultation.
25.	Jemena	GPS Lat/Long AEMO should adding an extra field to indicate if the GPS Lat/Long is an "Estimate" or "Site" or "Actual" location. This will allow participants provide an "estimated" or "site" GPS location when there's no GPS signal onsite. (e.g. underground meter room, shopping centre meter room" Moreover, participant can also use Site (or GIS generated GPS Lat/Long) initially and refine the locations "in the next visit".	AEMO notes the respondent's comment. This is a consolidation piece not a consultation. These changes are final changes and AEMO is unable to propose adding it at this stage of consultation. The respondent may request it by submitting an ICF to the ERCF.
26.	Origin	Origin has some questions documented below in the relevant sections.	AEMO notes the respondent's comment.
	Question 5: Does your organisation have any feedback / suggestions that closely relates to the scope or impacts this consultation, but the nature of the feedback / suggestion warrant further investigations / discussion? If so, please include your feedback / suggestions. Please note that this feedback will be reviewed by AEMO at a later date, therefore will not be used for this consultation. AEMO will complete a preliminary assessment of the feedback assess the feedback and it may then form part of another consultation or the annual prioritisation process.		
27.	AGL	Yes. See comments below, in particular the issue of the NMI classification changes, which would see sites with a small load and very large export be classified as a 'small' NMI.	AEMO notes the respondent's comment. As discussed in the October and November ERCF meetings, the NREG classification would not be suitable for this scenario. However, NMI classifications should be reviewed by industry in the future.
28.	Ergon	We have no fu[r]ther comments.	AEMO notes the respondent's comment.
29.	Evoenergy	No comment.	
30.	Origin	Origin broadly supports the proposed changes, with inclusion of NCONUML requirements. This is in line with OE's pending ICF that proposes GPS Latitude and Longitude to be included in MSATS standing data for NCONUML connection points.	AEMO notes the respondent's support for the changes and that GPS Coordinates for NCONUML are out of scope for this consultation. AEMO proposes that the GPS coordinates do not currently apply to NCONUML NMIs

No.	Consulted person	Participant comment	AEMO response
			and notes that Origin's ICF was discussed in the November 2021 ERCF meeting.
31.	Vector	No	AEMO notes the respondent's comment.

Table 5 Feedback on proposed amendments

No.	Consulted person	Participant comment	AEMO response
	B2B E-Hub Participant Accreditation and Revocation Process (CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)		
1.	AGL	AGL seeks more feedback on the regulatory requirements / obligations for third party B2B participants and suggest that B2B access only be provided to Registered Participants. See comments below.	AEMO notes the respondent's comment.
2.	Ergon	We support this process.	AEMO notes the respondent's support for this change.
3.	Evoenergy	Agree with changes as it adds clarity and minimises manual intervention.	AEMO notes the respondent's support for this change.
4.	Origin	Origin supports these changes and the efficiencies it will enable.	AEMO notes the respondent's support for this change.
5.	SAPN	No comment	
	Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)		
6.	AGL	As advised, AGL believes that there is a gap in the NMI classifications that leave sites with large volume output (eg Solar farms) but small consumption, with the option to classify the NMI as small. AGL does not consider this an appropriate outcome. The classifications are predominantly based on consumption, not through put. AGL submitted a further adjusted proposed amendment to the NREG definition to capture these sites (see S10) . AEMO did not agree with the original proposed amendment and indicated that they would review the issue and provide advice. AGL would prefer to see this issue resolved as part of this consultation.	AEMO notes the respondent's comment. Please refer to the response in Table 5, item 20.
7.	Ergon	We support these changes and all identified impacts are currently being addressed.	AEMO notes the respondent's support for this change.
8.	Evoenergy	Agree with changes as it adds clarity.	AEMO notes the respondent's support for this change.
9.	Origin	Origin supports these changes.	AEMO notes the respondent's support for this change.
10.	SAPN	No comment	
	Meter Data File Format Specification (MDFF) NEM12 & NEM13 (CIP_042 Reason Code)		
11.	AGL	AGL supports this change	AEMO notes the respondent's support for this change.
12.	Ergon	We support these changes.	AEMO notes the respondent's support for this change.
13.	Evoenergy	Agree with changes as it adds clarity.	AEMO notes the respondent's support for this change.
14.	Origin	Origin supports these changes, and also suggests a further amendment to the reason codes (details in section below).	AEMO notes the respondent's support for this change.

No.	Consulted person	Participant comment	AEMO response
15.	SAPN	SA Power Networks believe there is value in retaining reason code 4 - (Dangerous Dog). When attending sites, we treat the presence of a dog differently depending on known history and information along with the assessment at the time of attendance. We believe that retaining the 2 reason codes provides better visibility to the Retailers as to why a meter reading was not able to be obtained. We support all other changes being made to reason codes via this CIP_042 except the removal of the above reason code 4.	AEMO notes the respondent's comment. However, a majority of participants do not see value in retaining reason code 4 and the streamlining of customer communications will result in better outcomes for the market.
	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)		
16.	AGL	AGL supports this change	AEMO notes the respondent's support for this change.
17.	Ergon	Please refer to our specific comment regarding 'Shared Fuse Arrangements' in Section 7 below.	AEMO notes the respondent's comment.
18.	PLUS ES	Metrology Part A Clause 12.5 Title – Clauses 4.2(a)(iii) and 4.2(b) of the Metering Provider Service Level Procedures (MP SLP) cater for whole current small customer metering installations and manually read metering installations. Manually read installations would include CT manually read metering. The current amended wording of Metrology Part A 12.5 'for small customers' effectively exclude manually read CT metering and does not resolve the inconsistency with MDP SLP Clause 4.2(b).	AEMO notes the respondent's comment. The clauses have been made more consistent as MP SLP Clause 4.2(b) refers to all manually read metering, including CT metering. The SLP allows for the processes that are detailed in the Metrology Procedure Part A to be used.
19.	Evoenergy	Agree with changes as it adds clarity and minimises manual intervention.	AEMO notes the respondent's support for this change.
20.	Origin	Origin supports both of these proposals, however for CIP_046, Origin suggests that there should be some clarification whether NCONMUL is included.	AEMO notes the respondent's support for this change. It is not suitable to provide GPS Coordinates to NCONUML NMIs as GPS Coordinates are at the Meter level and many NCONUMLs do not have a meter or have a one-to-many relationship between assets and meters. This issue is currently under consideration by the ERCF.
21.	SAPN	No comment	
22.	Vector	See below.	AEMO notes the respondent's comment.
	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053 GPS Coordinates Minimum Standard)		
23.	AGL	AGL supports this change	AEMO notes the respondent's support for this change.
24.	Ergon	We support these changes and all identified impacts are currently being addressed.	AEMO notes the respondent's support for this change.
25.	PLUS ES	Controlled Load Enumerations – PLUS ES recommends the definitions of YES and EXT be further clarified/simplified to indicate that YES is controlled internally by the meter. Additionally, the controlled	AEMO notes the respondent's comment. The current definition of 'YES' provides flexibility for the market. AEMO proposes to retain the clauses as proposed.

No.	Consulted person	Participant comment	AEMO response
		load may or may not be associated with a network controlled load tariff; for example, SAPN TOU tariff.	
26.	Evoenergy	Agree with changes as it adds clarity.	AEMO notes the respondent's support for this change.
27.	Jemena	CIP_053 GPS - Provided in the Data Transition Feedback	AEMO notes the respondent's comment. Discussions regarding the data transition are currently ongoing.
28.	Origin	Origin supports both of these proposals, however has some questions / suggestions (details in section below).	AEMO notes the respondent's support for this change.
29.	SAPN	No comment	

Table 6 Feedback on consolidations

No.	Document	Clause	Consulted person	Participant comment	AEMO response
1.	CATS		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
2.	CATS		Ergon	We support the version consolidations.	AEMO notes the respondent's support for this change.
3.	CATS		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
4.	CATS	Table 4-D (NMI Classification Codes)	Endeavour	The changes introduced by ICF_031 and finalised in version 4.94 of the CATS Procedure is not captured in this draft. For completeness, we suggest that this change be included in version 5.1.	AEMO notes the respondent's comment. Clause 4.4 has been updated.
5.	CATS	V5.1 Clause 4.4	PLUS ES	Clause 4.4. (b) was captured in v4.94 and has not been included in v5.1. **4.4. NMI Classification** (a) The NMI Classification Codes 'LARGE' and 'SMALL' are used in these Procedures. They are parameters for defining Change Reason Codes, application timeframes and Objection Rules. ~~(a)~~(b) The NMI Classification Codes 'LARGE' and 'SMALL' are based on the total annual load of the NMI as per Table 4-D. The changes in the NMI Classification Table made in v4.94 have not been included in v5.1. For example, • Small NMI and the associated definition of business and residential customers • Large NMI and the added parameter of business customer. XBOUNDRY | *Connection point where a distribution network connects to another to distribution network* | All~~ALL~~ Typo: The 'to' from '...another to distribution network' in the above XBOUNDRY definition should be removed.	AEMO notes the respondent's comment. Clause 4.4 has been updated. AEMO notes the respondent's comment. Definitions have been included in v5.1. AEMO notes the respondent's comment. 'To' has been removed from XBOUNDRY.

<table>
<tr><th>No.</th><th>Document</th><th>Clause</th><th>Consulted person</th><th>Participant comment</th><th>AEMO response</th></tr>
<tr><td>6.</td><td>CATS</td><td>Section 13.3.6 – CR 6300/01 Objection Rules</td><td>PLUS ES</td><td>The following changes were captured - Objection Rules for CR6300 and CR6301 v4.94 - and have not been included in v5.11.

CR 6300 – Change MC
<table>
<tr><th rowspan="2">Objection Code</th><th rowspan="2">NMI Class</th><th rowspan="2">Jur'n</th><th colspan="2">FRMP</th><th colspan="2">LR</th><th colspan="2">MDP</th><th colspan="2">MPB</th><th colspan="2">RoLR</th><th colspan="2">RP</th><th colspan="2">LNSP</th></tr>
<tr><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th></tr>
<tr><td>CONTRACT</td><td>LARGE</td><td>ALL</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Yes</td><td>-</td><td>-</td></tr>
<tr><td>DECLINED</td><td>ALL</td><td>ALL</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Yes</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>BADPARTY</td><td>SMALL</td><td>VIC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Yes</td><td></td><td></td></tr>
</table>
CR 6301 – Change MC – Retrospective
<table>
<tr><th rowspan="2">Objection Code</th><th rowspan="2">NMI Class</th><th rowspan="2">Jur'n</th><th colspan="2">FRMP</th><th colspan="2">LR</th><th colspan="2">MDP</th><th colspan="2">MPB</th><th colspan="2">RoLR</th><th colspan="2">RP</th><th colspan="2">LNSP</th></tr>
<tr><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th><th>N</th><th>C</th></tr>
<tr><td>DECLINED</td><td>ALL</td><td>ALL</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Yes</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>BADPARTY</td><td>SMALL</td><td>VIC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Yes</td><td></td><td></td></tr>
<tr><td>RETRO</td><td>ALL</td><td>ALL</td><td>-</td><td>Yes</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Yes</td><td>-</td><td>-</td></tr>
</table>
** N = New Role, C = Current Role.</td><td>AEMO notes this has been included in v5.1.</td></tr>
<tr><td>7.</td><td>CATS</td><td>Section 2.10</td><td>PLUS ES</td><td>CATS v5.0 had the following changes AEMO obligations (Section 2.9)

f) Maintain the TNI records in MSATS.

g) Populate MSATS with the NSP2 for the appropriate WIGS NMIs.

~~g)~~(h) Populate MSATS with TNI2 for the appropriate WIGS NMIs.

~~h)~~(i) Provide, on request from the New ENM, a set/range of NMIs to that New ENM for allocation by that ENM to child connection points.

CATSV v5.1 has the following AEMO Obligations:

(e) Populate MSATS with the Embedded Network Code that had been provided to AEMO by the LNSP within two business days of receipt.

(f) Maintain the Transmission Node Identity (TNI Code and TNI Code 2) records in MSATS.

(g) Populate MSATS with the NSP2 for the appropriate Wholesale, Interconnector, Generator and Sample (WIGS) NMIs.

The obligation for AEMO to populate the TNI2 appears to have been missed. The NMI standing Data document indicates that AEMO is the party to provide the value of this field. PLUS ES suggests that the specific obligation for AEMO to populate the TNI2 field is also included for avoidance of doubt, as previously captured in v5.0. Maintaining and populating are 2 separate activities.</td><td>AEMO notes the respondent's comment. This has been updated in 2.10.</td></tr>
<tr><td>8.</td><td>CATS</td><td>Table 16-C</td><td>PLUS ES</td><td>All the new MSATS fields from the MSDR consultation have been included in the Table and not track changed.

PLUS ES proposes they are track changed in the marked up version - for industry clarity.</td><td>AEMO notes this has been shown as a tracked change.</td></tr>
<tr><td>9.</td><td>CATS</td><td></td><td>Origin</td><td>Noted</td><td></td></tr>
</table>

No.	Document	Clause	Consulted person	Participant comment	AEMO response
10.	CATS		Vector	Support	AEMO notes the respondent's support for this change.
11.	WIGS		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
12.	WIGS		Ergon	We have no further comments.	
13.	WIGS		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
14.	WIGS		Origin	Noted	
15.	WIGS		Vector	Support	AEMO notes the respondent's support for this change.
16.	Metrology Part A		AGL	See comments below – V7.2 was not included in the consolidation.	AEMO notes the respondent's comment. A response has been provided below.
17.	Metrology Part A	Version Release History table	Endeavour	The table still list version 7.3 and 7.31 with an effective date of 14 March 2022. However, AEMO published a final notice on 28/06/2021, after a consultation, to move the effective date to 1 May 2022. To avoid confusion, we suggest that this table be updated to show that version 7.3 and 7.31 has an effective date of 1 May 2022.	AEMO notes the respondent's comment. The version history tables have been updated accordingly.
18.	Metrology Part A		Ergon	We support the version consolidations.	AEMO notes the respondent's support for this change.
19.	Metrology Part A		PLUS ES	PLUS ES proposes that subclause 12.2.(i) (i) should be Clause 12.2 (j).	AEMO notes the respondent's comment. The clause has been updated accordingly.
20.	Metrology Part A		PLUS ES	Clause 12.2 (k) was captured in v7.32 of the March Retail Market Procedure Consultation but has been missed in v7.4.	AEMO notes the respondent's comment. The clause has been updated accordingly.

No.	Document	Clause	Consulted person	Participant comment	AEMO response
				(k) When the MC is informed of a *metering data* collection issue, the MC must: (i) within 15 *business days*, take the necessary steps to ensure the missing *metering data* collected; (ii) ensure that the *metering installations' communications interface* is maintained to facilitate ongoing collection of *metering data*; (iii) ensure that *metering data* is collected at a frequency that is within the energy data storage capacity of that *metering installation* such that the *metering data* collection process prevents the loss of actual *metering data*; and ensure that, irrespective of the energy storage capacity of the *metering installation*, the *metering installation* reading frequency must not exceed three months since the last actual read was undertaken.~~The MC must use reasonable endeavours to identify if a metering installation malfunction exists within 7 days from when an MDP informs them that remote acquisition is not available.~~ ~~(i)~~(iv) ~~For metering installations that have remote acquisition, the MC must use reasonable endeavours to collect metering data at a frequency that prevents the loss of actual metering data but at a frequency of no more than 14 days since the last actual metering data was collected when remote acquisition is not available.~~	
21.	Metrology Part A		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
22.	Metrology Part A		Origin	Noted	
23.	Metrology Part A		Vector	Support	AEMO notes the respondent's support for this change.
24.	Metrology Part B		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
25.	Metrology Part B		Ergon	We support the version consolidations.	AEMO notes the respondent's support for this change.
26.	Metrology Part B		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
27.	Metrology Part B		Origin	Noted	
28.	Metrology Part B		Vector	Support	AEMO notes the respondent's support for this change.
29.	MSATS Procedures:		AGL	AGL supports this change	AEMO notes the respondent's support for this change.

No.	Document	Clause	Consulted person	Participant comment	AEMO response
	MDM Procedures				
30.	MSATS Procedures: MDM Procedures		Ergon	We support the version consolidations.	AEMO notes the respondent's support for this change.
31.	MSATS Procedures: MDM Procedures		Origin	Noted	
32.	MSATS Procedures: MDM Procedures		Vector	Support	AEMO notes the respondent's support for this change.
33.	NEM RoLR Processes Part A and Part B		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
34.	NEM RoLR Processes Part A and Part B		Ergon	We have no further comments.	
35.	NEM RoLR Processes Part A and Part B		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
36.	NEM RoLR Processes Part A and Part B		Origin	Noted	
37.	NEM RoLR Processes Part A and Part B		Vector	Support	AEMO notes the respondent's support for this change.

No.	Document	Clause	Consulted person	Participant comment	AEMO response
38.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
39.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		Ergon	We have no further comments.	
40.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
41.	Retail Electricity Market Procedures – Glossary		Origin	Noted	

No.	Document	Clause	Consulted person	Participant comment	AEMO response
	and Framework (Glossary and Framework)				
42.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		Vector	Support	AEMO notes the respondent's support for this change.
43.	Standing Data document		AGL	AGL supports this change	AEMO notes the respondent's support for this change.
44.	Standing Data document	Section 9.1, Table 18 Data Element: Suffix	Ausnet Services	There is a misalignment between the versions for the Standing Data for MSATS document and it is causing issues with the changes that were already consulted upon and agreed with. ICF_029 sought a reversion of the Register ID to NMI Suffix relationship that was imposed in version 5.0 of the document. This was in the Metering ICF Package 2020 Consultation and included in Version 4.51 of the document, as per the version history table. However, due to the misalignment between effective date and versions, this change was dropped in subsequent versions of the document. Please rectify as it does not reflect the correct sequence of changes that were approved prior to the new consultation being opened.	AEMO notes the respondent's comment. The clause has been updated accordingly.
45.	Standing Data document		Ergon	While we support the version consolidation, we found some changes difficult to understand as some of the marked up changes were already in the previous version that pertained to the March 2021 Retailer Electricity Market Procedures consolidation.	AEMO notes the respondent's support for this change.
46.	Standing Data document		PLUS ES	The CurrentTransformerTestDate field was captured in v4.6 and has been missed from v5.11	AEMO notes the respondent's comment. The clause has been updated accordingly.

No.	Document	Clause	Consulted person	Participant comment	AEMO response
				CurrentTransformerTestDate | A date that represents actual test date for metering installations with Current Transformer tested or date represents family expiry date for those included in an approved sample plan. | REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON | MPB	
47.	Standing Data document		Evoenergy	Agree with changes.	AEMO notes the respondent's support for this change.
48.	Standing Data document		Origin	Noted	
49.	Standing Data document		Vector	Support	AEMO notes the respondent's support for this change.
50.	NMI Procedures (V7.0)	Appendix E	Endeavour	Table 5 should be labelled as '1st October 2021 to 30th April 2022' Table 6 should be labelled as 'From 1 May 2022'	AEMO notes the respondent's comment. The NMI Procedures are outside of the scope of this consultation.

Table 7 MDFF NEM12 & NEM13

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	Endeavour	3.3.1.b	Spaces, nulls and commas	Grammatical: suggest the full stop at the start of the sentence be removed	AEMO notes the respondent's comment. The clause has been updated accordingly.
2.	Evoenergy	3.3.1.(b)	Grammatical error.	Fullstop and space at beginning of clause should be removed.	AEMO notes the respondent's comment. The clause has been updated accordingly.
3.	AGL	Appendix E		AGL supports this change	AEMO notes the respondent's support for this change.
4.	Endeavour	Appendix E		Reason Code 0: The example provided is 'system issues which prevent delivery of market data'. We believe that this is a an unhelpful example because if delivery of market data is the issue then communicating the reason	AEMO notes the respondent's comment. This change is consistent with the intent of the CIP and has been updated to include this example.

No.	Consulted person	Section	Description	Participant comments	AEMO response
				code would also be an issue. We suggest that a more realistic example be provided, such as: System issues which prevent the collection of metering data	
5.	Evoenergy	Appendix E	Grammatical error – Reason Code 3.	Add fullstop at end of "...e.g. pandemic." to align with remainder of table standard.	AEMO notes the respondent's comment. This clause has been updated accordingly.
6.	Evoenergy	Appendix E	Grammatical error – Reason Code 67.	Add fullstop at end of "...customer tranfer" to align with remainder of table standard.	AEMO notes the respondent's comment. This clause has been updated accordingly.
7.	Evoenergy	Appendix E	Grammatical error – Reason Code 4 & 16.	Remove fullstops at end of Description to align with remainder of table standard.	AEMO notes the respondent's comment. This clause has been updated accordingly.
8.	Origin	Appendix E Reason Codes	Reason codes amended and removed as described above	Origin supports these changes, and also suggests a further update to the reason code 8 (Vacant Premises) to amend the description to advise Meter reader believes the Site is vacant and was unable to access the meter.	AEMO notes the respondent's comment. This change is consistent with the intent of the CIP and has been updated accordingly.
9.	Origin	Appendix F Obsolete Reason Codes	Reason codes removed from Appendix E to be moved to Appendix F as described as above	Origin Energy supports these changes.	AEMO notes the respondent's support for this change.

Table 8 B2B E-Hub Participant Accreditation and Revocation Process

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	Origin	1.1 Purpose and Scope(c) & (d)	Change of wording to refer to Appendix B and the B2B eHub Self-Accreditation	Origin supports the change in wording.	AEMO notes the respondent's support for the change.
2.	Origin	2.4 Pre-Production Assessment General (a)	Replacement of the requirement to test all transactions, to test a subset of transactions.	Origin supports this replacement.	AEMO notes the respondent's support for the change.
3.	AGL	2.1.1 / 2.5	Regulatory Obligations	Obligations to follow B2B procedures and protocols arise from being registered in the market. If a party is not a registered participant (as considered by 2.5(b)) what regulatory requirements are placed on them when they	AEMO notes the respondent's comment. DRSPs are a Registered Participant but the definition of Third Party Participant in the rules does not include DRSP. The NER

No.	Consulted person	Section	Description	Participant comments	AEMO response
				access Market Net or exchange B2B transactions with other Registered Participants, to ensure they adhere to industry practice and standards and do not disrupt participant B2B processes? The additional category added to Appendix B is DRSP, which is a Registered Participant. Suggest delete the statement regarding not being registered: b. *Third Party B2B Participants*~~, who are not *Registered Participants*~~ must complete the checklist and associated documentation in Appendix C.	states that Third-Party Participants are allowed to participate in B2B transactions so the statement must remain as-is. Just for clarity the definition of Third Party B2B Participant in the rules is: ***Third Party B2B Participant*** A *B2B e-Hub Participant* who is not also a *Distribution Network Service Provider*, *retailer*, *Local Retailer*, *Metering Coordinator*, *Metering Provider* or *Metering Data Provider*. Therefore technically the DRSP is a Third Party B2B Participant. All Third Party Participants will need to seek agreements with other participants to communicate via B2B.
4.	Origin	2.5 Applicant System Testing	Removal of requirement of Stage 1 testing requirements. Change of wording to align with requirement of testing subset of transactions, not all transactions	Origin supports the removal of the Stage 1 testing requirements and the change of wording. Origin also supports the change of the wording.	AEMO notes the respondent's support for the change.
5.	Origin	Appendix B	Removal of the Mandatory/Required column	Origin supports the removal of this column.	AEMO notes the respondent's support for the change.
6.	AGL	Appendix C	Regulatory Obligations	Suggest that Appendix C could then be deleted as this would form part of the registration process.	AEMO notes the respondent's comment. Please refer the response in Table 5, Item 3.
7.	Ergon			We have no comments.	
8.	Evoenergy			No comments.	

Table 9 Metrology Procedure: Part A - National Electricity Market (Metrology Procedure: Part A)

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	Origin	3.1 (b) and (c)	CIP_046 Clarification of Metrology Part A Clause 12.5.	Origin supports both of these changes, however for CIP_046, Origin suggests that there should be some clarification whether NCONMUL is included.	AEMO notes the respondent's support for the change. Please refer to the response given in Table 5, row 20.

No.	Consulted person	Section	Description	Participant comments	AEMO response
			CIP_048 Reference to AS60044.		
2.	AGL	12.2	V7.32 of Met Part A has been missed in the consolidation effort and Cl 12.2 should look like the attached:	(i) For *metering installations* that do not have *remote acquisition*, and where an MC is not a TNSP, the MC must use reasonable endeavours to ensure that each *metering installation* is read at least every three months, and the Meter Reading frequency is agreed with the FRMP. (k) When the MC is informed of a *metering data* collection issue, the MC must: (i) within 15 *business days*, take the necessary steps to ensure the missing *metering data* collected; (ii) ensure that the *metering installations' communications interface* is maintained to facilitate ongoing collection of *metering data*; (iii) ensure that *metering data* is collected at a frequency that is within the energy data storage capacity of that *metering installation*, such that the *metering data* collection process prevents the loss of actual *metering data*; and ensure that, irrespective of the energy storage capacity of the *metering installation*, the *metering installation* reading frequency must not exceed three months since the last actual read was undertaken. ~~The MC must use reasonable endeavours to identify if a metering installation malfunction exists within 7 days from when an MDP informs them that remote acquisition is not available.~~ ~~(i)~~(iv) ~~For metering installations that have remote acquisition, the MC must use reasonable endeavours to collect metering data at a frequency that prevents the loss of actual metering data but at a frequency of no more than 14 days since the last actual metering data was collected when remote acquisition is not available.~~	AEMO notes the respondent's comment and has updated the relevant section accordingly.
3.	Evoenergy	12.4	Part (b)(i), (ii) and (iii)	Suggest the following wording change. (b) The MC must ensure the transfer to AEMO of all interval metering data loads and all accumulated metering data loads. Or Why have two dot points that essentially say deliver all accumulated metering data. Delete point (iii) and modify point (ii) to read "accumulated metering data for all loads."	AEMO notes the respondent's comment. These last two dot points have been combined for readability and consistency.
4.	Origin	12.5 title	Verification of Metering data for whole current Manually Read Metering installations for small customers and Type 7 Metering installations	Origin supports this change.	AEMO notes the respondent's support for the change.
5.	Vector	12.5	Title	While 12.5 section header has changed the first paragraph still refers to whole current manually read metering installations. It is still unclear if these obligations apply to all small customer metering or only manually read. Can AEMO please clarify if this requirement is for both remotely and manually read meters, or only manually read?	AEMO notes the respondent's comment. References to 'manually read' have been removed. The clause has been updated to improve clarity.

No.	Consulted person	Section	Description	Participant comments	AEMO response
				12.5. Verification of *Metering data* for whole current ~~Manually Read~~ *Metering installations* for small customers and Type 7 *Metering installations* To facilitate the verification of *metering data* for whole current manually read *metering installations* and type 7 *metering installations*: (a) Each MC must ensure that a Sample Test Plan is established and maintained in accordance with *Australian Standards* "AS 1199: Sampling procedures for inspection by attributes – Sampling schemes indexed by Acceptance Quality Limit (AQL) for lot-by-lot inspection". (b) Each MC must ensure that the Sample Test Plan is set at General Inspection Level II and initially selected to be a normal inspection sample size using an AQL of 1.5. (c) A test sample is deemed to have passed the verification test when the *metering data* stored in the *metering data services database* is consistent with the *energy data* stored in the *metering installation*. If the *metering data* stored in the *metering data services database* does not match the energy data stored in the *metering installation*, then the test sample is deemed to have failed the verification test and must be rectified. (d) Each MC must ensure the following steps are taken after each round of verification: 1 May 14 March 2022 Page 20 of 30	
6.	Ergon	14	Shared Fuse Arrangements a) Local network Service Providers (LNSPs) must identify, record, and maintain Shared Fuse Arrangements through the Shared Isolation Point Flag in MSATS for every connection point that is part of each specific Shared Fuse Arrangement, as specified in the NER and the MSATS Procedures. b) Financially Responsible Market Participants (FRMPs) and Metering Coordinators (MCs) must notify the Local Network Service Providers (LNSPs) of any new Shared	We note diagrams 1 to 4 reference 'Meter' as opposed to 'NMI', as: 1) a NMI can have one or more meters 2) the Shared Isolation Point Flag is a NMI level flag. We request an update to diagrams 1-4 to display 'NMI X' instead of 'Meter X'.	AEMO notes the respondent's comment. The diagrams have been updated for clarity accordingly.

No.	Consulted person	Section	Description	Participant comments	AEMO response
			Fuse Arrangements or any changes to existing Shared Fuse Arrangements for the connection points relevant to them, as specified in the NER and the MSATS Procedures. c) Metering Provider Category B (MPB) must notify the MC or the FRMP of any new Shared Fuse Arrangements or any changes to existing Shared Fuse Arrangements for the connection points relevant to them, as specified in the MSATS Procedures. d) Participants may access existing connection points' Shared Fuse Arrangements information that is available in the MSATS Standing Data as specified in the MSATS Procedures. Shared Fuse Arrangements for connection points are stored in the Shared Isolation Point Flag field in MSATS which is discoverable via NMI Discovery in MSATS. e) The following diagrams show the correct		

No.	Consulted person	Section	Description	Participant comments	AEMO response
			use of Shared Fuse Isolation Point Flags: Go to the Metrology Procedure: Part A to access the diagrams.		
7.	Evoenergy	Shared Fused Arrangements – Diagrams		I think the diagrams listing only meters adds confusion. One NMI may have multiple meters. Suggest leaving each box with Z or Smart meter/s, but under each have NMI 1, NMI 2 etc.	AEMO notes the respondent's comment. Please refer to the response in Table 6, row 6.

Table 10 Standing Data document

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			AGL supports the changes.	AEMO notes the respondent's support for this change.
2.	Endeavour		Version Release History	We note that an entry for version 4.6 is missing. For completeness we suggest that this be included in this table	AEMO notes the respondent's comment. The version release history has been updated.
3.	Ergon			We support these changes and all identified impacts are currently being addressed.	AEMO notes the respondent's support for this change.
4.	Origin	Version 5.11	Consolidation of versions	Origin notes this change	
5.	Evoenergy	All	Unstructured Address and other elements to be removed.	Those fields getting Removed, should examples be provided? Happy for them to stay in other tables, but is there going to be another consultation on the removals?	AEMO notes the respondent's comment. These fields will be removed in November and the examples will be removed in the associated Procedures.
6.	Evoenergy	2	Wording under "NMIs may or may not have:"	The sentence beginning with "Records on…" should be listed as a dot point in the same way as the two above as it would clearly show requirements.	AEMO notes the respondent's comment. The clause has been updated accordingly.
7.	Origin	Table 3	CIP_053 GPS Coordinates Minimum Requirements.	Origin supports having a minimum and maximum limit documented and suggests that it would be beneficial if this could apply to NCONUML sites also.	AEMO notes the respondent's comment. Please refer to the response given in Table 5, row 20.
8.	Evoenergy	4.2 – Table 4		There is no data element for following to indicate format, max length or aseXML data element name. Current Transformer Test Date	AEMO notes the respondent's comment. The clause has been updated accordingly.

No.	Consulted person	Section	Description	Participant comments	AEMO response
9.	Endeavour	Table 4	CATS_Meter_Register – Browser Cross Reference	GPS Coordinates – Latitude: We note that this value is likely to be a negative value, however the aseXML Data Type suggests that the minimum value is 0. Could you please confirm if a negative value can be provided with the proposed definition and if not then could this be updated so that a negative value can be provided?	AEMO notes the respondent's comment. The clause has been updated accordingly.
10.	Origin	Table 6	Connection configuration clarification.	Origin supports this change, however also suggests that it would be beneficial to include the meter type and element on the meter level information. This would allow accurate customer billing and reconciliation between metering providers and networks. Pricing for metering is set based upon meter type. Currently this information is not held in the standing data.	AEMO notes the respondent's support for this change. This exercise is to clarify the field. Further changes to connection configuration beyond clarifying the field are outside of the scope of this consultation. If the respondent wishes to address this issue, AEMO suggests they submit an ICF to the ERCF.
11.	Vector	Table 6	Connection configuration	The consultation issues paper reports that changes to clarify Connection Configuration were made to the Standing Data for MSATS document. This appears to be missing from the draft document. Table 6 refers to DLFs. Proposal The ERCF also agreed to propose that: • A note should be included to provide guidance to the field, which states that 'Information registered with a Greenfield NMI may be subject to change during the connection process', reflecting the fact that the phases available may change over time. • The 'Phase' value will refer to 'Phases to the NMI', rather than to the meter. This Change will improve clarity within the market and operational efficiency. Document | Section | Description Standing Data for MSATS | Table 6 | Statements added as set out above	AEMO notes the respondent's comment and notes that due to addition of new tables. Table 6 is now referred to as Table 12.
12.	Endeavour	Table 12	CATS_NMI_DATA – Field Definitions	ConnectionConfiguration field: The information in this field can change even when the NMI is active. For example, the customer may upgrade from single phase to three phase. Therefore, for completeness we suggest that the last sentence be replaced with: Information may be subject to change during the NMI lifecycle	AEMO notes the respondent's comment. However, any information may be subject to change during the NMI lifecycle, but this is not particularly pertinent to connection

No.	Consulted person	Section	Description	Participant comments	AEMO response
					configuration. AEMO proposes to retain the clause as proposed.
13.	Evoenergy	7.2 - Table 13		There is no data element for following to indicate format, max length or aseXML data element name. Connection Configuration DP Number GNAF PID House Number To Meter Malfunction Exemption Expiry Date Meter Malfunction Exemption Number Section Number Shared Isolation Point Flag	AEMO notes the respondent's comment. AEMO has updated the clause accordingly.
14.	Endeavour	Table 14	CATS_NMI_Data	The examples provided has both the ChildEmbeddedNetworkIdentifier and ParentEmbeddedNetworkIdentifier populated with the same value for the one NMI. We understand that usually only one of these fields should only be populated, and if both were to be populated (because it is an embedded network within an embedded network) then they should have different values. If our understanding is correct then we suggest that the examples be updated to avoid confusion.	AEMO notes the respondent's comment. In this case, the examples are distinct and do not necessarily represent the same NMI. The clause will remain as-is.
15.	Endeavour	Table 17	CATS_NMI_Data_Stream – Example	We understand that table 17 is meant to provide examples of datastream records, however the examples provided are NMI Data records. We suggest that this be corrected to avoid confusion.	AEMO notes the respondent's comment. AEMO has updated the clause accordingly.
16.	Evoenergy	Table 17	Examples	Incorrect examples provided. This Table 17 should not be here, but be part of Table 14.	AEMO notes the respondent's comment. AEMO has updated the tables accordingly.
17.	Origin	Table 17	CIP_049 Controlled Load Enumerations.	Origin supports simplification of the change, however notes that further discussion may be required regarding the below points: - How will switching between CL options in Qld would be identified/reflected - How will internal meter switching be recognised? Suggestion that 'YES' should be replaced with 'INT' to assist in clarifying.	AEMO notes the respondent's comment. Switching between CL options in Queensland would be set through Network Tariff Codes. No other respondents objected to the use of 'YES' to indicate internal meter switching and replacing it with 'INT' may drive implementation costs up. AEMO

No.	Consulted person	Section	Description	Participant comments	AEMO response
					proposes to keep the changes as-is.
18.	Endeavour	Table 18	CATS_REGISTER_IDENTIFIER – Field Definitions	NMI field: The NMI field has the LNSP as the 'Party to provide'. As this is the Register Identifier table we believe it is more correct to have the MPB nominated as the 'Party to provide'.	AEMO notes the respondent's comment. The clause has been updated accordingly.
19.	Endeavour	Table 18	CATS_REGISTER_IDENTIFIER – Field Definitions	ControlledLoad field: We note that this field has changed from a free text field to an enumerated field, with the allowable values defined in table 30. However, the description of this field still suggests a value for a particular scenario – not only is this redundant but it may also cause confusion because values are not exactly the same (one is all uppercase, while the other is mixed upper and lowercase). In addition, we understand that retailers are starting to offer some innovative tariffs that includes the retailer controlling the customer's load. To avoid confusion with the original intent of this term, we suggest to clarify that this field is in reference to a controlled load that is managed by the network. We suggest that the description of this field be updated to: Indicates whether the energy recorded by this register is associated with a network Controlled Load regime. It must correspond to a valid in the Controlled Load Codes reference table listed in section 11.	AEMO notes the respondent's comment. The proposed description of Controlled Load allows flexibility for the entire market. AEMO proposes to update the clause for clarity but not to make reference to network control.
20.	Evoenergy	Table 18	RegisterID and Suffix	Dot point 2 for Interval meters in both again say "…Suffix must match RegistersID…". This was not agreed with and repeeled in other versions and consultations. Suggested wording for each is below. RegisterID – For Interval Meters, the RegisterID may match… Suffix – For Interval Meters, the Suffix in the CATS_REGISTER_IDENTIFIER table must match the ElectricityDataStream Suffix in the CATS_NMI_DATA_STREAM table.	AEMO notes the respondent's comment. The clause has been updated accordingly.
21.	Endeavour	Table 20	CATS_Register_Identifier - Example	TimeOfDay field: The allowable value for the Time of Day field for an interval meter is INTERVAL. For the avoidance of confusion we suggest that the example be updated to align with the intent of the document.	AEMO notes the respondent's comment. The clause has been updated accordingly.
22.	Endeavour	Table 20	CATS_Register_Identifier - Example	ControlledLoad field: The allowable value for the Time of Day field is NO, YES or EXT. For the avoidance of confusion we suggest that the example be updated to align with the intent of the document.	AEMO notes the respondent's comment. The clause has been updated accordingly.

No.	Consulted person	Section	Description	Participant comments	AEMO response
23.	Evoenergy	Table 20	TimeofDay	Example for Interval meter is incorrect and does not align to allowed values in Table 29. Should be "INTERVAL".	AEMO notes the respondent's comment. The clause has been updated accordingly.
24.	Evoenergy	Table 20	ControlledLoad	Example for Basic meter is incorrect and does not align to allowed values in Table 30. Should be "YES".	AEMO notes the respondent's comment. The clause has been updated accordingly.
25.	Endeavour	Table 30	Valid Controlled Load Codes	We understand that the intent is for the YES value to represent a controlled load register that is switched internally within a meter, while the EXT value represents a controlled load register that is switched externally from the meter. However, the current definition does not clearly make this distinct and it could be interpreted that YES could be used for both when the controlled load is internally within a meter and switched externally from the meter. Such an interpretation would make the information unreliable and cause confusion. In addition, we understand that retailers are starting to offer some innovative tariffs that includes the retailer controlling the customer's load. To avoid confusion with the original intent of this term, we suggest to clarify that these values are in reference to a controlled load that is managed by the network. We suggest that the definition be updated to: NO: the register is not associated with a network controlled load scheme YES: the register is associated with a network controlled load scheme and the load is controlled internally within the meter EXT: the register is associated with a network controlled load scheme and the load is controlled externally from the meter	AEMO notes the respondent's comment. The proposed description of Controlled Load allows flexibility. AEMO proposes to keep the changes as-is.
26.	Endeavour	12	Use of NMI Suffix to populate Cats_Register_Identifier	We understand that datastreams for interval meters must move from net to register, and that from 01/10/2021 net datastreams are not allowed to be created and there is a transitional period for moving existing net datastreams to register datastreams. However this section still describes net datasteam as it is the preferred approach. For example it states: 'For settlements purposes this data must be 'NET' [Export from network, less import to network] and will be 'Nx' for an interval Datastream …' 'For settlements purposes, Interval Meter Datastreams will be the NET suffix (format Nx) …' For the avoidance of confusion, we suggest that this section be reviewed and updated to describe the preferred approach of having register datastream	AEMO notes the respondent's comment. New 'n's cannot be created but the metering data can still be sent at register level by participants. AEMO proposes to keep the changes as-is. AEMO has added a heading as per Evo's suggestion in item 27.

No.	Consulted person	Section	Description	Participant comments	AEMO response
				and maybe with a note that existing net datastreams may continue to exist until they are replaced with register datastreams.	
27.	Evoenergy	12	Historical Information only	Where paragraph starts with "The NMISuffix was first used…" add heading 12.1 Historical Information and Guideline only. Add this as a heading and new clause number here where details how the NMISuffix was used.	AEMO notes the respondent's comment. The clause has been updated accordingly.
28.	Vector	12	USE OF NMI SUFFIX TO POPULATE CATS_REGISTER_IDENTIFIER	This passage on page 71 appears to be out of date as it refers to Nett Datastreams for Interval data. Recommend a review.	AEMO notes the respondent's comment. AEMO has added a heading as per Evo's suggestion in item 27 AEMO requests the respondent to submit an ICF to the ERCF if they believe the addition of the heading still does not provide enough clarity.
29.	Evoenergy	15.1	Table 56 – TimeOfDay	The CL1 should be replaced with YES.	AEMO notes the respondent's comment. The clause has been updated accordingly.
30.	Evoenergy	16	Table 1	Should be Table 57.	AEMO notes the respondent's comment. The clause has been updated accordingly.

Table 11 MSATS Procedures: MSATS Procedures: CATS

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	Evoenergy	All	Codes	Why are some Code tables listed in the Standing Data for MSATS, section 11, and others listed in this Procedure? If you have to specifically point this out [4.7.2(c)], then move that Code into this procedure, otherwise move all the codes listed in this document into Standing Data for MSATS into section 11 [i.e. all in 1 location], and provide appropriate links from this document.	AEMO notes the respondent's comment. These changes would need to be consulted on rather than consolidated and as such would be out of scope. The participant may submit an ICF to the ERCF for further consideration of this issue.
2.	Origin	Version 5.1	Consolidation of versions	Origin notes this change	

No.	Consulted person	Section	Description	Participant comments	AEMO response
3.	Evoenergy	2.3	(b)	Add fullstop at end of sentence to align with other points.	AEMO notes the respondent's comment. The clause has been updated accordingly.
4.	Vector	4.4	NMI Classification	Table from MSATS 4.94 appears to be missing in this version	AEMO notes the respondent's comment. The NMI Classification table has been moved to section 4.5.
5.	Evoenergy	4.5	Table 4-D – XBOUNDRY	Description has too many "to"s in table.	AEMO notes the respondent's comment. The clause has been updated accordingly.
6.	AGL	4.5 NMI Classification	AGL has issues with the current requirements for connection points which have small customer loads but large exports (eg site with small consumption but large solar arrays exporting energy). The proposed change leaves sites like this potentially registering as 'small', which is inappropriate.	Proposed further amendment to NREG NREG Connection point associated with a stand-alone *non-registered embedded generator* at which: • the *embedded generating unit* is classified by a *Market Small Generation Aggregator* as a market generating unit; or • the *embedded generating unit* is owned, operated and controlled by a person who meets the requirements of NER 5.3.1A(c)(2) or (3); or • the *non-registered embedded generator*, defined in NER 5A.A.1, meets the requirements of NER 5A.A.2; or • the output of the *embedded generating unit* substantially exceeds the load at that *connection point*. • ~~the output of the embedded generating unit is consumed by a market load at the same connection point.~~	AEMO notes the respondent's comment. Please refer to the response in Table 5, row 20.
7.	CitiPower Powercor	4.5 NMI Classification	Table 4-D – NMI Classification Codes	V 5.1 of the procedure has not carried forward the changed definition of Large and Small classification codes as defined in ICF_031, effective 1/05/22) for Vic & SA from v 4.94 where: • LARGE is defined as >=160MWh for BUSINESS customers only, and • SMALL is defined as <160MWh for BUSINESS Customers and "Any MWh" for RESIDENTIAL customers See below excerpt from v 4.94 [available in original submission].	AEMO notes the respondent's comment. The clause has been updated accordingly.

No.	Consulted person	Section	Description	Participant comments	AEMO response
				CitiPower Powercor recommends the definitions be updated accordingly.	
8.	Endeavour	4.5 NMI Classification	Table 4-D – NMI Classification Codes	Description for NREG: We understand that the intent of the updated description for NREG is to clarify that NREG should only be applicable for a NMI where the primary purpose of the connection point is for a generating unit only (that is, the connection point has no load, except for auxiliary loads for the generating unit). We note that AEMO has tried to convey this by inserting the word 'stand-alone', however this has caused confusion because this term is commonly used in the industry to mean a back up generator that is not connected to the network. We suggest that the word 'stand-alone' not be used in this description. We support descriptions that are concise and unambiguous, and where possible described in simple plain English - we note that the second bullet point has been updated to become the opposite of this which we believe will be open to interpretation and ultimately lead to confusion. We therefore suggest that the description be updated to: Connection point where: • the embedded generating unit is classified by a Market Small Generation Aggregator as a market generating unit; or • the primary purpose is for a generating unit only and has no load (except for auxiliary loads for the generating unit)	AEMO notes the respondent's comment. However, no other respondents have an issue interpreting 'stand-alone' in reference to a generator. The definition of 'stand-alone' remains unchanged from what was proposed in the Issues Paper.
9.	Origin	4.5	Descriptions updated for GENERATR and NREG	Origin notes this change	
10.	United Energy	4.5 NMI Classification	Table 4-D – NMI Classification Codes	V 5.1 of the procedure has not carried forward the changed definition of Large and Small classification codes as defined in ICF_031, effective 1/05/22) for Vic & SA from v 4.94 where: LARGE is defined as >=160MWh for BUSINESS customers only, and SMALL is defined as <160MWh for BUSINESS Customers and "Any MWh" for RESIDENTIAL customers See below excerpt from v 4.94. United Energy recommends the definitions be updated accordingly.	AEMO notes the respondent's comment. The clause has been updated accordingly.

<table>
<tr><th>No.</th><th>Consulted person</th><th>Section</th><th>Description</th><th>Participant comments</th><th>AEMO response</th></tr>
<tr><td></td><td></td><td></td><td></td><td>
Table 4-D – NMI Classification Codes
<table>
<tr><th colspan="2">Code Information</th><th>Description [2]</th><th>Jurisdiction</th></tr>
<tr><td colspan="2">EPROFILE</td><td>External profile shape</td><td>All</td></tr>
<tr><td colspan="2">GENERATR</td><td>Generator</td><td>All</td></tr>
<tr><td colspan="2">INTERCON</td><td>Interconnector</td><td>All</td></tr>
<tr><td rowspan="3">LARGE [1]</td><td rowspan="3">Business Customer</td><td>>=100 MWh</td><td>Australian Capital Territory
New South Wales
Queensland</td></tr>
<tr><td>>=150 MWh</td><td>Tasmania</td></tr>
<tr><td>>=160 MWh</td><td>South Australia
Victoria</td></tr>
<tr><td colspan="2">SAMPLE</td><td>Sample Meter</td><td>All</td></tr>
<tr><td rowspan="4">SMALL [1]</td><td rowspan="3">Business Customer</td><td><100 MWh</td><td>Australian Capital Territory
New South Wales
Queensland</td></tr>
<tr><td><150MWh</td><td>Tasmania</td></tr>
<tr><td><160MWh</td><td>South Australia
Victoria</td></tr>
<tr><td>Residential Customer</td><td>Any MWh</td><td>All</td></tr>
<tr><td colspan="2">WHOLESAL</td><td>Wholesale Transmission Node Identifier</td><td>All</td></tr>
</table>
Note (1): These codes are used in the CATS Procedures.
Note (2): See relevant Jurisdictional regulation for full details.
</td><td></td></tr>
<tr><td>11.</td><td>Evoenergy</td><td>4.7.2</td><td>Table 4-H – Description of Code A</td><td>Suggest rewording to clarify meaning
Applies when an NMI Datastream Suffix is used in combination with the DataStreamType to determine whether athat DataStream Suffix is to be used in the settlements process or where any other metering data has been configured to support the calculation of Unaccounted for Energy (UFE).</td><td>AEMO notes the respondent's comment. These descriptions were consulted on under 5MS and changing them is out of scope for this consolidation exercise.</td></tr>
<tr><td>12.</td><td>Evoenergy</td><td>4.7.2</td><td>Table 4-H – Description of Code I</td><td>Appears to be two fullstops after UFE.</td><td>AEMO notes the respondent's comment. The clause has been updated accordingly.</td></tr>
<tr><td>13.</td><td>Evoenergy</td><td>4.7.3</td><td>Table 4-I – Description of Code C</td><td>Why are there spaces and " in the description? Are there some words missing?
Suggest rewording all for further clarity and standard.
Applies when the Meter Register associated with the NMI is current.</td><td>AEMO notes the respondent's comment. Inconsistencies in formatting are caused by track-changed changes. Further</td></tr>
</table>

No.	Consulted person	Section	Description	Participant comments	AEMO response
					rewording of these tables is out of scope for this consultation. The clause has been updated accordingly.
14.	Evoenergy	4.7.3	Table 4-I – Description of Code R	Suggest rewording to clarify meaning Appears to be two spaces after UFE.	AEMO notes the respondent's comment. Regarding rewording, please refer to response in Table 11, row 13. The formatting has been updated accordingly.
15.	Evoenergy	4.7.3	Table 4-I – Description of Code D	Suggest rewording to clarify meaning Applies when the Meter Register associated with the NMI is disconnected.	AEMO notes the respondent's comment. Please refer to response in Table 11, row 13.
16.	Evoenergy	4.7.2	Datastream Status Code	Why have two headings the same, meaning the same, but different words. This clause should be part of 4.7.2. Suggest the following 4.7.2, keep (a) delete (b) and replace with 4.11 (b); add 4.11 (c) (d); change 4.7.2 (c) to 4.7.2 (e) then delete 4.11.	AEMO notes the respondent's comment. These descriptions were consulted on under 5MS and changing them is out of scope for this consolidation exercise.
17.	Endeavour	9.1.4.e	LNSP Requirements (for CR2000 & CR2001)	The following data fields are bundled with the unstructured address table when they should be part of the structured address: GNAF PID, Section Number, DP Number and House Number To We suggest that this be corrected.	AEMO notes the respondent's comment. The clause has been updated accordingly.
18.	Endeavour	10.1.4.c	MPB Requirements (for CR3000 & CR3001)	We note that 'GPS Coordinates – Latitude' and 'GPS Coordinates – Longitude' are defined as 'Not Used for NMIS for Type 7 and NCONUML' in the Standing Data for MSATS. However, these fields are defined as mandatory for all CR3000 & CR3001 in the CATS Procedure.	AEMO notes the respondent's comment. In this case, the Standing Data document takes precedence over the CATS Procedure. NCONUML GPS Coordinates are currently being considered by the ERCF.
19.	Ergon			We support these changes and all identified impacts are currently being addressed.	AEMO notes the respondent's support for this change.

Table 12 MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIS (MSATS Procedures: WIGS)

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL		AGL has issues with the current requirements for connection points which have small customer loads but large exports (eg site with small consumption but large solar arrays exporting energy). The proposed change leaves sites like this potentially registering as 'small', which is inappropriate.	Proposed further amendment to NREG Connection point associated with a stand-alone *non-registered embedded generator* at which: • the *embedded generating unit* is classified by a *Market Small Generation Aggregator* as a market generating unit; or • the *embedded generating unit* is owned, operated and controlled by a person who meets the requirements of NER 5.3.1A(c)(2) or (3); or • the *non-registered embedded generator*, defined in NER 5A.A.1, meets the requirements of NER 5A.A.2; or • the output of the *embedded generating unit* substantially exceeds the load at that *connection point.* • ~~the output of the embedded generating unit is consumed by a market load at the same connection point.~~	AEMO notes the respondent's comment. Please refer to the response in Table 5, row 20.
2.	Ergon			We have no comments.	
3.	Evoenergy	All	1.4 – Codes	Same as CATS procedures.	AEMO notes the respondent's comment.
4.	Origin	8.21 8.2.4	Added references to AEMO initiating roles	Origin notes this change	
5.	Origin	8.2.3	Removed references to current MC initiating a Change Request for transmission network connection points, added references to AEMO initiated roles.	Origin notes this change	
6.	Origin	Version 5.1	Consolidation of versions	Origin notes this change	

Table 13 Metrology Procedure: Part B - National Electricity Market (Metrology Procedure: Part B)

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			AGL Supports the changes	AEMO notes the respondent's support for this change.
2.	Ergon			We support the version consolidation and have no identified amendments.	AEMO notes the respondent's support for this change.
3.	Evoenergy	3.3	3.3.6 & 3.3.8	Out of scope I know, but please pass onto the MSWG for consideration. These two (Type 16 and 18) should be merged as a Type 18, and add dot point below (d) as a result of Site or End User information, the original Substitutions are in error and a correction is required.	AEMO notes the respondent's comment. This change is out of scope for this consolidation. The respondent may pursue this issue at the upcoming MDP Working Group meetings to be held in 2022.
4.	Evoenergy	6.1	Point (d) grammatical	Start each dot point with capital letter to conform to other dot points here. Fix the wording and remove the "data" from paragraph. Change to "...Agreed Loads as follows:..."	AEMO notes the respondent's comment. The word 'data' has been removed. Starting each dot point with a lowercase letter is in line with the AEMO Style Guide in this case.
5.	Evoenergy	13.1.3	Point (d) grammatical	The word "each" is listed twice.	AEMO notes the respondent's comment. The clause has been updated accordingly.
6.	Evoenergy	13.1.4	Point (b)	Can you please reword this last sentence for clarity. Suggest making this its own dot point. ...distribution loss factor. (c) An unmetered load NMI cannot have Controlled Unmetered Devices and Uncontrolled Unmetered Devices.	AEMO notes the respondent's comment. The clause has been updated accordingly.
7.	Origin	Version 7.3	Consolidation of versions	Origin notes this change	

Table 14 MSATS Procedures: (Meter Data Management) MDM Procedures

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			AGL Supports the changes	AEMO notes the respondent's support for this change.
2.	Endeavour	Title Page	Effective Date	Suggest that the effective date be updated to 1 May 2022, as per the intention of this consultation	AEMO notes the respondent's comment. The effective date has been updated.

No.	Consulted person	Section	Description	Participant comments	AEMO response
3.	Ergon			We support the version consolidation and have no identified amendments.	AEMO notes the respondent's support for this change.
4.	Evoenergy			No comments.	
5.	Origin	Version 4.3	Consolidation of versions	Origin notes this change	

Table 15 NEM RoLR Processes Part A and Part B

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			AGL Supports the changes	AEMO notes the respondent's support for this change.
2.	Ergon			We have no comments.	
3.	Evoenergy			No comments.	
4.	Origin	Version 2.3	Consolidation of versions	Origin notes this change	

Table 16 Retail Electricity Market Procedures – Glossary and Framework (Glossary/Framework)

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL	5	Controlled Load In consideration of the different methods to control a device such as a battery or air conditioner, which may be done via an inverter or a mechanism other than the meter or network device (eg APIs), AGL suggests the definition be extended.	*Load* that is controlled by an external process or mechanism, which includes the *metering installation* (e.g. frequency injection relay or time clock) or a network device and may be separately metered from the remaining *load* at a *metering point*.	AEMO notes the respondent's comment. The suggestion provides additional clarity and the definition has been updated accordingly.
2.	Endeavour	5	Glossary	Definition of Controlled Load: Th example provided in the definition are examples of network devices. For the avoidance of confusion we suggest the examples are located after mentioning network devices. In addition, we understand that retailers are starting to offer some innovative tariffs that includes the retailer controlling the customer's load. To avoid confusion with the original intent of this term, we suggest clarifying that this term is only in reference to a controlled load that is managed by the network.	AEMO notes the respondent's comment. The clause has been rearranged. The field provides clarity without restricting it to management under network controlled load schemes and AEMO proposes not to update it further.

No.	Consulted person	Section	Description	Participant comments	AEMO response
				We suggest the definition of Controlled Load be reworded to: Load that is managed under a network controlled load scheme that can be controlled by the metering installation or a network device (e.g. frequency injection relay or time clock) and may be separately metered from the remaining load at a metering point. The majority of Controlled Loads are associated with off-peak hot water, pool pumps and air conditioning units.	
3.	Ergon			We support the version consolidation and have no identified amendments.	AEMO notes the respondent's support for this change.
4.	Evoenergy			No comments.	
5.	Origin	Version 3.5	Consolidation of versions	Origin notes this change	

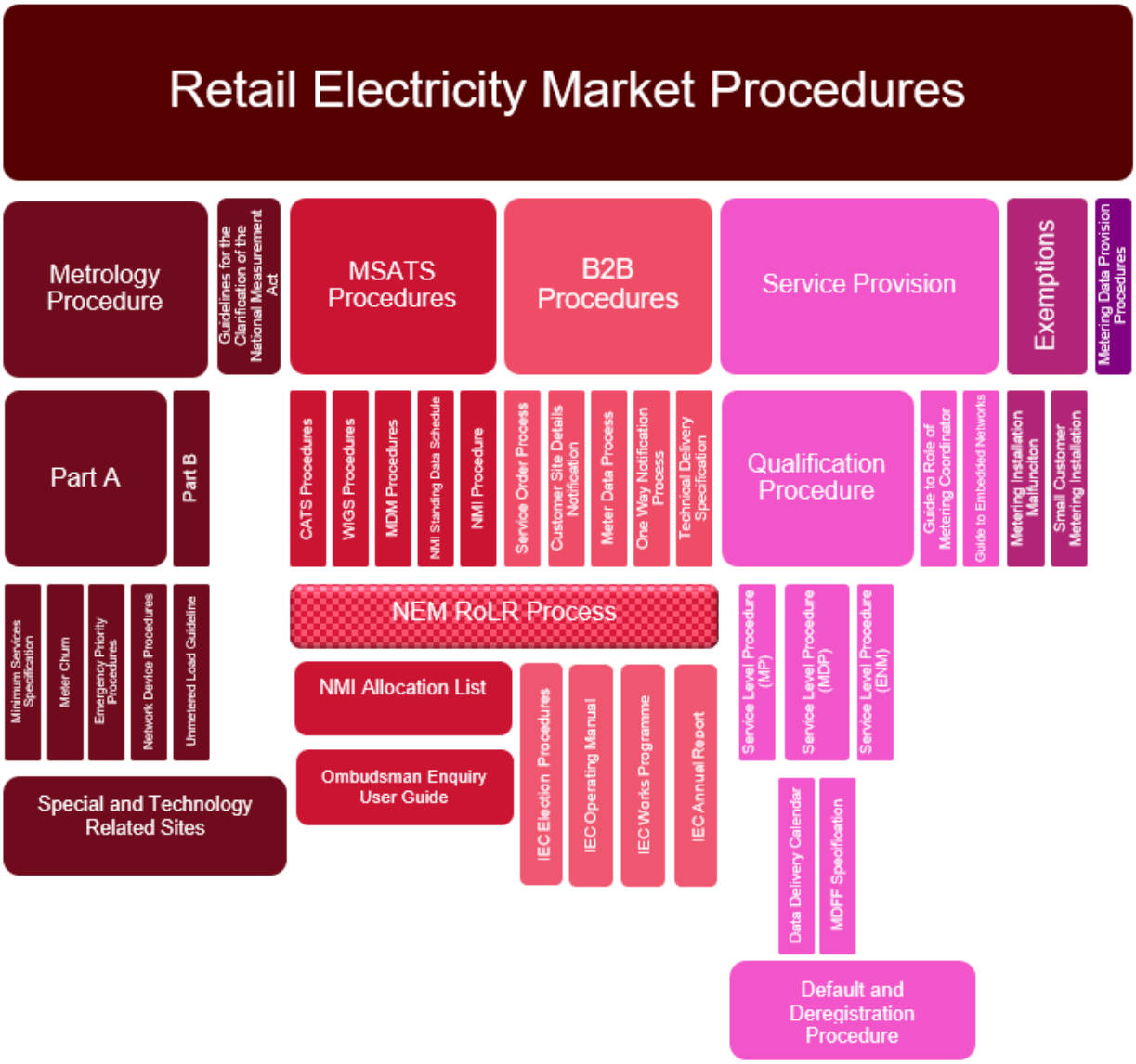
APPENDIX B. GLOSSARY

Term or acronym	Meaning
5MS	Five-Minute Settlement
B2B	Business-to-Business
CATS	Consumer Administration and Transfer Solution, a part of MSATS.
CIP	Change Information Paper
CR	Change Request
DNSP	Distribution Network Service Provider
EN	Embedded Network
ENM	Embedded Network Manager
ERCF	Electricity Retail Consultative Forum
GS	Global Settlement
ICF	Issue / Change Form
LNSP	Local Network Service Provider
LR	Local Retailer
MC	Metering Coordinator
MCPI	Metering Coordinator Planned Interruptions
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
PoC	Power of Choice
SLP	Service Level Procedure
WIGS	Wholesale, Interconnector, Generator and Sample

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.

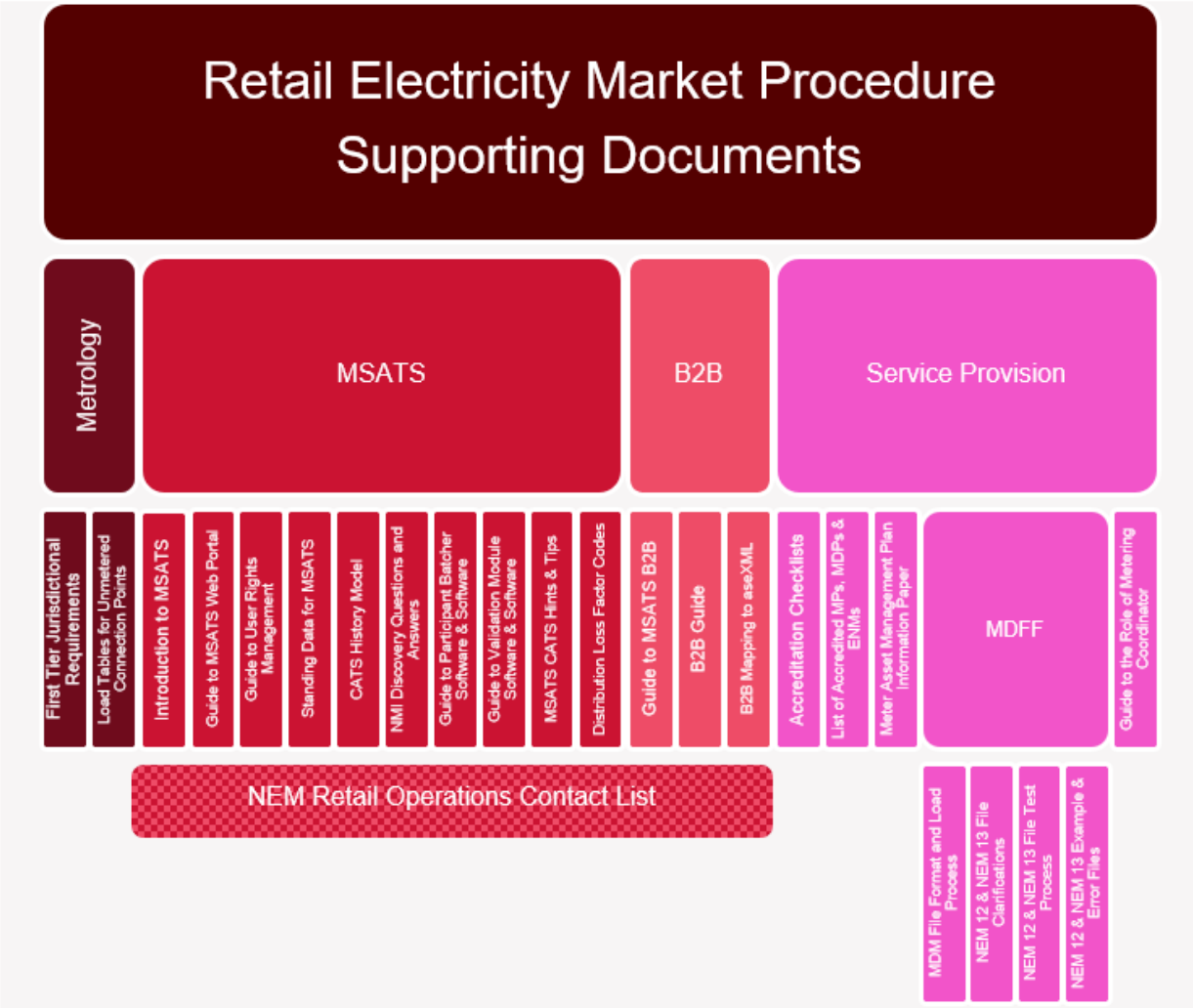



Figure 2 Retail Electricity Market Procedure Supporting Documents