

RETAIL ELECTRICITY MARKET PROCEDURES OCTOBER 2021 CONSULTATION

FINAL REPORT AND DETERMINATION

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EXECUTIVE SUMMARY

The publication of this Final Report and Determination (Final Report) concludes the Rules consultation process (Consultation) conducted by AEMO under the National Electricity Rules (NER) to implement changes (Changes) which were proposed (Proposals) to the following procedures (Procedures).

Firstly, the Changes involve the implementation of process improvements to the Procedures which have been recommended by market proponents and AEMO (Improvement Procedures). The implementation of these Changes will be staggered in order to reflect the MSATS Standing Data Review (MSDR) Implementation Date Minor Amendment Final Report (MSDR Minor Amendment), which amends the implementation date of the MSDR from 1 May 2022 to 7 November 2022, while retaining the same implementation date for other changes. More information is available at <https://aemo.com.au/consultations/current-and-closed-consultations/msats-standing-data-review-implementation-date>.

Table 1 Summary of Change Proposals to Implement Process Improvements

Procedure	Type of Change	Change Proposal	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
		MSDR changes	7 November 2022
MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator and Sample NMIs (WIGS Procedure)	Amendment	WIGS Clarification	1 May 2022
		MSDR changes	7 November 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	1 May 2022
		CIP_048 Reference to AS60044	1 May 2022
		MSDR changes	7 November 2022

Procedure	Type of Change	Change Proposal	Effective Date
Standing Data for MSATS (Standing Data document)	Amendment	Consolidation	1 May 2022
		CIP_049 Controlled Load Enumerations	7 November 2022
		CIP_053 GPS Coordinates Minimum Requirements Connection configuration clarification	

Secondly, these Proposals involve the consolidation of previously consulted on 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 Final Report.

Further, the proposal is to consolidate Version 4.94 of the CATS Procedure to Version 5.3 and Version 4.93 of the WIGS Procedure to Version 5.3, as follows.

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

Procedure Name	Version being built on	Versions being consolidated	Version(s) published with consultation
CATS Procedure	4.921	4.93 4.95 5.0	5.1
		4.94	5.3
WIGS Procedure	4.921	4.94 4.95 5.0	5.1
		4.93	5.3
Standing Data for MSATS document	4.52	4.6 5.0 5.1	5.11 5.3
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

Retail Electricity Market Procedures - Glossary and Framework (Glossary and Framework)	3.31	3.4 3.41	3.5 3.7
NEM RoLR Processes Part A and B (RoLR Processes)	2.0	2.1 2.2	2.3
MSATS Procedure: MDM Procedures (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 implementation dates for the Changes are 1 May 2022 and 7 November 2022 for non-MSDR and MSDR-related changes respectively.

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

- Delayed implementation of the MSDR-related Changes due to resourcing constraints at AEMO. AEMO has concluded the MSDR Minor Amendment process to formally delay the MSDR's implementation, as detailed in [section 2.4](#), as well as 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 4.94 and 5.1 of the CATS Procedure 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 received 6 submissions on the Draft Report from Retailers, LNSPs, MPs, MDPs and intending participants, from:

- AGL
- Alinta Energy
- Ausnet Services
- Energy Queensland, on behalf of Energex, Ergon and Yurika
- Origin Energy
- Red Energy and Lumo Energy.

These submissions did not raise any material issues. Instead, several suggestions were made to clarify existing Change Proposals and several participants noted that compliance and implementation remained key challenges for implementation.

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

The Consultation was conducted under NER 7.16.7, in accordance with the NER consultation requirements in NER 8.9.



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1. STAKEHOLDER CONSULTATION PROCESS

AEMO has concluded the Consultation on the Changes in accordance with NER 8.9. The Consultation followed extensive outworking of each Proposal by the ERCF and AEMO.

AEMO's timeline for the Consultation is as follows.

Table 3 Summary of dates

Deliverable	Indicative date
Initial Notice	Friday, 8 October 2021
Submissions Close	Monday, 15 November 2021
Draft Determination	Monday, 6 December 2021
Submissions Close	Tuesday, 21 December 2021
Final Determination	Monday, 31 January 2022
Effective Dates of Changes	Sunday, 1 May 2022 Monday, 7 November 2022

A glossary of terms used in this Final 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 of 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 Second stage consultation

AEMO issued the Notice of Second Stage Consultation, Draft Report and draft amended Procedures on Monday 6 December 2021. This information is available at <https://aemo.com.au/consultations/current-and-closed-consultations/b2m-october-2021>. The Draft Report included a summary of the Changes, as well as details of AEMO's stakeholder engagement, including through the ERCF.

In response, AEMO received 6 submissions. AEMO has published copies of all written submissions (excluding any confidential information) on AEMO's website [here](#).

2.5 MSDR Implementation Date

AEMO's final determination reflects the outcome of the MSDR Minor Amendment by staggering the implementation of the Changes into the following two tranches.

Effective date	Changes	Consequential 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 field Shared Isolation Point Flag will be effective but all other MSDR changes will be 'silent' in AEMO's systems.

Effective date	Changes	Consequential 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, the MSDR Minor Amendment Process has confirmed the delayed implementation of MSDR, therefore the Standing Data document in this Consultation is being published in accordance with the MSDR 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 field, then they must upgrade to the new schema (r42).

The table below provides further details as to which CIPs are to be included in these two tranches:

- 'Minor Amendment' indicates that the changes have already been consulted on and were only to be considered for the purpose of consolidating them into a new version of the Consolidation Procedure.
- '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 November 2022	Minor Amendment
CIP_016	Reinstatement of MC Objection of "BadParty" for Victorian SMALL NMIs	CATS Procedure	Yes	7 November 2022	Minor Amendment
CIP_019	Verification of Metering Data for Meters with Remote Capabilities	Metrology Procedure Part A	No	1 May 2022	Minor Amendment
CIP_020	Clarification of Use of Terms Validation and Verification	SLP MP Metrology Procedure: Part B	No	1 May 2022	Minor Amendment
CIP_021	Removal of End User Details from the Inventory Table	Metrology Procedure Part B	No	1 May 2022	Minor Amendment



Change ID	Subject	Document changing	AEMO MSATS System Change	Effective Date	Minor Amendment or Consultation
CIP_025	Removal of 'N' Metering Data Quality Flag	Metrology Procedure Part B; Metering Data File Format Specification NEM12 & NEM 13 (MDFF Specification)	No	1 May 2022	Minor Amendment
CIP_027	Average Daily Load at Datastream	Standing Data for MSATS document; Glossary and Framework	No	1 May 2022	Minor Amendment
CIP_028	Remove Failed Retailer MSATS User Access	RoLR Processes	No	1 May 2022	Minor Amendment
CIP_029	Amendment or Reversion of Definition of Register ID Field in MSATS	CATS Procedure; 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 November 2022	Minor Amendment
CIP_M001	Process to detect energy data	Service Level Procedure: Metering Data Provider Services (SLP MDP Services)	No	1 May 2022	Minor Amendment
CIP_030	Configuration of data channels and meter data obligations	SLP MDP Services	No	1 May 2022	Minor Amendment
CIP_023	Process when remote collection of metering data fails	Metrology Procedure Part A; SLP MDP Services	No	1 May 2022	Minor Amendment
CIP_045	B2B Accreditation Procedure Clarification	B2B E-Hub Participant Accreditation and Revocation Process (B2B Process)	No	1 May 2022	Consultation
CIP_050	NREG and GENERATR NMI Classifications	CATS Procedure	No	1 May 2022	Consultation
N/A	WIGS Clarification	WIGS Procedure	No	1 May 2022	Consultation
CIP_042	Reason Codes	MDFF Specification	No	1 May 2022	Consultation
CIP_046 CIP_048	Clarification of Metrology Part A Clause 12.5. Reference to AS60044	Metrology Procedure Part A	No	1 May 2022	Consultation

Change ID	Subject	Document changing	AEMO MSATS System Change	Effective Date	Minor Amendment or Consultation
CIP_049	Controlled Load Enumerations	Standing Data for MSATS document	Yes	7 November 2022	Consultation
CIP_053	GPS Coordinates Minimum Requirements. Connection configuration clarification	Standing Data for MSATS document	Yes	7 November 2022	Consultation

3. CHANGE PROPOSALS

AEMO has provided guidance to clarify the implementation of each of these Changes. This guidance 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 several extreme events, including bushfires, floods, IT system issues and the COVID 19 pandemic. These events have impacted meter readings for many 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. Instead, they have issued substituted reads for these premises. However:

- the reason codes are variably and inconsistently used by the various MDPs (contestable and network) and even by a particular MDP itself, including where the reason codes can be related to the same event;
- the reason codes that have been used are not necessarily reflective of the issue at hand; and
- 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 proposed the Changes to the 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 are expected to:

- 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.

The Changes are as follows.

A sentence will be added to the beginning of Appendix E: *'These reason codes are designed to encourage consistent application 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 <i>metering installation</i> 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
MDFF Specification	Appendix E Reason Codes	Reason codes amended and removed as described above
MDFF Specification	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 in the Issues Paper:

- AGL, Ergon, Evoenergy and Origin were supportive;

- South Australia Power Networks (SAPN) proposed retaining reason code 4 (dangerous dog);
- Origin was 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.

Most respondents indicated their in-principal 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 will 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.

AEMO's conclusion in the Draft Report was 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 Report.
- In response to the Draft Report, AGL, Ausnet and Energy Queensland were supportive of the Change Proposals in the Draft Report.

3.1.2 AEMO's assessment

Most respondents indicated their in-principal support for the Proposal. Several other respondents' suggestions were incorporated into the Procedures.

3.1.3 AEMO's conclusion

AEMO did not receive any objections to the Change. AEMO's conclusion is to make the Change as summarised in this Final Report and as described in the Procedures.

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 for participants who currently use B2B via FTP. 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 the Proposal contained within the Issues Paper:

- 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.

AEMO notes that most respondents supported the Proposal.

DRSPs are Registered Participants.

The definition of Third Party B2B Participant in NER Chapter 10 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 assesses DRSPs to be Third Party B2B Participants.

Under the NER, Third-Party B2B Participants are allowed to participate in B2B transactions. Accordingly, the statement referred to by AGL must remain as-is.

All Third Party B2B Participants will need to seek agreements with other participants to communicate via B2B. In response to the Proposal contained in the Draft Report:

- AGL noted that the Proposal in respect of the B2B Hub accreditation process and considers it should be suitable for Third Party B2B Participants who are not registered participants. AGL considers that registered participants should be included as potential or secondary B2B participants. Origin Energy noted that 'DNSP' should be an initiator for the re-energisation Service Order in Appendix B, Table 1, Page 20.
- Ausnet and Energy Queensland did not object to the Proposal.

3.2.2 AEMO's assessment

AEMO's assessment is that:

- Further changes to the consideration or treatment of registered participants are outside of the scope of the Consultation and can be progressed within the ERCF if required.
- Origin Energy's assessment is correct and the clause has been updated accordingly.

3.2.3 AEMO's conclusion

AEMO's conclusion is to make the Change as summarised in this Final Report and as described in the Procedures.

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 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 the Proposal contained within the Issues Paper:

- 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.

In response to the Draft Report, AGL, Ausnet and Energy Queensland did not object to the Change Proposal.

3.3.2 AEMO's assessment

AEMO notes that most 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 in accordance with respondent comments.
- Update clauses 12.2, 12.4 and 12.5 in line with respondent comments.
- Otherwise proceed to implement the Proposal.

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 Issues Paper, AGL, Evoenergy and Origin were supportive.

In response to the Draft Report, AGL, Ausnet and Energy Queensland 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 to implement the Change.

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 for MSATS document	Table 17	Table updated as described above

In response to the Proposal contained within the Issues Paper contained within the Issues Paper:

- 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 for MSATS 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.

In response to the Draft Report:

- AGL, Ausnet and Energy Queensland were supportive;
- Energy Queensland sought clarity as to whether there are plans to update the NOMW to align with the market; and



- Origin Energy requested the Controlled Load definition be clarified to reflect that management of controlled loads do not always have to be done by the network.

3.5.2 AEMO's assessment

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

Further details regarding implementation and compliance are to be outworked by the Readiness Working Group (RWG) and the MSDR Focus Group. Any changes to the NOMW are outside of the scope of this Consultation and should be directed to the Information Exchange Committee (IEC).

3.5.3 AEMO's conclusion

AEMO's conclusion is to update the Standing Data for MSATS 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 proposed 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: <ul style="list-style-type: none"> • the embedded generating unit is classified by a Market Small Generation Aggregator as a market generating unit; or 	All

	<ul style="list-style-type: none"> 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. 	
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The Proposal is detailed as follows.

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

In response to the Proposal contained within the Issues Paper:

- 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 for MSATS 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 the intent of the CATS Procedure.

In response to the Draft Report:

- Ausnet and Energy Queensland were supportive; and
- AGL sought clarity on the obligations made to ensure market participants are properly notified of shared fuse arrangements.

3.6.2 AEMO's assessment

AEMO notes that most 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 and will need to be progressed through the ERCF if required.

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 MS DR, GPS Coordinates for metering installations were included as data which should be captured. In the MS DR 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 proposed 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 proposed 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 document	Table 3	Minimum requirement for GPS Coordinates defined as being between 5 and 7 decimal places

In response to the Proposal contained within the Issues Paper:

- 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 NMLs; and
- Endeavour noted that latitude values are likely to be negative.

In response to the Draft Report:

- AGL and Ausnet were supportive.
- Energy Queensland noted that the minimum decimal place requirement does not appear to be reflected in Table 4 - CATS Meter Register – Browser Cross Reference in the Standing Data for MSATS document. Energy Queensland also sought clarification if the aseXML will not force a 7 decimal and i.e. aseXML will accept 5 decimal, 6 decimal and 7 decimal, consistent with B2B.
- Red Energy and Lumo Energy proposed keeping the effective date as 1 May 2022, but making the provision of the additional information (Controlled load enumeration, GPS coordinates, Connection configuration) REQUIRED, and for these fields to become MANDATORY as of 7 Nov 2022.

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.
- Red Energy and Lumo Energy's proposal is not feasible as the MS DR Minor Amendment has determined the effective date of the fields will be 7 November 2022, with population to be outworked by the MS DR Focus Group.

3.7.3 AEMO's conclusion

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

3.8 Connection Configuration Clarification

3.8.1 Issue Summary and Submissions

Context

AEMO's MS DR 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.

The Proposal contained within the Issues Paper was not endorsed by most 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
Standing Data for MSATS document	Table 12	Statements added as set out above

In response to the Proposal contained within the Issues Paper:

- 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 NMI level, or a mix of the two; and
- Endeavour suggested adding a sentence stating, 'Information may be subject to change during the NMI lifecycle'.

AEMO's assessment of this feedback 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 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.

In response to the Draft Report:

- AGL, Ausnet and Energy Queensland were supportive.
- Origin Energy noted that the Draft Report refers to 'document' rather than the Standing Data document. This has been rectified.

3.8.2 AEMO's assessment

AEMO's assessment is that the Changes to the Standing Data for MSATS document would improve clarity. AEMO notes that no party objected to this clarification.

3.8.3 AEMO's conclusion

AEMO's conclusion is to update the Standing Data for MSATS 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 proposed to update the WIGS Procedure to align it to the NER, as follows.

Document	Section	Description
WIGS Procedure	8.2.1	Added references to AEMO initiating roles
	8.2.4	
WIGS Procedure	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 contained within the Issues Paper:

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

In response to the Draft Report:

- AGL was supportive.
- Origin noted that the role of 'ENLR' has been updated throughout the document, however this might be inconsistent where CR is not applicable for embedded networks e.g. Table 5-H; 5-J; 6-D; 6-F.

3.9.2 AEMO's assessment

AEMO notes that most respondents 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. AEMO's assessment is that the above CRs are applicable to ENLRs.

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 Consolidation Procedures changes have already been the subject of formal consultations. Accordingly, AEMO is not requesting comment on these 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 Final Report.

A summary of the Consolidation Procedures 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 and 5.3.

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	7 November 2022	Updated to include changes for the Metering ICF Package 2020 consultation, the changes are for the following Information Change Requests (ICFs): <ul style="list-style-type: none"> • 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	Global Settlement-related changes

Section	Description
2.6 2.9 2.10 2.11 3 4 7	
2.2 2.3 2.5 2.6	Added Shared Fuse obligations
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 contained within the Issues Paper:

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

In response to the Draft Report:

- AGL was supportive.
- Origin Energy sought clarity on the manner in which unstructured addresses would be removed from MSATS.

4.1.1 AEMO's assessment

AEMO notes that most 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. Following the confirmation of the MSDR Minor Amendment,



references to unstructured addresses have been removed from the CATS Procedure, WIGS Procedure and Standing Data for MSATS document for 7 November 2022.

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 and 5.3.

Version	Effective Date	Summary of Changes
4.921	24 October 2021	v4.913 and v4.92 Consolidated
4.93	7 November 2022	MSDR Phase 1 – New and amended fields
4.94	1 May 2022	Version control to align to the CATS Procedure
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	Added and updated MSDR obligations and change request updates regarding LNSP and MPB requirements and TNI2 references
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	GS-related changes such as ENLRs and NMI Classification Codes and document restructuring
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	

Section	Description
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	
8.6.6	
9.2.1	
9.2.2	
10.1.1	
10.1.5	

- In response to the Proposal contained within the Issues Paper, Origin noted the Changes.
- In response to the Draft Report, AGL were supportive.

4.2.1 AEMO's assessment

AEMO assesses that the Proposal should proceed. 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): <ul style="list-style-type: none"> • 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 contained within the Issues Paper, AGL noted that V7.32 of Metrology Procedure Part A has been missed in the consolidation.

In response to the Draft Report, AGL noted that discussions had occurred within the B2B Working Group on the provision of shared fuse information to the DNSP and suggested that this clause be extended to include the MPB (current or pending), to allow for parties contracted to the MC to undertake this information provision.

4.3.1 AEMO's assessment

AEMO has included v7.32 of Metrology Procedure Part A into the consolidation. However, AEMO's assessment is that extending the shared fuse obligations to MPBs is outside of the scope of this consultation. AEMO notes that most respondents did not object to the Proposal.

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 v7.021-7.21 to Metrology Procedure Part B. v7.3

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 ICFs: <ul style="list-style-type: none"> 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): <ul style="list-style-type: none"> ICF_021 Removal of End User Details from the Inventory table
7.21	1 May 2022	Updated to reflect: <ul style="list-style-type: none"> 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
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The Changes are as follows:

Section	Description
2.2	GS-related updates
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	
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	Scaling Factors & Cross Boundary inflow clarifications
11.4	
12.4	
13.1.2	
13.2.1	
13.2.2	
9	Clarification of 'Verification' and 'Validation'

In response to the Proposal contained within the Issues Paper:

- AGL and Ergon were supportive;
- Origin noted the Changes; and
- Evoenergy suggested a range of grammatical corrections.



In response to the Draft Report, AGL was supportive.

4.4.1 AEMO's assessment

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

4.4.2 AEMO's conclusion

AEMO's conclusion is to update the grammar in the Procedure 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	<ul style="list-style-type: none"> 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	5MLP 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 contained within the Issues Paper:

- 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.

- In response to the Draft Report, AGL was supportive.

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): <ul style="list-style-type: none"> • 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 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.
- In response to the Draft Report, AGL was supportive of the Changes.

4.6.1 AEMO's assessment and conclusion

AEMO's conclusion is to proceed with the Changes as proposed in the 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	<ul style="list-style-type: none"> 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 contained within the Issues Paper:

- Ergon supported the Change.
- Origin noted the Change.
- AGL and Endeavour provided suggestions to clarify the definition of Controlled Load.
- In response to the Draft Report, AGL was supportive.

4.7.1 AEMO's assessment and conclusion

Accordingly, AEMO's assessment and conclusion is to update the description of Controlled Load and otherwise proceed to implement the Change.

4.8 Standing Data for MSATS document

Proposal

The Proposal is to consolidate v4.52-5.1 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



Version	Effective Date	Summary of Changes
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	GS-related changes
3.2	
4.1	
4.2	
4.3	
5.1	
5.2	
5.3	
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	MSDR-related changes
Table 6	
Table 8	
Section 11	
Table 26	
Table 30	
Table 32	
Table 34	
Table 36	
Table 38	
Table 40	



Section	Description
Table 42	
Table 44	
Table 45	
Table 48	
Table 51	
Table 54	

In response to the Proposal contained within the Issues Paper:

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

In response to the Draft Report:

- AGL was supportive.
- AGL proposed reformatting the 'Affected NMI's' section to improve clarity.
- Ausnet suggested rephrasing the RegisterID Suffix description in section 9.1.

4.8.1 AEMO's assessment

AEMO notes a majority of comments supported or noted the Changes. AEMO's assessment is that it is suitable to update the RegisterID definition to align with the Standing Data for MSATS document v4.51 which was published with the Metering ICF Package Consultation, but that reformatting the 'Affected NMI's' section would not substantially improve clarity for market participants.

4.8.2 AEMO's conclusion

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

5. SUMMARY OF PROCEDURE CHANGES AND CONSOLIDATIONS

To help stakeholders and other interested parties understand this Final Report, AEMO has published 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 consulted 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 for MSATS document

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

APPENDIX A. SUMMARY OF SUBMISSIONS AND AEMO RESPONSES

Table 4 Questions on proposed changes

No.	Question	Consulted person	Participant comment	AEMO response
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.	Alinta Energy	Alinta Energy Supports the proposal.	AEMO notes the respondent's support for the proposal.
2.	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.	Ausnet	AusNet supports the proposals contained within this Issue Paper.	AEMO notes the respondent's support for the proposal.
3.	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.	Energy Queensland	Energy Queensland provides no comment.	
4.	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.	Origin Energy	Broadly supportive of the proposed process improvements to the Market Procedures. Detailed feedback provided in relevant sections of this document.	AEMO notes the respondent's support for the proposal.
5.	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.	Red Energy and Lumo Energy	Red Energy and Lumo Energy (Red and Lumo) do not object to the proposals contained in the Issues Paper.	AEMO notes the respondent's lack of objection for the proposal.
6.	Are there better options to accommodate the change proposals that better achieve the required objectives?	Alinta Energy	Not specifically.	AEMO notes the respondent's comment.



No.	Question	Consulted person	Participant comment	AEMO response
	What are the pros and cons of these options? How would they be implemented?			
7.	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?	Energy Queensland	Energy Queensland provides no comment.	
8.	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?	Origin Energy	No comments	
9.	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?	Red Energy and Lumo Energy	<p>With regards to changing the effective date of the following change information papers to 7 Nov 2022, Red and Lumo propose keeping the effective date as 1 May 2022 but making the provision of the additional information (Controlled load enumeration, GPS coordinates, Connection configuration) REQUIRED, and for these fields to become MANDATORY as of 7 Nov 2022. As AEMO is deploying the schema for these fields on 1 May 2022 and these will not be visible to participants, however, by allowing for the information to be provided and stored in AEMOs system (even if not visible) will assist to minimise market activities and transactions which will need to take place on 7 Nov 2022.</p> <p>Change information papers in question are:</p> <ul style="list-style-type: none"> - Controlled Load Enumerations (CIP_049) - Connection configuration clarification (ICF_037) - GPS Coordinates Minimum Requirements (CIP_053) 	AEMO notes the respondent's comment. The provision of additional information ahead of time was not proposed in the MSDR Minor Amendment and is not feasible due to resource constraints. These issues will be outworked by the MSDR Focus Group.
10.	What are the main challenges in adopting these proposed changes? How should these challenges be addressed?	Alinta Energy	Some challenges will be around what is being proposed regarding the compliance holidays specifically around the 36 months for GPS. If the AEMC POC findings determine that smart meter deployment activity is accelerated and mandatory obligations are considered on retailers this field will become very important in order to effectively identify the meter location for the	AEMO notes the respondent's comment. These issues will be outworked by MSDR Focus Group.



No.	Question	Consulted person	Participant comment	AEMO response
			purposes of the exchange and waiting 3 years for it to be updated is somewhat superfluous.	
11.	What are the main challenges in adopting these proposed changes? How should these challenges be addressed?	Ausnet	<p>Echoing the sentiments captured during the ERCF, organisations have change fatigue. We have reviewed the same documents over and over again over the past two years. Consolidations of documents, especially procedures, should be performed outside of a regular change cycle as the impact of not picking up any errors within a consolidation, especially one of this size, can cause significant issues for an organisation and therefore requires additional time outside of reviewing new changes.</p> <p>Furthermore, AusNet support the proposed two per year change cycle as proposed in the ERCF.</p>	AEMO notes the respondent's comment. AEMO's proposed change cycle should help address this issue.
12.	What are the main challenges in adopting these proposed changes? How should these challenges be addressed?	Energy Queensland	Energy Queensland provides no comment.	
13.	What are the main challenges in adopting these proposed changes? How should these challenges be addressed?	Origin Energy	N/A	
14.	Do you have any further questions or comments in relation to the proposals described above?	Alinta Energy	N/A	
15.	Do you have any further questions or comments in relation to the proposals described above?	Energy Queensland	Energy Queensland provides no comment.	
16.	Do you have any further questions or comments in relation to the proposals described above?	Origin Energy	Detailed feedback provided in relevant sections of this document.	AEMO notes the respondent's comment.
17.	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	Alinta Energy	Not specifically.	AEMO notes the respondent's comment.



No.	Question	Consulted person	Participant comment	AEMO response
	feedback and it may then form part of another consultation or the annual prioritisation process.			
18.	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.	Energy Queensland	Energy Queensland provides no comment.	
19.	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.	Origin Energy	As noted in the 'MSDR implementation date minor amendments' consultation, due to the close proximity of the effective dates of these Procedures (particularly the Standing Data for MSATS document that covers CIP_049 Controlled Load Enumerations and CIP_053 GPS Coordinates Minimum Requirements. Connection configuration clarification) with the 'Consumer Data Right' go-live, it is important to understand whether AEMO has performed adequate dependency management exercise to ensure the risks associated with industry operations (not limited to AEMO) are well understood and managed beforehand. Additionally, Origin suggests a clear and concise summary of 'market participants impacts' to be provided by AEMO to provide clarity on overlapping versions of various Procedures. That is, what does each release mean for market participants, e.g. 1st May 2022 (participants can upgrade to r42 schema to accomodate MCPI changes, however no AEMO impact); 7th November 2022 (no schema upgrade for market participants, however majority of AEMO-impacts due to MSDR changes). Also, for May 2022 schema upgrade,	AEMO notes the respondent's comment. These issues will be outworked by the RWG and MSDR Focus Group.



No.	Question	Consulted person	Participant comment	AEMO response
			Origin understands that the industry/market cut-over support/plan will be facilitated by AEMO as a standard practice.	

Table 5 Feedback on proposed amendments

No.	Document	Consulted person	Participant comment	AEMO response
1.	B2B E-Hub Participant Accreditation and Revocation Process (CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)	AGL	<p>AGL notes the proposed changes for the B2B Hub accreditation process and considers it should be suitable for third party B2B users, who are not registered participants.</p> <p>A lot of the information sought for B2B registration within the Appendices would already exist within the AEMO registration systems and be superfluous for an existing registered participant.</p> <p>AGL considers that registered participants should be included as potential or secondary B2B participants. AGL notes the AEMO response regarding DRSPs not being specifically identified as a B2B user within the NER, which in turn requires them to seek agreement for any B2B transactions, is likely to place unnecessary competitive barriers on the operation of that registered participant role.</p> <p>AGL suggests that this matter be made an ERCF topic with the view to survey both the retail and wholesale working groups to determine an industry position. If industry agrees, a rule change can then be raised to treat other registered participants as secondary B2B users who can certify and use B2B transactions without participant agreement. This will remove unnecessary industry barriers to registered participants.</p> <p>AGL would not expect them to be represented on the IEC unless their usage grew substantially.</p>	AEMO notes the respondent's comment. Further changes to the B2B E-Hub Accreditation Process are outside of the scope of this consultation. AEMO suggests AGL provides an ICF to progress this issue within the ERCF.
2.	B2B E-Hub Participant Accreditation and Revocation Process (CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)	Alinta Energy	N/A	
3.	B2B E-Hub Participant Accreditation and Revocation Process	Ausnet	AusNet supports CIP_045	AEMO notes the respondent's support for this change.



No.	Document	Consulted person	Participant comment	AEMO response
	(CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)			
4.	B2B E-Hub Participant Accreditation and Revocation Process (CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)	Energy Queensland	Energy Queensland supports the effective date of CIP_045 being brought forward to 1 May 2022.	AEMO notes the respondent's support for this change.
5.	B2B E-Hub Participant Accreditation and Revocation Process (CIP_045 B2B E-Hub Participant Accreditation Procedure Clarification)	Origin Energy	Feedback provided in Section 6 below.	AEMO notes the respondent's comment.
6.	Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)	AGL	AGL Notes AEMO's comments and has raised a Change Request to commence a review of the NMI classifications.	AEMO notes the respondent's comment and will give the Issue Change Form consideration outside of this consultation.
7.	Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)	Alinta Energy	N/A	
8.	Consumer Administration and	Ausnet	AusNet supports CIP_050	AEMO notes the respondent's support for this change.



No.	Document	Consulted person	Participant comment	AEMO response
	Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)			
9.	Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)	Energy Queensland	Energy Queensland supports the changes and all identified impacts are being address as part of a current project within our business.	AEMO notes the respondent's support for this change.
10.	Consumer Administration and Transfer Solution (CATS) Procedure Principles and Obligation (MSATS Procedures: CATS) (CIP_050 NREG and GENERATR NMI Classifications)	Origin Energy	Feedback provided in Section 9 and 10 below.	AEMO notes the respondent's comment.
11.	Meter Data File Format Specification (MDFF) NEM12 & NEM13 (CIP_042 Reason Code)	AGL	AGL supports this proposed change.	AEMO notes the respondent's support for this change.
12.	Meter Data File Format Specification (MDFF) NEM12 & NEM13 (CIP_042 Reason Code)	Alinta Energy	N/A	
13.	Meter Data File Format Specification (MDFF)	Ausnet	AusNet supports CIP_042	AEMO notes the respondent's support for this change.



No.	Document	Consulted person	Participant comment	AEMO response
	NEM12 & NEM13 (CIP_042 Reason Code)			
14.	Meter Data File Format Specification (MDFF) NEM12 & NEM13 (CIP_042 Reason Code)	Energy Queensland	Energy Queensland supports the effective date of CIP_042 being brought forward to 1 May 2022.	AEMO notes the respondent's support for this change.
15.	Meter Data File Format Specification (MDFF) NEM12 & NEM13 (CIP_042 Reason Code)	Origin Energy	No comments	
16.	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)	AGL	AGL supports this proposed change.	AEMO notes the respondent's support for this change.
17.	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)	Alinta Energy	N/A	
18.	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)	Ausnet	AusNet supports CIP_048	AEMO notes the respondent's support for this change.
19.	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)	Energy Queensland	Energy Queensland supports the effective date of CIP_046 being brought forward to 1 May 2022.	AEMO notes the respondent's support for this change.
20.	Metrology Part A (CIP_046 Clarification of Clause 12.5, CIP_048 Reference to AS60044)	Origin Energy	No comments	
21.	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053)	AGL	AGL supports these proposed changes.	AEMO notes the respondent's support for this change.



No.	Document	Consulted person	Participant comment	AEMO response
	GPS Coordinates Minimum Standard)			
22.	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053 GPS Coordinates Minimum Standard)	Alinta Energy	N/A	
23.	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053 GPS Coordinates Minimum Standard)	Ausnet	AusNet supports CIP_049	AEMO notes the respondent's support for this change.
24.	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053 GPS Coordinates Minimum Standard)	Energy Queensland	<p>Energy Queensland supports the delay to 7 November 2022, although suggest the B2B schema should be addressed to support the new Controlled Load field enumerations, as stated in the AEMO MSDR Final Report – (p32) Excerpt related to Controlled Load is – ‘Field to have a common enumerated list for both B2B and B2M, as detailed below, Table 5.’</p> <p>In relation to AEMO's conclusion (section 3.7.3), the minimum decimal place requirement does not appear to be reflected in Table 4 - CATS Meter Register – Browser Cross Reference within the “Standing data for MSATS” document. Energy Queensland seeks clarification if the aseXML will not force a 7 decimal (s2.7) and (s3.7) i.e. aseXML will accept 5 decimal, 6 decimal and 7 decimal.</p> <p>Energy Queensland notes the 5-7 decimal format is correctly noted in Table 3 - CATS Meter Register – Field Definitions.</p> <p>And further, we agree that the minimum latitude should be a negative value “-99.9999999.”</p>	<p>AEMO notes the respondent's support for this change. B2B changes are outside of the scope of this consultation. aseXML will not restrict the user to provide all decimal digits specified as fractionDigits. The totalDigits facet indicates the maximum total number of digits, and fractionDigits indicates the maximum number of decimal places. When used together, fractionDigits can never have a value greater than the number of totalDigits. Schema definitions for GPSCoordinates does not restrict the user to provide all 7 decimal digits. The Standing Data document has been updated according to this comment.</p>



No.	Document	Consulted person	Participant comment	AEMO response						
25.	Standing Data for MSATS (Standing Data document) (CIP_049 Controlled Load Enumerations, CIP_053 GPS Coordinates Minimum Standard)	Origin Energy	<p>In the Draft Report, Sec 3.8 – Connection Configuration, Sec 3.8.1, makes reference to ‘document’ – should be ‘Standing Data for MSATS’</p> <table><tr><th>Document</th><th>Section</th><th>Description</th></tr><tr><td>document</td><td>Table 12</td><td>Statements added as set out above</td></tr></table>	Document	Section	Description	document	Table 12	Statements added as set out above	AEMO notes the respondent’s comment. The clause has been updated accordingly and reflected in the Final Report.
Document	Section	Description								
document	Table 12	Statements added as set out above								

Table 6 Feedback on consolidations

No.	Document	Clause	Consulted person	Participant comment	AEMO response
1.	CATS		AGL	AGL supports the consolidations, although notes the comments provided in the minor consultation – see bottom of this response.	AEMO notes the respondent’s comment.
2.	CATS		Energy Queensland	Energy Queensland provides no comment.	
3.	CATS		Origin Energy	No comments	
4.	WIGS		AGL	AGL supports the consolidation.	AEMO notes the respondent’s support for this change.
5.	WIGS		Energy Queensland	Energy Queensland provides no comment.	
6.	WIGS		Origin Energy	No comments	
7.	Metrology Part A		AGL	AGL Notes the consolidations. AGL also notes that there is no v7.2 release. AGL suggests that the version table be updated for future reference to reflect that no v7.2 was developed or released.	AEMO notes the respondent’s comment. The version history table has been updated accordingly to clarify this.
8.	Metrology Part A		Energy Queensland	Energy Queensland provides no comment.	
9.	Metrology Part A		Origin Energy	No comments	
10.	Metrology Part B		AGL	AGL notes the inclusion of v7.2 amendments and supports the consolidations.	AEMO notes the respondent’s support for this change.
11.	Metrology Part B		Energy Queensland	Energy Queensland provides no comment.	
12.	Metrology Part B		Origin Energy	No comments	



No.	Document	Clause	Consulted person	Participant comment	AEMO response
13.	MSATS Procedures: MDM Procedures		AGL	AGL supports the consolidation.	AEMO notes the respondent's support for this change.
14.	MSATS Procedures: MDM Procedures		Energy Queensland	Energy Queensland provides no comment.	
15.	MSATS Procedures: MDM Procedures		Origin Energy	No comments	
16.	NEM RoLR Processes Part A and Part B		AGL	AGL supports the consolidation.	AEMO notes the respondent's support for this change.
17.	NEM RoLR Processes Part A and Part B		Energy Queensland	Energy Queensland provides no comment.	
18.	NEM RoLR Processes Part A and Part B		Origin Energy	No comments	
19.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		AGL	AGL supports the consolidation.	AEMO notes the respondent's support for this change.
20.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		Energy Queensland	Energy Queensland provides no comment.	
21.	Retail Electricity Market Procedures – Glossary and Framework (Glossary and Framework)		Origin Energy	No comments	
22.	Standing Data document		AGL	AGL supports the consolidation.	AEMO notes the respondent's support for this change.
23.	Standing Data document	9.1	Ausnet	Please see detailed feedback in relevant document section	AEMO notes the respondent's comment.
24.	Standing Data document		Energy Queensland	Energy Queensland provides no comment.	
25.	Standing Data document		Origin Energy	No comments	

Table 7 MDFF NEM12 & NEM13

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL	Various		AGL supports the initial changes and also supports the proposed additions following the initial round of consultation.	AEMO notes the respondent's support for this change.

No.	Consulted person	Section	Description	Participant comments	AEMO response
2.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy			No comments	

Table 8 B2B E-Hub Participant Accreditation and Revocation Process

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			Note comments above.	AEMO notes the respondent's comment.
2.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy	Appendix B, Table 1, Page 20	For Re-En, it shows Initiator or DM, or MP or MC	Shouldn't this be DNSP?	AEMO notes the respondent's comment. The clause has been updated accordingly.

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

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			Note comments above	AEMO notes the respondent's comment.
2.	AGL	14(a), 14(b)	The final Rule made by the AEMC requires DNSPs to record and MCs and FRMPs to notify DNSPs of a Shred Fuse arrangement when they become aware of that arrangement. The drafting in the Metrology Procedure does not specify that, but rather specifies that the DNSPs must record those arrangements and that MCs and FRMPs must notify the DNSP of any new or existing Shared Fuse arrangements. Removing the words 'becoming aware' changes the obligation from one of advise when identified to an obligation to actively review each connections, which is substantially different to the Rule obligation.	Insert the phrase 'when they become aware' into clauses 14(a) and 14(b).	AEMO notes the respondent's comment. Inclusion of "becomes aware" in these clauses is unnecessary as these clauses require parties to identify, record and maintain (14(a)) and provide notification (14(b)) of Shared Fuse arrangements, in line with the NER requirements. This material is being consolidated rather than consulted on and is out of scope for this consultation.
3.	AGL	14(c)	Noting the discussions held within the B2B Working group on the provision of shared fuse information to the DNSP, it is suggested that this clause be extended to include the MPB (current or pending) to	Suggested addition:MC or the FRMP and may notify the DNSP of any...	AEMO notes the respondent's comment. The discussions held by the B2B Working Group are outside the scope of this consultation. If AGL wishes to progress this issue, AEMO suggests they submit an ICF to the ERCF on the topic.



No.	Consulted person	Section	Description	Participant comments	AEMO response
			allow for parties contracted to the MC to undertake this information provision.		
4.	Energy Queensland		Energy Queensland provides no comment.	Energy Queensland provides no comment.	
5.	Origin Energy			No comments	

Table 10 Standing Data document

No	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL		Affected NMIs	<p>Noting that this describes all connection points, AGL suggests that the information could be broken into like / similar groups for increased clarity, such as:</p> <ul style="list-style-type: none"> Transmission Network connecting to: <ul style="list-style-type: none"> Other transmission networks; Distribution Networks (ie Bulk Supply Point); Customer supply point (1e wholesale connection point); Distribution Network connecting to: <ul style="list-style-type: none"> Other Distribution Networks (excluding embedded networks); All connection points associated with a generating unit.... All connection points with non-registered... All market and Type 7 loads; All non-contestable unmetered loads; Sample meters as required All child connection points. <p>..... etc</p>	AEMO notes the respondent's comment. No other participants have raised a concern regarding the clarity of this section. As such, it will remain as-is.
2.	Energy Queensland	4.1 Table 3	GPS Co-Ordinate validation	Regarding the GPS co-ordinates (CIP_053), Energy Queensland notes will there be a validation that will not allow a lower number of decimal to override a higher number of decimal (eg. 5 or 6 decimals vs 7 decimals) but always allow higher decimals to override lower or the same number of decimals (eg. 7	AEMO notes the respondent's comment. This will be



No.	Consulted person	Section	Description	Participant comments	AEMO response														
				decimals vs 5 or 6 decimals). We suggest the lower the granularity (that is higher number of decimals) should always be preferred.	considered by the MS DR Focus Group.														
3.	Origin Energy	Table 30	<p>Origin noted that in the Draft Report, Sec 3.5 – Controlled Load, Sec 3.5.1 has a reference to Standing Data document, Table 17 – this is incorrect. Correct table is Table 30.</p> <table><tr><th>Document</th><th>Section</th><th>Description</th></tr><tr><td>Standing Data document</td><td>Table 17</td><td>Table updated as described above</td></tr></table>	Document	Section	Description	Standing Data document	Table 17	Table updated as described above	<p>This is the correct table reference</p> <table><tr><th>ControlledLoad</th><th>Description</th></tr><tr><td>NO</td><td>The register is not associated with a network-controlled load schemeNo controlled load</td></tr><tr><td>YES</td><td>The register is associated with a network-controlled load scheme and the load is controlled internally within the meterThere is controlled load associated with a network-controlled load tariff on this register</td></tr><tr><td>EXT</td><td>The register is associated with a network-controlled load scheme and the load is controlled externally from the meterThere is controlled load which is externally switched by the LNSP associated with a network-controlled load tariff on this register</td></tr></table> <p>Furthermore, Origin likes to propose a wording change for the above table to ensure there is no ambiguity in the management of the controlled load as this does not always have to be done by the network. For example, instead of saying “network-controlled load tariff”, change it to “controlled load network tariff”.</p>	ControlledLoad	Description	NO	The register is not associated with a network-controlled load schemeNo controlled load	YES	The register is associated with a network-controlled load scheme and the load is controlled internally within the meterThere is controlled load associated with a network-controlled load tariff on this register	EXT	The register is associated with a network-controlled load scheme and the load is controlled externally from the meterThere is controlled load which is externally switched by the LNSP associated with a network-controlled load tariff on this register	<p>AEMO notes the respondent’s comment. AEMO notes that “EXT” is related to situations where LNSPs actually switch the controlled load. As this item is related to the Standing Data “network tariff” field, changing “network-controlled load tariff” to “controlled load network tariff” improves clarity for</p>
Document	Section	Description																	
Standing Data document	Table 17	Table updated as described above																	
ControlledLoad	Description																		
NO	The register is not associated with a network-controlled load schemeNo controlled load																		
YES	The register is associated with a network-controlled load scheme and the load is controlled internally within the meterThere is controlled load associated with a network-controlled load tariff on this register																		
EXT	The register is associated with a network-controlled load scheme and the load is controlled externally from the meterThere is controlled load which is externally switched by the LNSP associated with a network-controlled load tariff on this register																		



No	Consulted person	Section	Description	Participant comments	AEMO response
					market participants. AEMO has updated the clause accordingly.
4.	Ausnet	9.1	CATS_REGISTER_IDENTIFIER RegisterID	<p>Although the Suffix section was amended from the First Stage to align with the approved ICF_029, the RegisterID section has been updated incorrectly and now de-couples the intent of ICF_029. The prescriptive requirements for the Register Identifier are resulting in the need to make unnecessary costly system changes and are not adding value to Market Participants. Hence, the original ICF_029 sought to remove the need to align the Register Identifier to the NMI Suffix, as such AusNet recommends reinstating the original definition.</p> <p><i>The RegisterID is an identifier used to identify records stored within the CATS_REGISTER_TABLE. A record must be created in the CATS_REGISTER_TABLE for each physical register within a meter.</i></p> <ul style="list-style-type: none"> • For Accumulation Meters, the RegisterID may reflect any unique identifier. E.g. '1', '01', '11', etc.. • For Interval Meters, the RegisterID may match the content of the 'Suffix' within the CATS_REGISTER_IDENTIFIER table. E.g. 'E1', 'B1', 'Q1', 'K1', etc. <p><i>The RegisterID is used to identify a data source that is obtained from the meter. A single meter may provide multiple data sources</i></p>	AEMO notes the respondent's comment.. The clause has been updated to align with Standing Data 4.51 which was published with the Metering ICF Package Consultation and reflects the intent of ICF_029.
5.	Energy Queensland	11 Table 40	No alignment with NOMW for Controlled Load values	<p>Energy Queensland notes the three new Controlled Load values (CIP_049) of YES, NO and EXT in MSATS Standing Data, do not align with the allowable values ("Yes" or "No") in the NOMW-OWN for the ControlledLoad field. Energy queensland seeks clarity as to whether there are plans to update the NOMW to align with the market.</p>	AEMO notes the respondent's comment. The NOMW-OWN is outside of the scope of this



No.	Consulted person	Section	Description	Participant comments	AEMO response
					consultation and it is up to the IEC to consider this issue.

Table 11 MSATS Procedures: MSATS Procedures: CATS

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			Note comments below provided in Minor consultation.	AEMO notes the respondent's comment.
2.	AGL	2.2(r),(s)	Clauses (r) and (s) place obligations on the FRMP to notify the LNSP of any shared fuse arrangements, however, do not contemplate the FRMP arrangements and obligations of the MC to undertake the same notification. The drafting as it stands would see both the MC and the FRMP notify the LNSP of the same shared fuse arrangement.	Propose that for these clauses, that the FRMP obligation be amended to 'notify, or ensure that the LNSP is notified, ..' To allow for arrangements between the FRMP and MC to meet this obligation.	AEMO notes the respondent's comment. To 'notify' an LNSP would also ensure that the party is notified. This clause will remain as-is.
3.	AGL	2.5 (k), (l)		Noting that the Metering Provider is an agent of the MC, the obligations to notify the MC can be extended to the MPB (current or pending) to notify the LNSP on behalf of the MC to meet the MC obligations.	AEMO notes the respondent's comment. An extension of these obligations is outside the scope of this consultation.
4.	AGL	2.6 (k),(l)	Clauses (r) and (s) place obligations on the FRMP to notify the LNSP of any shared fuse arrangements, however, do not contemplate the MC arrangements with MPBs who may undertake the same notification.	Propose that for these clauses, that the MC obligation be amended to 'notify, or ensure that the LNSP is notified, ..' to allow for arrangements between the MC and MPB (current or pending) to meet this obligation.	AEMO notes the respondent's comment. To 'notify' an LNSP would also ensure that the party is notified. This clause will remain as-is.

No.	Consulted person	Section	Description	Participant comments	AEMO response
5.	Energy Queensland			Energy Queensland provides no comment.	
6.	Origin Energy	General (multiple sections e.g. Section 9.1.4)	Unstructured addresses	<p>As noted in previous reports, AEMO proposed the below:</p> <ul style="list-style-type: none"> - Site address information in the unstructured format will no longer be allowed in MSATS from 7 November 2022. - Any existing NMI with site address information in the unstructured format must be converted to the structured format by 7 November 2022. <p>However there are still references of 'unstructured address' throughout the document.</p>	AEMO notes the respondent's comment. At the point of drafting, the MSDR implementation delay was yet to be confirmed. As such, the references were to remain to reflect the existing Procedures. References to unstructured addresses have since been removed in the Procedures. However, unstructured addresses will remain visible during the transition period. Further outworking of this will occur through the MSDR Focus Group.

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 supports the changes.	AEMO notes the respondent's support for this change.
2.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy	General (multiple sections e.g. Section 4.1.4)	Unstructured addresses	Same as above	AEMO notes the respondent's comment. Please refer to the response given in Item 6 of the above table.
4.	Origin Energy	General (multiple tables)	ENLR role clarity	Origin notes that the role of 'ENLR' has been updated throughout the document however it might be inconsistent where CR is not applicable for embedded networks e.g. Table 5-H; 5-J; 6-D; 6-F	AEMO notes the respondent's comment. ENLRs will receive notifications for the relevant transactions in 5-H 5-J, 6-D and 6-F s as they are entitled to receive these for embedded networks. There are not different Change Requests for non ENs and ENs.

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.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy			No comments	

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.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy			No comments	

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.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy			No comments	

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

No.	Consulted person	Section	Description	Participant comments	AEMO response
1.	AGL			AGL supports the changes including the amendments.	AEMO notes the respondent's support for this change.
2.	Energy Queensland			Energy Queensland provides no comment.	
3.	Origin Energy			No comments	

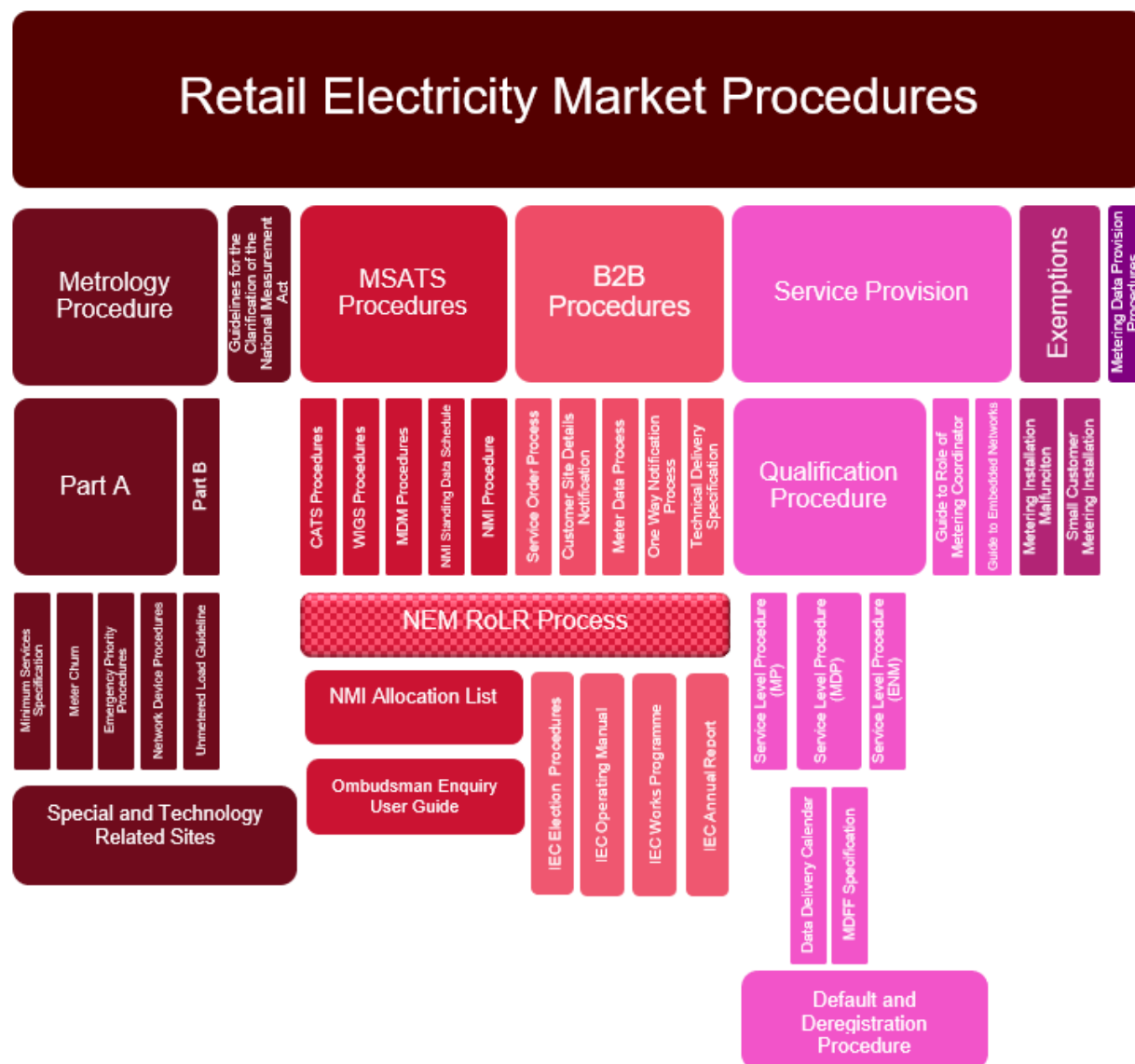
APPENDIX B. GLOSSARY

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

