

ERCF Meeting #10

27 October 2022

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Online forum housekeeping

- 1. Please mute your microphone, this helps with audio quality as background noises distract from the information being shared.
- 2. Video is optional, but having it turned off helps with performance and minimises distractions.
- 3. We ask that you utilise the Chat function for any questions or comments you may have. This aids note keeping and keeps discussions flowing smoothly.
- 4. Raise your hand if you wish to speak to an item. This keeps conversations orderly.
- 5. If you have dialled in via phone, please email ERCF@aemo.com.au your name and organisation for our records.
- 6. If you name appears abbreviated on Teams, please add your name and organisation to the chat for our records.
- 7. Be respectful of all participants and the process.
 - This includes on the call and in the chat

AEMO Competition Law Meeting Protocol

- AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.
- Participants in AEMO discussions must:
 - Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
 - Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
 - Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol
- Participants in AEMO meetings must not discuss or agree on the following topics:
 - Which customers they will supply or market to
 - The price or other terms at which Participants will supply
 - Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
 - Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
 - · Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

Agenda

- 1. Welcome, Introductions & Survey Responses
 - Karen Wilbrink
 - Justin Stute
- 2. Actions
- 3. NEM2025 Governance
- 4. IESS Pre-consultation (Emily Brodie (AEMO) and David Ripper (AEMO))
- 5. Certificate Management Solution (David Freeman (AEMO))
- 6. Enumerations Management ICF
- 7. ICF Register Update
- 8. Subgroup Updates
- 9. Consultations Update
- 10. General Business and Next Steps



Actions

Blaine Miner (AEMO)

Actions



Action #	Description	Responsible	Due Date	Update
1	Blaine Miner to circulate the PCF nominations email to the ERCF	Blaine Miner (AEMO)		Closed – email circulated to the ERCF on Tues 27 Sept
2	ERCF members to consider the potential impacts of IESS related terminology changes on their organisations.	ERCF Members	None specified	Closed.
3	ERCF to email nominations for the Substitution Type Subgroup to ERCF@aemo.com.au	ERCF Members	Friday 7 Oct 2022	Only 2 nominations received as at 20 Oct.
4	ERCF to provide feedback on AEMO's proposal for it to update the Non-schema Valid Values to a blank on the Industry's behalf	ERCF Members	Friday 7 Oct 2022	Only 1 response received as at 20 Oct.
5	AEMO to confirm if Non-schema Valid Values can be provided at a participant level	Lenard Bull (AEMO)	Friday 7 Oct 2022	Closed. ~600k schema invalid values identified across 31 Participants.
6	ERCF members to send through any proposed final changes to the Standing Data for MSATS procedure by Friday October 7	ERCF Members	Friday 7 Oct 2022	Closed, new version published for comment Monday 10 Oct.
7	AEMO to send out a placeholder for a 'Load Profiling Methodology' workshop	Kate Gordon (AEMO)	Friday 7 Oct 2022	Closed. Workshop conducted on Wed 19 Oct.

Notes

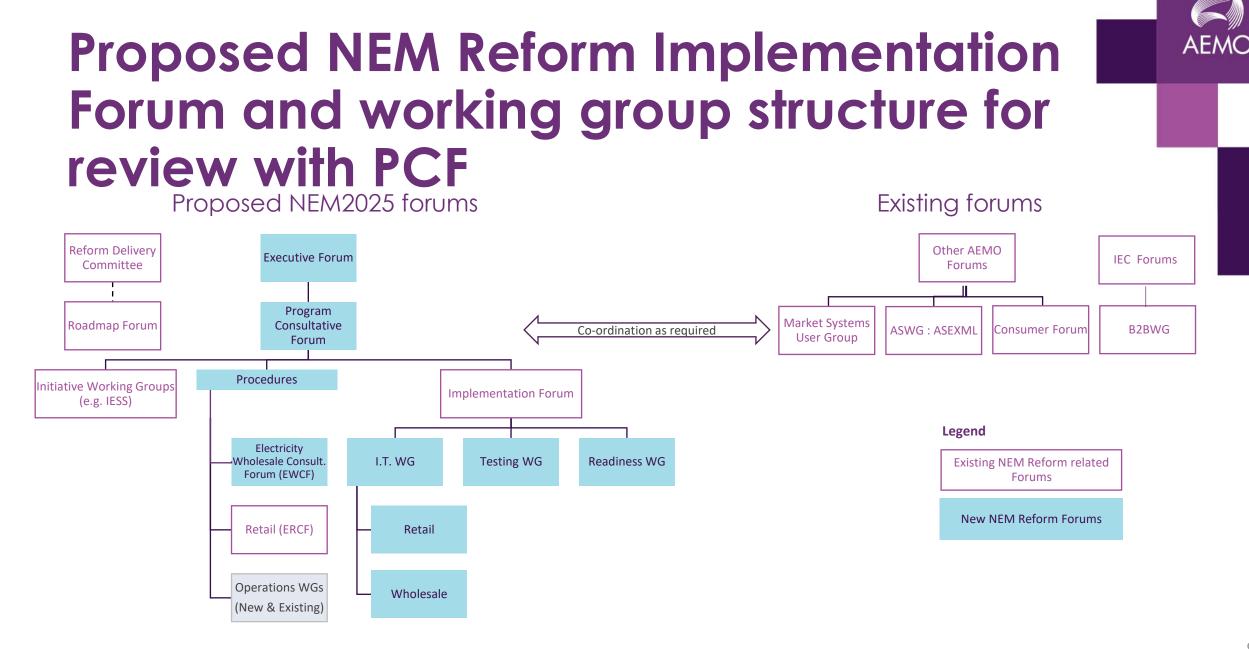
- Blaine Miner (AEMO) spoke to slide 6
 - Action #3
 - Not many nominations received so far in the ERCF Substitution Type subgroup
 - Reminder to send through nominations to the ERCF mailbox
 - Action #4
 - There are approximately 600k schema invalid values across 31 participant IDs in MSATS today. Some feedback has been received re AEMO's proposal of replacing invalid values in with a blank. Requesting further feedback regarding the appropriateness, timings and implications associated to the proposal.
 - Chris Murphy re appropriateness of fix, requested the need to understand the changes that have been made. Will changes be sent through via notifications, or will they be blind?"
 - Lenard Bull confirmed that updates will be blind and that no notifications will be sent. However, when a Participant runs a 'C' report, associated information will be included in the output. He also mentioned most participants seem to have put In place processes to ignore the invalid types. He also mentioned that participants using APIs will see a lot more rejections that those still on FTP.
 - Blaine Miner noted that AEMO has previously provided the ERCF a table listing invalid values and indictive percentages (e.g. '*' '@' in address fields). Subsequently, AEMO has provided lower-level data to responsible parties so they can better consider AEMO's proposal.
 - Lenard Bull confirmed that only invalid characters will be changed (in the proposal) not the complete field value. He also mentioned that AEMO's proposal can't take place from Nov 28 -Feb 3.
 - Mark Riley suggested coordinating these changes with other address update changes planned by distributors to avoid causing additional issues and suggested starting clean ups with AEMO first then the networks.
 - Distributors to consider the implications and timings and call out any coordination or timing sequencing that needs to be considered through the ERCF Mailbox.
 - Blaine Miner summarised the key takeaways
 - If AEMO is to execute this proposal, on participants behalf:
 - It would be blind in nature.
 - Changes will be visible in the 'C' reports and therefore available for your system processing
 - The proposal is being offered to minimise CATS transactions volume in the market

- Action:
 - Blaine requested ERCF members to send their nominations for the ERCF substitution type subgroup asap
 - · Blaine requested that any additional feedback re AEMO's proposal around non-schema valid values (implications, timings and sequencing) be sent to the ERCF Mailbox
 - Blaine to reach out to those who went to initial workshops to confirm if they are interested in participating in the subgroup.



NEM2025 Governance

Blaine Miner (AEMO)





NEM Reform Engagement Update

- Initial PCF held 5th October:
 - Participants still developing approach to NEM reform program with a number indicating will approach on initiative by initiative basis
 - Next Meeting to focus on Initiative briefing and participant impacts to provide further implementation context
- Executive Forum
 - Initial forum rescheduled to early 2023
 - Reflects participant feedback regarding understanding of program an progress of initiatives and implementation roadmap
- Electricity Wholesale Consultative Forum (EWCF)
 - Initial meeting planned for 22 November
 - Terms of Reference (TOR) to be issued by AEMO
- Nominations to <u>NEM2025@aemo.com.au</u>

Program forums and working groups



Туре	Channel	hannel Purpose		Chair	Cadence	
Decisions	EXECUTIVE FORUM	To facilitate engagement between AEMO and executive- level representatives from market bodies, market participants and consumer groups on matters relating to the implementation of the NEM2025 Program.	Executive and Senior industry stakeholders, Open nomination	Violette Mouchaileh 6-monthly and to be of by the forum (October / April)		
	REFORM DELIVERY COMMITTEE	Co-design the development of, and updates to NEM2025 Implementation Roadmap	Executive and Senior industry stakeholders, Attendance by nomination by peak industry bodies	Violette Mouchaileh	Quarterly (Nov / Feb / May /Aug)	
Coordination and Collaboration Forums	PROGRAM CONSULTATIVE FORUM (PCF)	To collaborate with participants and intending participants on matters relating to the planning, coordination and implementation of the NEM2025 Program.	Open to nominated representatives	Peter Caruthers	Monthly (1 st week of month)	
	INITIATIVE WORKING GROUPS	Undertake impact assessment following a final determination, collaborate on high level design & update mobilisation plan.	Open to nominated representatives	Initiative business lead	As Required	
	IMPLEMENTATION FORUM (IF)	To collaborate with participants and intending participants on matters relating to the planning, coordination and implementation of the NEM2025 Program. See sub-groups on following page.	Open forum with current membership	Greg Minney	Monthly (3 rd week of month)	
	PROCEDURES - Electricity Wholesale Consultative Forum - Electricity Retail Consultative Forum	To collaborate with participants and intending participants on the coordination, and the development of amendments to, procedures, guidelines and documentation required for implementation of reforms. Will utilise AEMO / initiative forums to consult on specific topic areas as appropriate	Open to nominated representatives		Monthly	



Program forums and working groups cont.'

Туре	Channel	Purpose	Membership	Chair	Cadence
n Forum – roups	IT WORKING GROUP	Consultation on AEMO foundational/strategic initiatives implementation - Retail subgroup - Wholesale subgroup	Open to nominated representatives	TBD	TBD
Implementation Working Gro	TESTING WORKING GROUP	Coordination and dialogue between subject matter experts on testing prior to each release, Test Planning and Joint issue resolution	Open to nominated representatives	Tui Grant	TBD
	READINESS WORKING GROUP (RWG)	Coordination and dialogue between subject matter experts on readiness to go-live- if required given scale of initiative and level of market impact	Open to nominated representatives	Greg Minney	Monthly (As Required)
Information Forums	NEM REFORM ROADMAP FORUM	Facilitate broad industry perspectives on NEM reform and Roadmap iterations	Open attendance	Peter Caruthers	6 monthly/as required by roadmap updates
	INDUSTRY INFORMATION SESSION	Provide high-level, transparent, timely information on program implementation	Open attendance	Peter Caruthers	Quarterly

Notes

- Blaine Miner (AEMO) spoke to NEM2025 Governance slides
 - The Procedures Working Group, stood up for 5MS and Global Settlement program, will not be established for NEM2025. AEMO plan to leverage the 2 consultative forums, Electricity Retail Consultative Forum (ERCF) and the Electricity Wholesale Consultative Forum (EWCF)
 - EWCF will be chaired by Chris Muffett.
 - Call for nominations went out Oct 26. Please forward nominations to <u>NEM2025@aemo.com.au</u>. The first meeting is scheduled for Nov 22.
 - Additional Focus Groups will be stood up as and when they are required.
- Mark Riley (AGL) and Blaine Miner (AEMO) spoke to the complicated web of initiatives associated with NEM2025. The volume and breadth of initiatives will make consideration complicated.
- Mark Riley (AGL) suggested that Settlements people should be included in EWCF, to deal with Settlements related items, rather than Regulatory people.
 - Blaine commented that other engagement channels will also be leveraged to consider NEM2025 impacts e.g., the existing Settlements Managers Working Group and new Focus Groups



IESS Pre-consultation

Emily Brodie (AEMO) and David Ripper (AEMO)

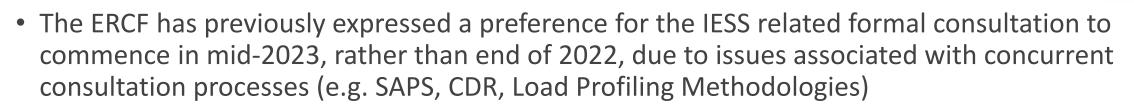


Topics

- 1. Update on AEMO's preferred formal consultation timeframes associated to Retail Electricity & Metering Procedures
- 2. Overview of AEMO's pre-consultation topics
- 3. Today's topic:
 - NMI Classification Codes
- 4. Next month's topic:
 - Embedded network calculations & implications for RM reports



1. IESS consultation timeframes (1/2)

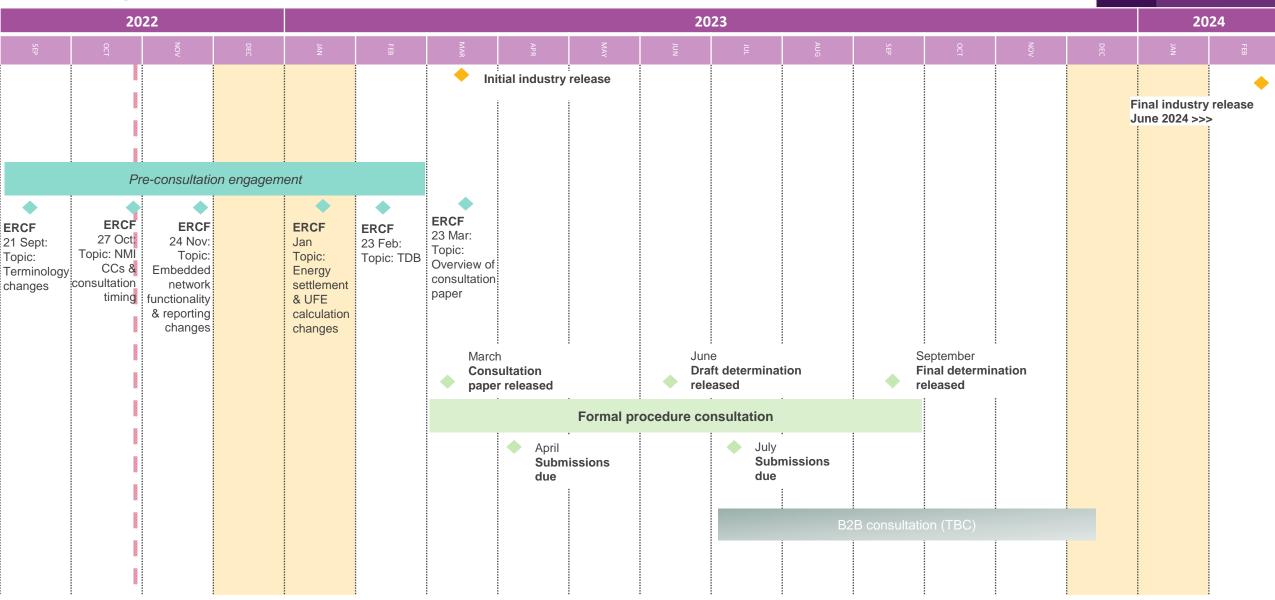


- Considering the risks and benefits of different consultation timings, AEMO's view is that the most appropriate timeframe to commence formal consultation is early March 2023, as this:
 - Manages the risk of consulting too late into AEMO's system build processes
 - Manages issues associated with concurrent consultation processes, as:
 - The SAPS and CDR consultations will have been completed in November 2022
 - The Load Profiling Methodologies consultation is currently scheduled to complete by the end of February 2023
- AEMO still intends to deliver a program of pre-consultation engagement with the ERCF on key IESS topics prior to commencement of the formal consultation

1. IESS consultation timeframes (2/2)

AEMO

Proposed timeframes



2. Overview of pre-consultation topics



ERCF date	Торіс	Issue
21 September 2022 LAST MEETING	Terminology changes	IESS Rule makes extensive changes to terminology including deleting existing terms, introducing new defined terms and amending existing defined terms. AEMO is seeking early feedback from Industry on whether these changes are expected to have a material impact for participant systems or processes.
27 October 2022 TODAY	NMI Classification Codes	 New NMI Classification Codes are proposed for the purpose of: Identifying bi-directional connection points; Enabling appropriate compliance monitoring to protect the integrity of settlements; removing current issue where AEMO requires two NMIs for a connection point (as is the case for BESS); Enabling appropriate application of market fees; Enabling appropriate application of UFE. AEMO is seeking industry feedback on the draft proposal.
24 November 2022 NEXT MEETING	Embedded networks functionality/ reporting changes	Embedded network calculations are changing to manage changes to non-energy cost recovery. This will have an impact on RM reports and require updates to the MDM procedure. AEMO will outline these changes for the ERCF.
January 2023	Energy settlement changes & UFE calculation	There will be changes to calculations for unaccounted for energy (UFE) as part of IESS implementation (there will be separate identification of adjusted consumed energy (ACE) and adjusted sent out energy (ASOE), with UFE based on ACE rather than net). AEMO will advise on these changes, including implications for RM reports and MDM procedure.
23 February 2023	TBD	
23 March 2023	Overview of consultation paper	AEMO will provide an overview of key topics included in the IESS consultation paper.

NOTE these are indicative and may change if AEMO or ERCF consider that other topics should be prioritised for pre-consultation.



3. NMI Classification Codes (1/4)

- Background
 - AEMO is proposing changes to NMI Classification Codes to manage IESS requirements
 - Purpose:
 - Identifying bi-directional units
 - Enabling appropriate compliance monitoring to protect the integrity of Market Settlements
 - Removing a current issue where AEMO requires two NMIs for a storage connection point
 - Enabling appropriate application of market fees
 - Enabling appropriate application of unaccounted for energy (UFE).



3. NMI Classification Codes (2/4)

Proposed changes & definitions

Nature of change	NMI CC	Proposed definition (draft)
New code to identify transmission-connected IRS and replace requirement for 2 NMIs	TIRS	<i>Connection point</i> associated with a registered <i>integration resource system</i> that is connected to the <i>transmission network</i> . This NMI Classification is to be assigned by AEMO from the <i>integrated resource system</i> (IRS) registration approval date.
New code to identify distribution- connected IRS and replace requirement for 2 NMIs	DIRS	<i>Connection point</i> associated with a registered <i>integrated resource system</i> that is connected to a registered network other than a <i>transmission network</i> or <i>embedded network</i> . This NMI Classification is to be assigned by AEMO from the IRS registration approval date.
New code to differentiate between distribution and transmission connected generation	DGENRATR	<i>Connection point</i> associated with a generating system classified as a <i>Market Generator</i> by AEMO that is connected to a registered network other than a <i>transmission network</i> or <i>embedded network</i> . This NMI Classification is to be assigned by AEMO from the Generator registration approval date.
Amendment to differentiate between distribution and transmission connected generation	GENERATR	<i>Connection point</i> associated with a generating system classified as a <i>Market Generator</i> by AEMO that is connected to a <i>transmission network</i> . This NMI Classification is to be assigned by AEMO from the Generator registration approval date.
Amendment to reflect new terminology and IRP Small Resource Aggregator classification of small bidirectional units in addition to small generating units	NREG	 Connection point associated with a stand-alone non-registered DER provider at which: the distribution connected unit is classified by a Small Resource Aggregator as a small resource connection point; or the distribution connected 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 DER provider, defined in 5A.A.1, meets the requirements of NER 5A.A.2.

NOTES:

- An IRS is a system comprising one or more bidirectional units (and which may also comprise one or more generating units or other connected plant that is not part of a bidirectional unit); or a system comprising one or more generating units where the connection point for the system is used to supply electricity for consumption on the system side of the connection point.

- A Registered Generator cannot be approved within an embedded network. Embedded Networks are exempt Networks and a Registered Generator cannot be exempt from the requirements of Chapter 5.

3. NMI Classification Codes (3/4)



- AEMO will manage the transition for existing NMI Classification Codes where a new code needs to apply – NSPs will not have an obligation to transition NMI Classification Codes
- Ongoing: Non-registered NMI Classification Codes [LARGE, SMALL & NREG] will be applied by the NSP to create NMIs. AEMO will then apply the new NMI Classification Code once an installation is registered.



3. NMI Classification Codes (4/4)

- For discussion:
 - What other information do you require to consider potential impacts of these proposed changes on your business systems and processes?
 - In relation to why the new NMI classifications are only for registered facilities
 - The functions required for IESS mainly pertain to registered facilities. AEMO does not have visibility on what non-registered facilities are – these changes need to be discussed with NSPs
 - Any other issues/concerns/questions?

Notes

- Blaine Miner (AEMO) spoke to the first 2 IESS Pre-consultation slides
 - ERCF saw benefit in waiting till mid 2023 to consider IESS changes, to ensure in-flight consultations are finalised e.g. SAPS and CDR (Nov 22) and Load Profile Methodologies (late Feb 23).
 - Preferred timings need to also consider system build, readiness and delivery activities.
 - With that in mind, AEMO is proposing to start the IESS B2M consultation in early March 2023.
 - Pre-consultation with the ERCF, and the B2B WG, will continue.
- Emily Bodie (AEMO) spoke to the following 2 IESS Pre-consultation slides
- David Ripper (AEMO) spoke to the NMI Classification Code slides
 - 3 new NMI Classification Code are being proposed as part of IESS: TIRS, DIRS and DGENRATR. Note, DIRS and DGENRATR are being introduced to distinguish them from Transmission connected TIRS and GENRATRs to enable the correct allocation of UFE.
 - New NCCs proposed to become effective 3 June 2023, in line with the IESS's primary implementation date.
 - · Amendments to the GENRATR and NREG definitions also being proposed.
 - IESS NMI codes to be assigned by AEMO as part of its Registration processes, LNSPs to create NMIs as per today's processes e.g. NREG
 - David R, Glen Wrest and Chris Murphy discussed what will happen to market generators currently on embedded networks. AEMO to take the question away for further consideration.
 - Mark Riley raised a question re about generators immediately at the parent connection point and NREG DER provider vs DR?
 - All agreed to take questions away and work through each scenario.
- Actions:
 - ERCF members to send through any suggested IESS pre-consultation topics to the ERCF Mailbox
 - AEMO to consider what will happen to market generators currently on embedded networks
 - AEMO IESS project members to take-away a number of ERCF questions not answered during the discussion
 - Questions to also be raised at the IESS WG
 - AEMO IESS project members to ensure the NMI Procedure is updated to demonstrate working examples of the new NCCs



Certificate Management Solution

David Freeman (AEMO)



This material covers the Certificate Management solution, which is presently under development.

All information shared is confidential and for impacted market participants only.

The Certificate Management solution is designed to allow market participants to self-manage their TLS* Certificates that are used to connect to many AEMO electricity and gas systems.

Once completed, **AEMO will launch a Certificate Management interface in Q1 2023.**

Background

Today, Electricity and Gas market participants connect to many of AEMO's systems securely using TLS certificates supplied by AEMO.

These certificates must be replaced every 3-years. The replacement process is very manual and can take weeks.

Moving to a self-managed solution

As part of improving market security and empowering market participants to self-manage their connections to AEMO systems, we are providing better way than the current manual approach to TLS certificate management.



Certificate Management API*	Certificate Management User Interface			
To allow you to self-manage your TLS certificates through an API, so that you can choose to automate the management of your TLS certificates.	A user interface on the Markets Portal to allow your IT and network staff to self-manage your TLS certificates.			





Where do I use TLS certificates?

TLS Certificates are only required by participants for application-to-application (also known as systemto-system) communications.

User Interfaces do not use participant-supplied TLS certificates.

The following systems across Gas and Electricity require the use of TLS certificates to authenticate through AEMO's network to use those systems. If you use any of these systems, this solution impacts you.



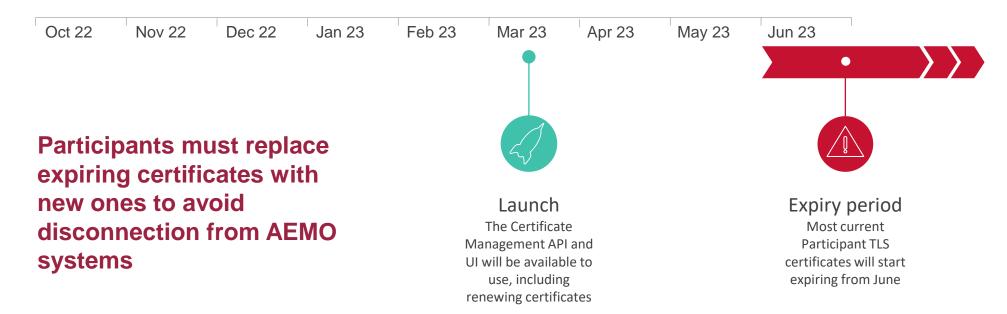
Gas Supply Hub FRC, also known as the GHUB FRC (Gas Retail B2B, and B2M, traffic using ebXML)



Electricity Hub, also known as EHUB, APIs and systems.

Your responsibility

- Once launched, market participants will be required to ensure their own TLS certificate currency and self-manage their TLS certificates.
 - The solution will send notifications to Participants 90-days prior to the expiry of the TLS certificate to remind them to replace their soon-toexpire certificate.
 - AEMO will monitor the replacement of expiring certificates to ensure participants are self-managing the replacement of their TLS certificates prior to expiry.
- Most participant TLS certificates will start expiring from June 2023.



Next steps



AEMO will be in regular contact with **your nominated IT contacts** as the solution progresses, and to ensure they understand their responsibility.

For any further enquiries, please contact this mailbox:



CertificateReplacement@aemo.com.au

Please circulate this pack to your appropriate technical people within your business

Notes

- David Freeman spoke to the Certificate Management Solution slides
 - AEMO Certificate Management Solution to enable market participants to self-manage TLS Certificates to be launched March 2023
 - The solution replaces a highly manual process by AEMO and participants to replace expired TLS certificates
 - Certificate life span 3 years and first certificates due to expire from June 2023. AEMO will be sending our notifications 90 days prior to expiry.
 - Advantage of new system if participants incur a security incident, they can revoke then replace their TLS certificate.
 - Expiry of certificate affects application to application communication NOT access to portals and user interfaces.
 - Affects:
 - Gas Supply Hub FRC, also known as the GHUB FRC (Gas Retail B2B, and B2M, traffic using ebXML)
 - Electricity Hub, also known as EHUB, APIs and systems.
 - Note can only request a new certificate within the 90-day expiry period or window
 - David reiterated that revoke/replace certificate request in the case of a cyber breach will be available in the new solution along with other use cases.
- Mark Riley and Chris Murphy raised the possible need to replace first then revoke to avoid system downtime and
 possibly outside the 90-day period but agreed to wait for solution
- Concerns and questions to be sent to <u>CertificateReplacement@aemo.com.au</u>
- Actions:
 - AEMO to confirm time periods to notify participants of certificate expiry 90/60/30/7 days suggested
 - AEMO to provide Participants their current IT contact list



Enumerations Management ICF

Blaine Miner (AEMO) and Mark Riley (AGL)



Current ERCF Change Process

- Participant emails the ERCF mailbox an 'ERCF Enumerated List Form'
- AEMO:
 - Verifies the proposed value change
 - Publishes an updated version of the Standing Data for MSATS for comment
 - Publishes a new version of the Procedure to AEMO's website
 - Updates the enumerations via MSATS Configuration
- Participants access the enumerated lists/values:
 - Today
 - Via the Standing Data for MSATS procedure and AEMO Markets Portal Help Page
 - From 30 May 2023
 - Via the Standing Data for MSATS procedure and C1 reports



Existing Enumeration Management Options

Option	Description	Enforcement of enumerations	Mechanism	Approving Body	Update Process	Indicative Timeframe	Publishing Location
Option 1 Current process	Enumerations are added as configurable items to the MSATS system and enforced by AEMO systems.	 Enforced by the MSATS application on validation of the inbound aseXML transaction. aseXML transactions will be schema valid. 	AEMO updates the MSATS configurable item. Once updated, the MSATS validation of aseXML transactions will immediately support the new enumeration.	AEMO	ERCF Enumerated List Form	Minimum 3-4 week cycle	 <u>AEMO</u> <u>Markets Portal</u> <u>Help page</u> From May 2023, the CATSC1 Replication Report
Option 2 Enumerations defined in Electricity_r42.xsd	Enumerations added to the versioned aseXML schema file that becomes the CURRENT/LATEST Industry schema.	 Enforced via the aseXML schema. Values that do not match the agreed enumeration will result in an aseXML transaction that is schema invalid. 	Participants must load all XSD files that make up the newest version of the schema release in their market system. This version is accessible only after an MSATS deployment, and the participant updates their aseXML schema preference to CURRENT/LATEST.	ASWG	ASWG Normal Change Process	Minimum 8week cycle for approval It also requires an MSATS release to PreProd and then Prod.	<u>AEMO</u> website, aseXML page
Option 3 Enumerations defined in ElectricityEnumerations. xsd	Enumerations added to a dedicated non-versioned aseXML schema file containing electricity-specific B2B or B2M enumerations.		Participants load just the new non- versioned ElectricityEnumerations.xsd schema file in their market system. This can be done at any point after the approved XSD is published	ASWG	ASWG Rapid Change Process	Minimum 5 week cycle	<u>AEMO</u> website, aseXML page



Enumerations Management ICF

- Background:
 - As part of the MSATS Standing Data Update review conducted in 2018, several MSATS fields were identified as useful. However, that information was either optional and not being populated or being provided in non-standard forms.
 - As a result, it was agreed that the various fields within MSATS would use standard enumerations which would be published by AEMO, either in the procedure or published as externally managed files.
- Issue:
 - Since the final determination of the MSDR consultation, additional fields within the Standing Data for MSATS procedure have been identified as having enumeration requirements which can require rapid updating.
 - When the enumerations are not available, MPBs:
 - Will not be able to populate those fields which are missing valid enumeration values
 - Undertake necessary steps to raise a change request, have the ERCF approve the change and undergo a consultation to have the enumeration list updated
 - Build a workaround to manage and monitor those NMIs which do not have all the fields populated due to newly identified enumerations
 - Administer enquiries from NMI associated market participants when the values have not been populated.
- Proposed solution:
 - To support efficient data sharing processes, it has been identified that some MSATS field enumerations could be administered outside the consultation framework due to the non-material impact to market participants. Hence, they do not need to be maintained within the Standing Data for MSATS procedure.
 - Participants have also identified that enumerations could be classified into 2 separate categories.
 - Enumerations which are provided as information only or contribute to participant's processes. Initially, the enumerations for the Meter Manufacturer and Model fields were identified as information only, potentially requiring additional enumerations to be added in the future within a timeframe which the standard consultation process could not support. Hence, it was agreed to have these enumerations managed outside the Standing Data for MSATS procedures.
 - This ICF identifies proposed fields for their enumerations to be managed outside the Standing Data for MSATS procedure, the process to amend those enumeration lists via a Rapid change process and where those enumerations are published.

Proposed Solution (cont.)



- Remove the enumerations of the following fields from the Standing Data for MSATS procedure (section 11 Table 14 Valid Transformer Field Values) and file them in an industry readily accessible repository:
 - CT Type
 - CT Ratio (Available)
 - CT Ratio (Connected)
 - CT Accuracy Class
 - VT Type
 - VT Ratio (Available and Connected)
 - VT Accuracy Class
- Include an additional enumeration for each of the above mentioned fields, such as TBA. This will allow MPBs to populate whilst
 triggering the process to add a new enumeration to the field. This value will also communicate to the market participants that the
 actual enumeration is not currently available and the process to request it has been triggered.
- Updating the enumerations of the above fields including the Meter Manufacturer and Model fields to follow the Rapid Change process flow see Attachment A.
- Amend MSATS Clause 2.1 (i) obligation to update MSATS to extend it to when the participant is required to submit an update to AEMO for a new enumeration is made available see Attachment B.

Notes

- Blaine Miner spoke to the first 2 slides of the Enumerations Management ICF slides
 - Confirmed that Option 1 is the current ERCF change process and that Options 2 and 3 are the existing ASWG change processes
 - Confirmed that Option 1 should take as little as 3-4wks for a change to be considered and finalised: 1 week to assess and prepare for the publishing of a new version of the procedure for comment, 2 weeks for stakeholder feedback and one week to consider feedback and to publish the final version
 - Minimum cycle for approval and implementation associated with options 2 and 3 were provided by Wayne Lee (Chair of the ASWG)
 - Noted that AEMO is trying to move away from schema validation, option 2 and 3 are schema validations
 - A schema change would be required to point to the updated enumerated file, which contains the new field element to support Options 2 and 3
 - Once the field element is recognised, changes to the associated values would not require a schema change
- Mark Riley spoke to last 2 slides of the Enumerations Management ICF slides
 - Raised concerns re new CT and VT ratios needing to go through procedure consultation to update and make available. Meter Manufacturer and Model was taken out of the list (Standing Data). Also that there are 2 different processes across Gas and Electricity for updating enumerations which is not ideal.
 - The Subgroup:
 - Identified 2 categories of enumerations:
 - Information only purposes
 - Those that support core Industry processes.
 - Recommended
 - Information only enumerated values should be removed from the Standing Data for MSATS
 - Enumerations should include a 'TBA' value where appropriate
 - 'TBA' allows for the time delay between identifying a new enumerated value and going through the enumerations change process to get the new value into MSATS for transaction purposes.
 - Blaine Miner confirmed 'TBA' will be adopted by AEMO as part of Standing Data new version

- Actions:
 - ERCF to consider and provide feedback re their preferred enumerations mgt option



Blaine Miner (AEMO)





Issue/Change Title	Short Description	Proponent	ICF Ref#	Current Status/Update
ADWNAN Reporting changes	Assignment of Interval ADWNANs to MDP in AEMO Performance Reports	Jane Hutson, EQ	017	Implementation delayed due to an identified impact to AEMO's MDM. Implementation date TBD.
Child NMI standing data quality - TNI and DLF	 ENM compliance requirement includes maintenance of standing data of Child NMIs – TNI and DLF I. Child NMI TNI and DLF is directly inherited from parent NMI TNI and DLF for all child NMIs except Child NMIs with site specific TNIs. ENMs currently do not have visibility on parent NMI standing data and to any changes made on the parent NMI standing data (CRs raised on Parent NMIs). This results in an issue as the Child NMI TNI and DLF becomes inaccurate when a parent NMI TNI and DLF are changed in the market but not updated to the ENMs. This affects the Child NMI billing in the market resulting in incorrect billing of consumers. * This also directly affects the SDQ report in MSATS and in turn our ENM compliance report from AEMO. 	intelenm@energy intel.com.au	032	Scheduled for the May 2023 release.
Updating Network Tariff for a Greenfield NMI	Configuration change to validation in MSATS on the CR3101 to allow the CR3101 to continue rather than reject on a Greenfield NMI.	Laura Peirano (UE)	047	Scheduled for the May 2023 release.

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Issue/Change Title	Short Description	Proponent	ICF Ref#	Current Status/Update
NMI Status Updates	Proposes more explicit obligations regarding LNSPs reflecting NMI status energisations/de-energisations in MSATS regardless of the mechanism that triggered the status and this trigger point being from when LNSPs are advised of said status.	Helen Vassos (PLUS ES)	052	Subgroup formed. Proponent considering next steps.
Substitution Review	The review requires consideration for new substitution rules to be implemented for interval metering data to replicate substitution rules derived from Manually Read Interval Meters and Accumulative Meters.	Mark Leschke (Yurika)	054	Subset of the initial subgroup to meet to consider next steps
Clarifying when an embedded network code must be issued	Clarifying EN interpretations of the relevant clause, so the clauses are applicable regardless of the Distributor's embedded network application process.	Dino Ou (Endeavour)	055	Included in the 'Load Profiling Methodologies' consultation
Clarification of End Date in Inventory Table	Some MDPs are using NCONUML Inventory Table End Date to identify when the metering data is last calculated, updating it each month. Proposal is to clarify the end-date be when there is a change to consumption or abolishment. If not, the End Date should be reflected as 31.12.9999.	Mark Riley (AGL)	056	Subgroup formed. Proponent considering next steps.
Review of NMI Classifications	Some NMI Classifications are defined according to consumption, while some are defined according to throughput. The descriptions should be updated for consistency and to better accommodate for new connection arrangements (EG: those associated with IESS)	Mark Riley (AGL)	059	Subgroup formed. Proponent considering next steps.
'Spikes' in settlement volumes within a 30- minute period	Following the introduction of 5MS, participants have witnessed peculiar 'spikes' in settlement volumes. These spikes occur within a 30-minute period and are a consequence of using the methodology outlined in AEMO's Metrology Procedures Part B.	Mark Riley (AGL)	060	Included in the 'Load Profiling Methodologies' consultation



Issue/Change Title	Short Description	Proponent	ICF Ref#	Current Status/Update
Addition of the 'HouseNumberToSuffix' field	 The 'House Number To Suffix' is a part of the Australian structured address standards. 'HouseNumberToSuffix' was added to the r42 schema in mid-November 2021 by the ASWG, the body that ensures the technical accuracy of the aseXML schema. At the time, ASWG Industry representatives suggested that, purely from an XML perspective, it would be prudent to add a 'HouseNumberToSuffix' element as a logical extension of 'HouseNumberTo'. While its addition to the schema may be technically valid, its addition to the Procedures is still subject to consultation. 	Aakash Sembey (Origin Energy)	064	Included in the 'Load Profiling Methodologies' consultation
Removal of NMI Discovery Type 3 limitations	 'Won in Error' process being impacted by MSATS NMI Discovery Type 3 showing an error message where a transfer completed more than 130 business days ago. This MSATS constraint forces market participants to rely on a manual process and retailers are left with no choice but to obtain the 'previous FRMP' details from the relevant network via email. Rule 7.15.5 (c) and (e) of the NER provides relevant provisions for retailers to access to energy data, including NMI Standing Data, in order to comply with its obligation. Since there are no restrictions in the NER, Origin requests AEMO to consider removing this validation from MSATS. 	Aakash Sembey (Origin Energy)	065	Included in the 'Load Profiling Methodologies' consultation



Issue/Change Title	Short Description	Proponent	ICF Ref#	Current Status/Update
New 'CT Ratio Available' field values requested	 New 'CT Ratio Available' field values are being requested by PlusES: 1250:01 60000:05 1000/1200/1600:5 1000/1500/2000:5 400/1400/1600/2400:1 600/750:1 200/600/900/2400:1 15/25/40/60:5 50/75/100/150:5 	Linda Brackenbury (PlusES)	066	Closed. New 'Standing Data for MSATS' procedure version to be published late Oct.
Reviewing and updating file examples in the MDFF Specification document.	The MDFF document includes example files. Some of these files have not been updated to incorporate changes in the industry including 5MS and Global Settlements. AEMO Metering to review and update where required the examples in Appendix H of the MDFF Specification.	AEMO	067	Document to be updated and published for comment. Exact timing still TBD.
Enumeration Management	This ICF identifies proposed fields for their enumerations to be managed outside the Standing Data for MSATS procedure, the process to amend those enumeration lists via a Rapid change process and where those enumerations are published.	Subgroup	068	Being assessed by AEMO



Proposed New ICF

Issue/Change Title	Short Description	Proponent	ICF Ref#	Current Status/Update
New fields in MSATS defined by a naming convention that does not align with the procedural field name.	With the introduction of new fields into MSATS as part of the MSDR it has become known that AEMO may create the new fields in MSATS defined by a naming convention that does not align with the procedural field name. The AEMO defined the field name may be based on their database name and participants are then required to create a mapping table within their systems to associate this name with the procedural field name that is defined in the Standing Data for MSATS document.	Adrian Honey (TasNetworks)	TBD	ERCF Engagement

Notes

• Adrian Honey spoke to the Proposed New ICF

- Chris Murphy noted the problem is where Oracle database names are used for reports or vice versa. Telstra favours only ever publishing data with CATS procedural titles.
- Mark Riley comment "as we're developing new field names or new procedure titles, maybe we need to explicitly allow room for the for the database name or the reporting name as part of the change request so that we are tracking it."
- Blaine Miner suggested that more information is required to determine the next steps.

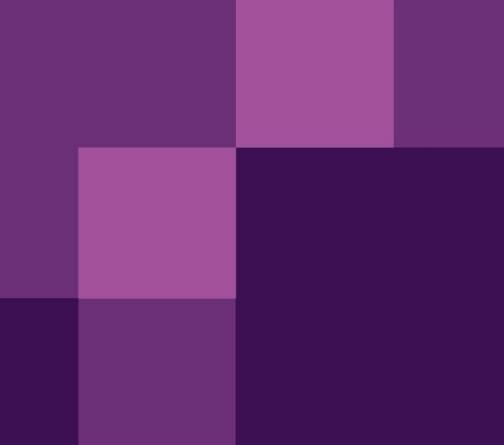
• Actions:

- AEMO to circulate the proposed new ICF to ERCF members
- Blaine to circulate any feedback from AEMO's IT area when provided



Subgroup Updates

Proponents





Subgroup Updates

Issue/Change Title	Short Description	ICF Ref#	Status	Proponent	Current Status/Update
Clarification of End Date in Inventory Table	AGL has raised the issue that Inventory Tables are being populated and maintained inconsistently between DNSPs and that the data being provided by some DNSPs are seen as being inadequate.	56	Active	Mark Riley (AGL)	Next steps being considered by the proponent.
'Spikes' in settlement volumes within a 30- minute period	Following the introduction of 5MS (1 Oct 2021), Powershop has witnessed peculiar 'spikes' in settlement volumes. This subgroup is being established to discuss and consider potential long-term solutions to address this issue.	60	Active	Mark Riley (AGL)	'Load Profiling Methodologies' consultation currently in progress
NMI Status	PlusES is proposing that the NMI status must be updated by the LNSP when they become aware that the supply status to the connection point is different from what is recorded in MSATS. i.e. the updating of the NMI status should not only occur when the LNSP has effected an energisation service.	52	On-hold	Helen Vassos (PlusES)	Subgroup last met on 4 May 2022. Next steps being considered by the proponent
Review of NMI Classifications	AGL is proposing that the basis of, and the NMI classifications themselves, be reviewed to ensure they appropriately communicate the service a NMI represents.	59	Active	Mark Riley (AGL)	Subgroup considering next steps
Enumerations	 Subgroup is considering the preferred treatment of various MSATS enumerations, predominantly around separating the enumerations into 2 categories: Those that have a consequential impact on key Industry functions e.g. billing which should continue to be maintained in AEMO's 'Standing Data for MSATS' procedure Those that are provided for 'information purposes only' which may be able follow the ASWG's 'Rapid change process' 	TBD	Active	Mark Riley (AGL)	Proposal provided at this meeting



Consultations Update

Kate Gordon (AEMO)



Consultations Updates



Consultation	Short Description	Status	Current Status/Update
Standing Data for MSATS	 Updated version published for comment to: Allow for additional enumerated values, including 'TBA", to support MSDR related activities from 7 Nov 2022 Correct minor errors 	Completed	 Standing Data for MSATS v5.32 to be published to AEMO's website early next week Pre-Prod and Prod configuration updates have been completed
Standalone Power Systems (SAPS)	AEMO has prepared an Issues Paper to facilitate informed debate and feedback by industry about the most efficient way to meet the objectives for implementing the SAPS Framework in AEMO Retail Electricity Market and Settlement procedures.	In progress	Final report due by Thursday 3 November 2022.
Consumer Data Right (CDR)	Consumer Data Right (CDR) is Australian Government legislation, introduced in November 2017, to give more control and choice to consumers on how their data is shared and used. CDR has been introduced as an amendment to the Competition and Consumer Act under Australian Commonwealth legislation. AEMO has published an Issues Paper regarding the most efficient way to meet AEMO's Consumer Data Right (CDR) obligations and other matters which require modification (including ICF 061, ICF 062 and ICF 063).	In progress	CDR Part 2 Final Report due by Tuesday, 8 November 2022 .
UFE Reporting Guidelines	AEMO has prepared an Issues Paper to facilitate informed debate and feedback by industry about the content of the UFE reporting guidelines to meet the objectives for 3.15.5B in the NER.	In progress	 Publication of Draft Report and Determination Friday 18 November 2022 Closing date for submissions in response to the Draft Report 19 December 2022 Publication of Final Report and Determination 27 February 2023
Load Profiling (ICF_060)	 Following the introduction of 5MS, participants have witnessed peculiar 'spikes' in settlement volumes. These spikes occur within a 30-minute period and are a consequence of using the methodology outlined in AEMO's Metrology Procedures Part B. This consultation will seek to determine a preferred long-term methodology. Procedures impacted include: Metrology Part B and MDM Procedure. Consultation also expected to include: ICF_055 - Embedded Network Codes - Procedure(s) impacted: CATS ICF_064 - 'HouseNumberToSuffix' field - Procedure(s) impacted: CATS/WiGS and Standing Data for MSATS ICF_065 - Removal of NMI Discovery Type 3 limitations 	In progress	 Closing date for submissions in response to this Notice and Issues Paper Thursday, 27 October 2022 Publication of Draft Report and Determination Thursday, 1 December 2022 Closing date for submissions in response to the Draft Report Friday, 20 January 2023 Publication of Final Report and Determination Friday, 24 February 2023
IESS	The Commission's final rule makes a number of changes that better integrate storage into the NEM, including, a new registration category, the Integrated Resource Provider (IRP), that allows storage and hybrids to register and participate in a single registration category rather than under two different categories.	Upcoming	 In recognition of ERCF feedback, formal consultation re Retail & Metering consultations are planned to commence March 2023

The link to the 'Retail consultations calendar' is provided below, noting that there may be a short lag between updates: https://aemo.com.au/en/consultations

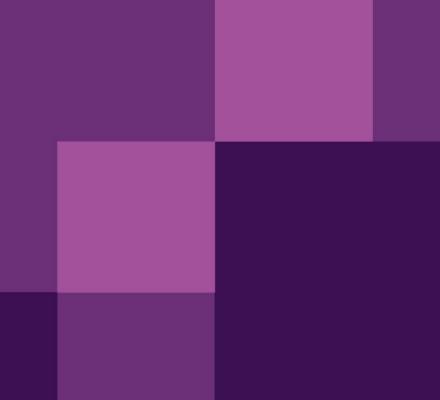
Notes

- Kate Gordon (AEMO) spoke to Consultations Update slide
- Mark Riley commented
 - Regarding SAPS, may be worthwhile having a workshop to go through the final outcomes of the consultation
 - Regarding CDR, may be worthwhile having a workshop to go through various LCCD application scenarios
- Blaine confirmed that Gareth Morrah is currently considering Mark's email request re another SAPS workshop.
- In response to a question asked, Blaine confirmed that the 'HouseNumberToSuffix' is being proposed as a new field in MSATS as part of the Load Profiling Methodologies consultation, with a proposed effective date of 30 May 2023.
 - AEMO also confirmed that the 'HouseNumberToSuffix' field already exists in the current aseXML



General Business and Next Steps

Blaine Miner (AEMO)





General Business & Next Steps

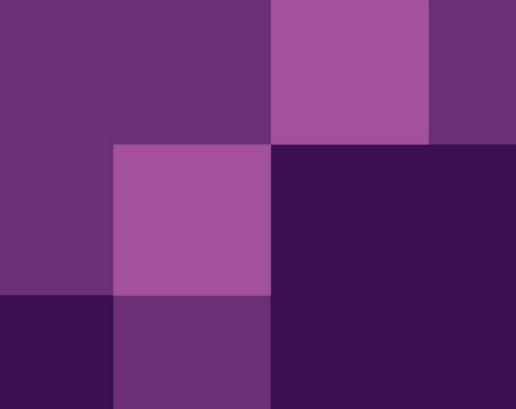
- Feedback re an alternative definition for the Last Consumer Change Date (LCCD) field
 - Current definition:
 - "The date a consumer starts as the new account holder for a premise."
 - Alternative definitions
 - "The date a consumer starts or ends as the account holder for a premise."
 - "The date the account holder changes for a premise."
 - "The date the current account holder for a premise is no longer the account holder for that premise."
 - "This date indicates either:
 - the date from when the current account holder for a NMI is no longer the account holder for that NMI; OR
 - the date from when there is a new account holder for a NMI"
- Are there any general business items members wish to raise?
- Actions and notes to be circulated asap
- Next, and last, meeting for 2022 scheduled for Thursday 24 November
 - Please send through any proposed agenda items, questions or comments to ERCF@aemo.com.au

Notes

- Blaine Miner (AEMO) spoke to General Business and Next Steps slide
- Feedback re an alternative definition for the Last Consumer Change Date (LCCD) field:
 - Pre-meeting feedback from ERCF members supporting the alternative LCCD definition of "The date the consumer starts or ends as the account holder for a premises."
 - From AEMO's perspective this definition importantly makes sure that a previous consumer does not have access to data that it shouldn't i.e. the period from the customer moving out to a new account holder being established.
 - Chris Murphy would like to see both start and end day to make it work.
 - Daniel Hoolihan suggested "the date the current requestor would get data from". General consensus that a guideline or similar required to clarify what we are using the field for and how to action it in an MSATS change request environment.



Appendix





ERCF Planned Release Summary

• Standing Data for MSATS

• Standing Data for MSATS

November 2022:

configuration clarification

metering installation.

GPS Coordinates Value where no

GPS coverage is available at the

Additional Transformer Valid Values

ICF ID

013

016

031

049

053

062

063

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	Description	Document Impacted	ICF ID	Description	AEMO Change Type
	Change Cancellation Timeframe for CR6800	CATS Procedure	032	Child NMI standing data quality - TNI and DLF	System only change
	Reinstatement of MC Objection of BadParty" for Victorian SMALL NMIs	CATS Procedure	047	Updating Network Tariff for a Greenfield NMI	System only change
	Revision of definitions of SMALL and LARGE NMI Classifications	CATS Procedure			
	Controlled Load Enumerations	Standing Data for MSATS			
	GPS Coordinates Minimum Requirements. Connection	Standing Data for MSATS			

May 2023:

* Please note that the above summary only contains ERCF initiated changes and does not include other initiatives such as MCPI, MSDR, GS, etc.

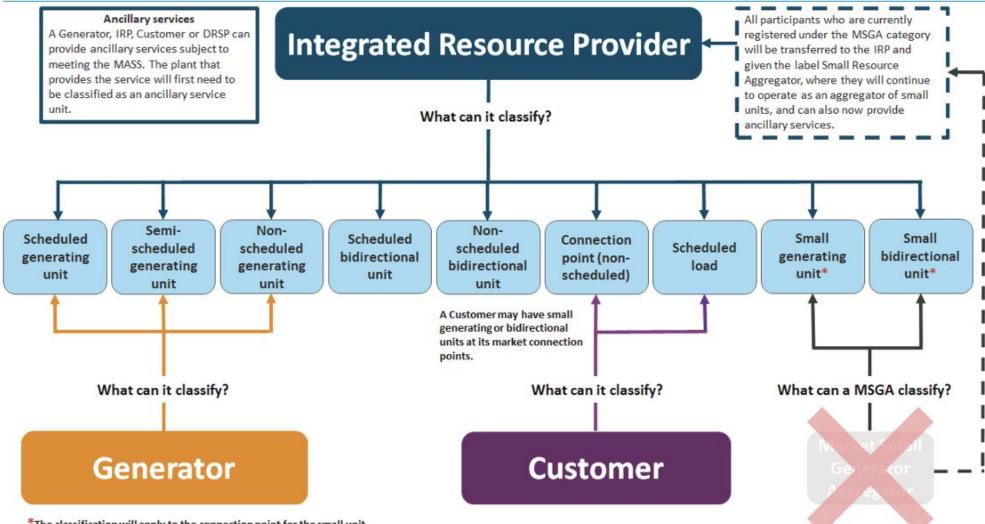


Organisation	Email Address
Ausgrid	mbshelpdesk@pluses.com.au
AusNet	LNSP@ausnetservices.com.au
Citipower Powercor	connectionservicesenquiries@powercor.com.au
Endeavour Energy	groupisolation@endeavourenergy.com.au
Energex	premisedata@energex.com.au
Ergon Energy	premisedata@ergon.com.au
Essential Energy	networkB2B@essentialenergy.com.au
EvoEnergy	nemnetwork@evoenergy.com.au
Jemena	mc@jemena.com.au
SAPN	sipflag@sapowernetworks.com.au
TasNetworks	TasNetworksLNSP@tasnetworks.com.au
United Energy	MROsupport@ue.com.au





Figure 1: Classifications and services that can be provided by Market Participants



^{*}The classification will apply to the connection point for the small unit

Source: AEMC



For more information visit

aemo.com.au