

NEM2025 Industry Test Working Group

Wednesday 25th January 2023

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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**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. 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:

1. Which customers they will supply or market to
2. The price or other terms at which Participants will supply
3. Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
4. Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
5. 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

Tui Grant



Agenda

#	Time	Topic	Presenter
1	10:00 – 10:05	Welcome and Agenda	Tui Grant
2	10:05 – 10:10	Actions	Tui Grant
3	10:10 – 10:15	March Release	Tui Grant
4	10:15 - 11:00	May Release	Tui Grant
5	11:00 - 11:10	Environment Refresh	Tui Grant
6	11:10 – 11:20	Questions	All

Actions

Tui Grant



Actions



ID	Status	Action	Comment

March Release

Tui Grant



Suggested Testing for the March 2023 Release.

- Participants interested in the changes are welcome to start the registration process for SGA's and MRSP's from the Pre Production release date 01st March.

Industry Testing	
Suggested Tests	Participants
Registration of SGA's	SGA
Verify bid submissions once registered	SGA
Registration of MSRP (in support of May release)	MSRP

May Release

Tui Grant



Stand Alone Power Systems (SAPS)

Design Decisions



SAPS – New Role Category

SAPS has introduced some specific requirements related to the Participant Registration category.

- Currently MSATS records all financially responsible participants as FRMPs
- However to support the new requirements MSATS will need to know the category.
- A new Role Category will be included to the ROLE assignment within MSATS.
 - The Role Category will initially be used to identify if the FRMP is a category of:
 - SGA – Small Generator Aggregator; or
 - MSRP – Market SAPS Resource Provider
- The new Role Category will be included into the C1 – Cats_Participant_Roles report
- The New Role Category will be used in MSATS Change Requests validations.

SAPS – Change Details

As identified previously SAPS introduces some new conditions relating to MSRPs and Stand Alone Power System (SAPS):

- Embedded Networks are not supported within the SAPS
 - New CR validation will reject NMIs being registered to a SAPS that have an Embedded Network Code assigned.
- Transferring a NMI to a SAPS requires the DLF and TNI to be updated.
 - New CR validation will reject the update of a NMI to a SAPS that does not have a 'SAPS' DLF and TNI.
- Small Generator Aggregator (SGA) are not eligible within a SAPS
 - New CR validation will reject SGA (FRMP) Participant being transferred to a SAPS NMIs.
- SAPS Resource Provider (MSRP) are not eligible within the NEM
 - New CR validation will reject MSRP (FRMP) Participant being transferred to a NEM NMI.

SAPS – Change SDQ reporting

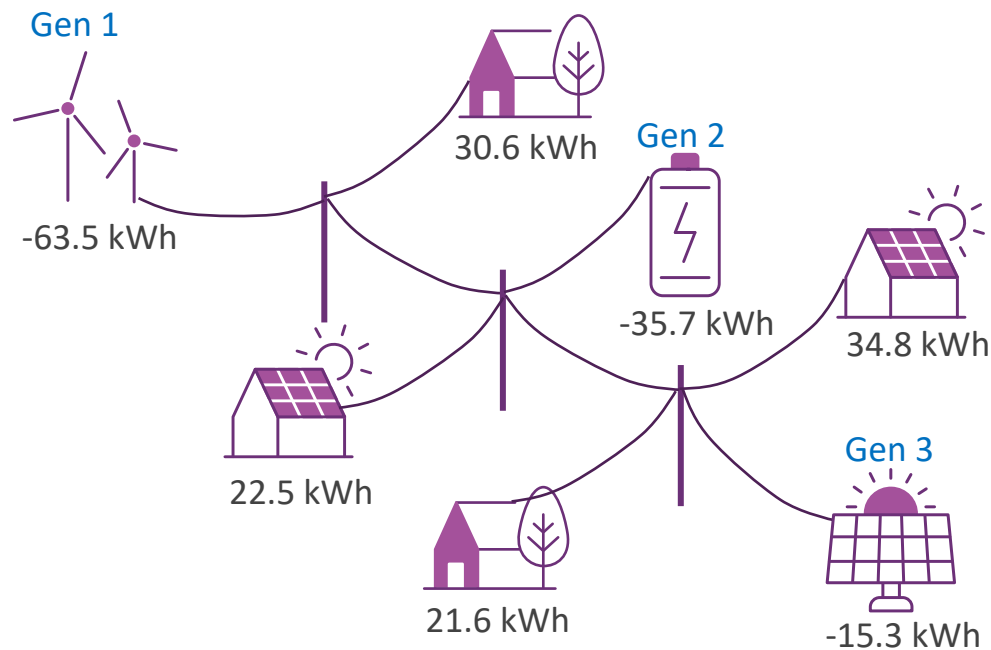
Due to changes in data via multiple CRs over time the data quality may not be in line with the Rule Requirements:

- Therefore New SDQ validation will be added to the RM29 report;
 - LNSP checks:
 - SAPS DLF is correctly assigned to only SAPS NMIs
 - SAPS NMIs do not have an Embedded Network Parent value assigned
 - Each SAPS has a Generation unit assigned and a Customer NMI
 - ENM checks:
 - SAPS NMIs do not have an Embedded Network Child value assigned
 - FRMP checks:
 - A SGA is not assigned as the FRMP to a SAPS NMI
 - A MSRP is not assigned as the FRMP to a NEM NMI
 - A Scheduled Generator is not assigned to a SAPS

SAPS Energy Allocation

Allocation of Energy to multiple MSRP generators

- The Contribution Ratio and Allocation will be applied for each interval



Load	30.6 kWh
	22.5 kWh
	21.6 kWh
	<u>25.4 kWh</u>
Total Load	100.1 kWh

Gen 1	-63.5 kWh
Gen 2	-35.7 kWh
Gen 3	<u>-15.3 kWh</u>
Total Gen	-114.5 kWh

Calculate Contribution Ratio

Ratio = Gen n / Total Gen

Gen 1 = $-63.5 / -114.5 = 0.5546$

Gen 2 = $-35.7 / -114.5 = 0.3118$

Gen 3 = $-15.3 / -114.5 = 0.1336$

Allocation = Total Load * Ratio

Gen 1 = $100.1 \times 0.5546 = -55.52$

Gen 2 = $100.1 \times 0.3118 = -31.21$

Gen 3 = $100.1 \times 0.1336 = -13.37$

Energy sign set to '-' to indicate Generation

SAPS Generator Reconciliation

To assist in the reconciliation of SAPS generators “calculated energy data”

- A new RM51 – Regulated SAPS Generator Reconciliation report will be created to provide the values used in calculating the allocated values.
- The report will be automatically created and provide to the registered MSRP (FRMP) as part of the MDM allocation process

Caseld	SettlementType	ProfileArea	TNI	NMI	SettlementDate	CreationDT	DataType	Period001	Period002	Period003	Period004	Period005	Period006	Period007	Period008	Period009	Period010	Period011	Period012
1234	FINAL	ERGONENERGYSAPS	B001	12345678901	16/12/2022	22/12/2022 19:00:00	Total_Load	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
1234	FINAL	ERGONENERGYSAPS	B001	12345678901	16/12/2022	22/12/2022 19:00:00	Cont_Ratio	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286	0.4286
1234	FINAL	ERGONENERGYSAPS	B001	12345678901	16/12/2022	22/12/2022 19:00:00	Calc_Alloc	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286
1234	FINAL	ERGONENERGYSAPS	B001	56789012302	16/12/2022	22/12/2022 19:00:00	Total_Load	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
1234	FINAL	ERGONENERGYSAPS	B001	56789012302	16/12/2022	22/12/2022 19:00:00	Cont_Ratio	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714	0.5714
1234	FINAL	ERGONENERGYSAPS	B001	56789012302	16/12/2022	22/12/2022 19:00:00	Calc_Alloc	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714	0.1714
Caseld	SettlementType	ProfileArea	TNI	NMI	SettlementDate	CreationDT	DataType	Period001	Period002	Period003	Period004	Period005	Period006	Period007	Period008	Period009	Period010	Period011	Period012
1234	FINAL	ERGONENERGYSAPS	B001	24680135703	16/12/2022	22/12/2022 19:00:00	Total_Load	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
1234	FINAL	ERGONENERGYSAPS	B001	24680135703	16/12/2022	22/12/2022 19:00:00	Cont_Ratio	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1234	FINAL	ERGONENERGYSAPS	B001	24680135703	16/12/2022	22/12/2022 19:00:00	Calc_Alloc	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Above is a mock up of the report contains:

- Total_Load – Sum of customer NMI energy in kWh for the regulated SAPS
- Cont_Ratio – Ratio of generated energy contributed to the regulated SAPS
- Calc_Alloc – Calculated allocation of energy for the generation NMI (Total_Load x Cont_Ratio)

Note: fields and details within the mock up report may change



Additional Changes in the May release

Design Decisions



Change Details

In addition to SAPS which is the largest change in the May release the following changes are also in the release:

- Introduction of two new CR to support Last Customer Change Date (LCCD) which will distinguish between the moving of a NMI between FRMP ID's within a Retailer from move to different Retailer. This change is in support of CDR functionality.
- Update of B2M to r43 to support the new LCCD field, C1 and RM51 report.
- Additional tables available for C1
- Update of B2B to r43 with a new OWNX for the communication of shared isolation flag
- NMI discovery change to type 3 discovery (130 business days)
- Change to CR3101 to validate greenfield site network tariff code
- Allow ENMs visibility to parent NMI standing data
- House Number To Suffix' is a part of the Australian structured address standards and available in B2B and B2M r43.

Suggested Testing for the May 2023 Release.

- Request for interested parties for the invitation testing of SAPS is requested by 15th Feb to allow for planning and preparation
- Q&A sessions will be held during the Pre Production testing period to support any participants testing and requiring assistance and track the invitation testing progress

Invitation Testing

Suggested Tests

Invitation for interested parties to verify SAPS set up

Verify additional validations to CR's as part of SAPS

Settlement run for SAPS (if interest is high enough)

Participants

MSRP/FRMP/LNSP

LNSP/FRMP

LNSP/FRMP/MSRP

Industry Testing

Suggested Tests

C1 updates – additional tables available for participants

B2B Schema r43

B2M Schema r43

'House Number To Suffix' is a part of the Australian structured address standards.

Updating Network Tariff for a Greenfield NMI

Allow ENMs visibility to parent NMI standing data

Extend the current 130 business day limitation on NMID3 requests.

New field and CR 5056/5057 – Last consumer change date (LCCD)

Verify changes to child NMI standing data

Change to CR3101 to validate greenfield site network tariff code

Verify NMI discovery change to type 3 discovery (130 business days)

Verify additional validations to CR's as part of SAPS

Participants

ALL

ALL

ALL

ALL

ALL

ALL

ALL

FRMP

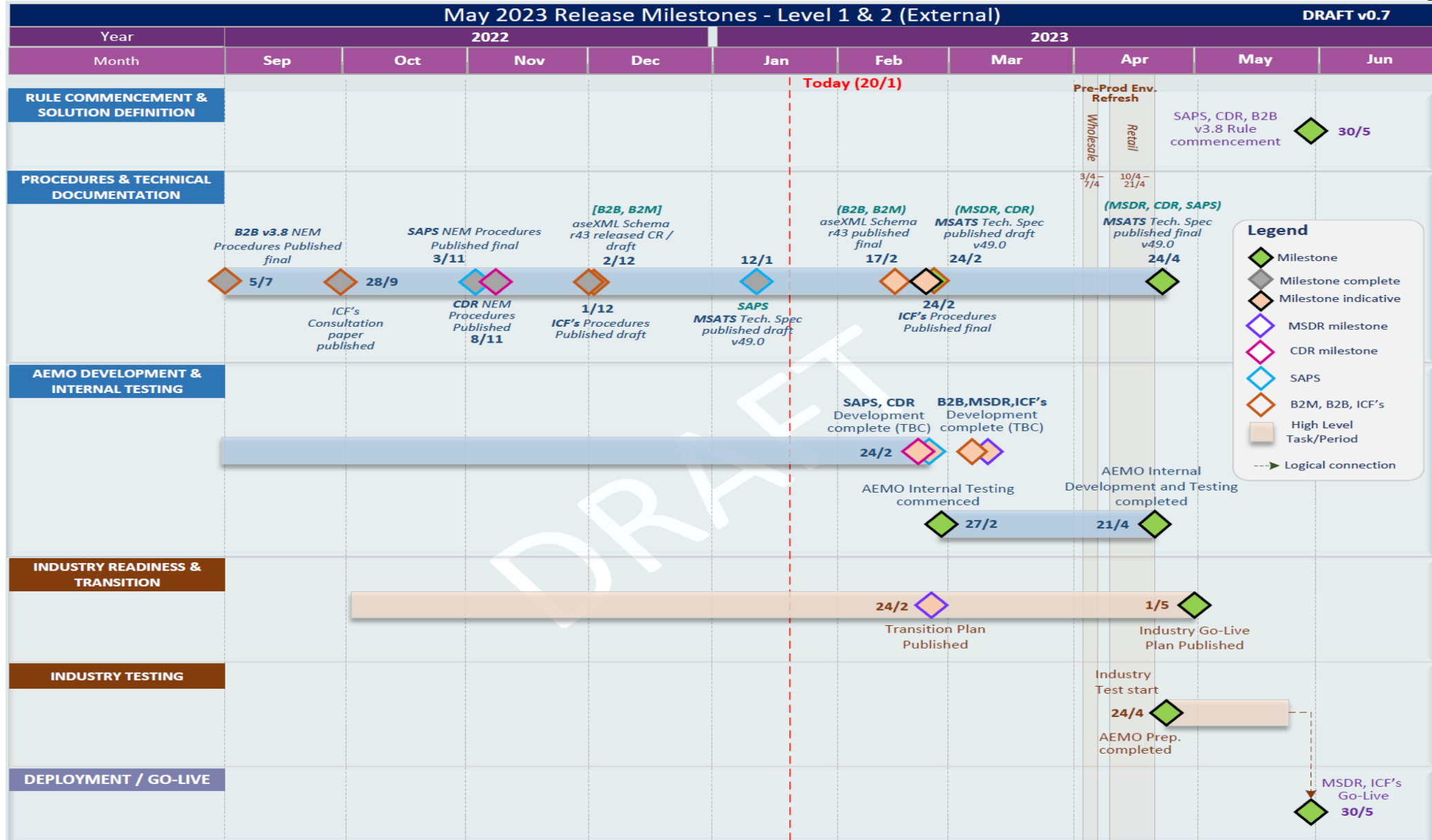
ALL

LNSP

FRMPS

LNSP/FRMP

Pre Prod Refresh



Testing for 2023

The next ITFG will be held in February and will cover:

- Overview of proposed Releases for the second half of 2023.
- Recommended testing for releases in the second half of the year.
- Update on the invitation testing for the may release.

Upcoming Engagements

For enquiries about the NEM2025 program more broadly:
NEM2025@aemo.com.au

November						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

January						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Legend	
Coordination forums	
NEM2025 Program Consultative Forum	
NEM2025 Executive Forum (Q1/Q2 2023)	
Reform Delivery Committee	
Reform Delivery Committee - Collab W.	
Implementation Forum	
Electricity Wholesale Consultative Forum	
Electricity Retail Consultative Forum	
Initiative specific meetings/consult's	
IESS Working Group - last meeting	
MT PASA	
Frequency Performance Payments	
Constraints Formulation Guidelines consultation	
Fast Frequency Response (TBC)	
Other	
National Public Holiday	
State/Territory Public Holiday	
AEMO Offices Christmas Shutdown	
Metering Industry Briefing	

Questions

