

5MS and GS Readiness Working Group – Meeting Notes

MEETING: Readiness Working Group
 DATE: Monday, 16 November 2020
 TIME: 10:00 AM – 12:00 PM
 LOCATION: WebEx

Attendees

Attendee	Organisation	Location
Greg Minney	AEMO (Chair)	Remote - WebEx
Anne-Marie McCague	AEMO	Remote - WebEx
Austin Tan	AEMO	Remote - WebEx
Blaine Miner	AEMO	Remote - WebEx
Carol Bosnjak	AEMO	Remote - WebEx
Graeme Windley	AEMO	Remote - WebEx
Ian Devaney	AEMO	Remote - WebEx
Jim Agelopoulos	AEMO	Remote - WebEx
Mark Hillaby	AEMO	Remote - WebEx
Paul Lyttle	AEMO	Remote - WebEx
Simon Tu	AEMO	Remote - WebEx
Tui Grant	AEMO	Remote - WebEx
Adrian Honey	TasNetworks	Remote - WebEx
Andrew Steer	Gentrack	Remote - WebEx
Alex Polonetskiy	Ausgrid	Remote - WebEx
Andrew Lenga	ENGIE	Remote - WebEx
Andrew Peart	AGL Energy	Remote - WebEx
Andrew Wilkins	SA Water	Remote - WebEx
Annett Reitmann	AGL Energy	Remote - WebEx
Arif Syarifuddin	Powercor	Remote - WebEx
Audrey Follett	Snowy Hydro	Remote - WebEx
Ben Johnson	ERM Power	Remote - WebEx
Brendan Twiddy	Origin Energy	Remote - WebEx
Chantal Wright	Origin Energy	Remote - WebEx
Chris Leffler	AGL Energy	Remote - WebEx
Christophe Bechia	Red Energy	Remote - WebEx
Con Michailides	AusNet Services	Remote - WebEx
Craig Eadie	Aurora Energy	Remote - WebEx
Damien Banky	AGL	Remote - WebEx
Dan Hiller	Meridian Energy	Remote - WebEx
Dannii Upham	Energex	Remote - WebEx
David McKenzie	Flow Power	Remote - WebEx

David Rundell	Alcoa	Remote - WebEx
David Woods	SAPN	Remote - WebEx
Dean Knight	Powerlink	Remote - WebEx
Dino Ou	Endeavour Energy	Remote - WebEx
Eileen Hays	Snowy Hydro	Remote - WebEx
Elizabeth Keogh	Stanwell	Remote - WebEx
Fergus Stuart	Origin Energy	Remote - WebEx
Gail Mitchell	AGL Energy	Remote - WebEx
Greg Fawcett	ENGIE	Remote - WebEx
Grant Ross	Alinta Energy	Remote - WebEx
Greg Szot	CitiPower / Powercor	Remote - WebEx
Helen Rickards	Essential Energy	Remote - WebEx
Helen Vassos	PLUS ES	Remote - WebEx
Ingrid Farah	Ergon Retail	Remote - WebEx
Jack Friel	United Energy	Remote - WebEx
Jaya Mukherjee	Alinta Energy	Remote - WebEx
Jayendra	Insight Power	Remote - WebEx
Jeff Roberts	Evoenergy	Remote - WebEx
Jenny Mastello	Energy Queensland	Remote - WebEx
Joe Milazzo	Evo Energy	Remote - WebEx
John Weston	TBC	Remote - WebEx
Jon Ham	Energy Australia	Remote - WebEx
Karan Mengi	EnergyAustralia	Remote - WebEx
Karel Mallinson	Powerlink	Remote - WebEx
Keshava	Alinta Energy	Remote - WebEx
Kevin Boutchard	Aurora Energy	Remote - WebEx
Luke Garrett	Evoenergy	Remote - WebEx
Mac Leung	Nucleus3	Remote - WebEx
Marina Bakh	Jemena	Remote - WebEx
Mark Lee	Momentum Energy	Remote - WebEx
Mark Reid	Red / Lumo	Remote - WebEx
Martin Andonovski	Energy Queensland	Remote - WebEx
Meenal Srivastava	TBC	Remote - WebEx
Michael Flynn	Stanwell	Remote - WebEx
Mahdi Maleki	AusNet Services	Remote - WebEx
Natalie Junge	Infigen	Remote - WebEx
Nick Gustafsson	Red Energy	Remote - WebEx
Neville Lewis	AusNet Services	Remote - WebEx
Owen Self	Stanwell	Remote - WebEx
Paul Greenwood	Vector	Remote - WebEx
Prabpreet Calais	AEMC	Remote - WebEx
Rajiv Balasubramanian	Jemena	Remote - WebEx

Ramesh Khadka	Electranet	Remote - WebEx
Rob Wilson	Jemena	Remote - WebEx
Ron Dittman	CitiPower	Remote - WebEx
Rossi Mangano	TBC	Remote - WebEx
Sandra Ho	Snowy Hydro	Remote - WebEx
Shane Murray	Arrow Energy	Remote - WebEx
Sivaprakash Sivan	AusNet Services	Remote - WebEx
Soham Roy Chaudhuri	Alinta Energy	Remote - WebEx
Steve Blair	Essential Energy	Remote - WebEx
Steve Smith	Energex	Remote - WebEx
Stephen Wilson	Aurora	Remote - WebEx
Subhra Sekhar Kar	AGL Energy	Remote - WebEx
Suraj	IntelliHUB	Remote - WebEx
Tessie Sato	Alinta Energy	Remote - WebEx
Tilin Yi	EnergyAustralia	Remote - WebEx
Tim Lloyd	Essential Energy	Remote - WebEx
Victor Sanchez	Infigen	Remote - WebEx
Vidhya Uthaman	Infigen	Remote - WebEx
Warren Van Wyk	IntelliHUB	Remote - WebEx
Wayne Turner	Ausgrid	Remote - WebEx
Wilmund Foong	United Energy	Remote - WebEx

1. Welcome, Introduction, Attendance and Apologies – G. Minney (slide 1-5)

AEMO noted that the meeting was being recorded for the purposes of preparing meeting notes and requested for dial-in attendees to email 5ms@aemo.com.au for inclusion on the attendees list.

2. Minutes and Actions from Previous Meeting – A. McCague (slide 6 - 7)

The actions from meeting RWG #16 have been reviewed and updated. Please refer to the meeting pack and list below for more details.

3. 5MS Program Update – G. Minney (slide 8 – 12)

AEMO provided an update on the AEMO program timeline, noting that all the upcoming milestones are on track, however delivery pressures remain. The testing program and AEMO internal readiness preparation activities are in full flight.

Upcoming program milestones include the commencement of testing of the dispatch platform, delivery of the retail go-live plan, and industry testing of the retail MDM platform.

AEMO confirmed that the proposed shift in the deployment date for the settlements platform will be going ahead, with the new settlements platform going live on 19 April 2021.

4. Procedures Update – S. Tu (slide 13 - 15)

AEMO presented an update on the procedure consultations related to 5MS/GS, noting that there has been no changes from the previous update.

AEMO noted that there will be updates to NCONUML NMI class codes through a B2B schema change after R40. This change will be discussed at the ICF AEMO will keep the RWG informed of the release timing for this change, and relevant impacts to the 5MS program.

More information can be found on slides 14 and 15 of the meeting pack.

Action 17.4.1: AEMO to confirm with RWG timing and 5MS impact of NCONUML NMI class codes related changes in the schema

5. Testing Update – T. Grant (16 - 19)

AEMO provided an update on the testing program, and reminded MDPs to test MDMT files against eMDM prior to Retail platform implementation to ensure compliance with validation routines.

In response to participant queries, AEMO:

- confirmed that the pre-prod environment for the eMDM will be available only after 1 February 2021
- noted that performance issues in staging are due to the platform, and is currently being addressed
- noted that participants will not have upgrade to the new R39 schema to access the new B2B functionality
- confirmed that during the MSATS pre-prod outage period for data refresh, the staging environment will still be available
- confirmed that there are no test formal testing scenarios for the dispatch and settlements pre-prod release, however the environment will be available for industry testing.

AEMO presented the 5MS staging environment defects that were identified, and presented an update on the statuses and actions. More information can be found on slides 17 to 20 of the meeting pack.

6. Industry Readiness Reporting, Round 4 – A. Tan, G. Minney (slide 20 – 26)

AEMO provided a summary of the results from the fourth round of readiness reporting, noting that the industry is generally on track. AEMO noted that it is following up with MPs and MCs that have not responded to essential metering criteria.

AEMO raised emerging participant risks that were identified from readiness reporting. More details are available on slides 23 to 25 of the meeting pack.

Regarding the risk of inaccurate UFE information due to cross boundary meters are not appropriately configured by the transition end dates. One participant noted that they are currently in discussions with AEMO to clarify the cross boundary meter requirements, and noted that the materiality of the risk will be clearer after the issue of the Cross Boundary Guidelines which is expected to be published on 20 November. AEMO to establish with DNSPs the extent that cross boundary meters will be compliant by 1 October 2021, and any potential industry impacts of non-compliance.

In response to participant queries:

- AEMO noted that at the December PCF there will be a discussion on WDR and Customer Switching readiness reporting.
- AEMO noted that the 5MS dispatch and bidding, settlements and metering platforms will be deployed before the commencement date, therefore from a AEMO 5MS program perspective, majority of deployment activity would have been completed before the Customer Switching go-live date of 1 October 2021.
- AEMO noted that no major interdependencies or risks have been identified arising from the 5MS Market Trial and testing for Customer Switching happening over the same time period.
- Customer switching updates will be deployed in the R39 schema, and is now available in the staging environment.

AEMO noted that a number of MPs have not performed a data cleanse of the meter installation type code in MSATS by the MTP transition end date. MPs that have not performed this activity should provide further details when responding to the fifth readiness reporting survey.

AEMO noted that the next round of readiness reporting will commence on Tuesday 17 November 2020, with survey responses due by COB Thursday 26 November 2020.

Action 17.6.1: AEMO to establish with DNSPs the extent that cross boundary meters will be compliant by 1 October 2021, and any potential industry impacts of non-compliance.

7. Industry Readiness Reporting, Review – A. Tan (slide 27 – 29)

AEMO proposed a number of updates to future readiness reporting, proposing that future reports will focus on summary reporting focusing on emerging trends, risks and issues. The current report format will still continue to be available in the report appendices.

The RWG agreed that considering the industry is now focused on delivery and implementation of 5MS and GS, the level of participant's program establishment will not be tracked in future readiness surveys. AEMO will removed these questions from the readiness reporting questionnaire.

One participant noted that the 5MS impacts of other regulatory change happening in October 2021 (i.e. Customer Switching, WDR) should be tracked through readiness reporting. AEMO noted that a proposed approach will be presented at the next RWG.

Action 17.7.1: AEMO to remove questions related to 5MS and GS program establishment from readiness surveys

Action 17.7.2: AEMO to consider how to incorporate monitoring of the impacts to 5MS from other regulatory change happening in October 2021 (i.e. Customer Switching, WDR).

8. Dispatch / Bidding Update – I. Devaney (slide 30 – 34)

AEMO provided an update on the bidding and dispatch platform, noting that the staging environment is currently deployed, and pre-prod will be available on 30 November 2020.

AEMO noted that a new version of the technical specifications is available.

In response to participant queries:

AEMO clarified that details of the P5MIN tables are not included in the 5MS section of the technical specifications because this function is not one required by the 5MS rules.

- AEMO clarified that there is no defined list of testing scenarios will be provided to the industry. Each company is expected to organise its own testing approach.

More details are available on slides 31 to 34 meeting pack.

9. Settlements Update – M. Hillaby (slide 35 - 38)

AEMO presented the timelines and supported functionalities, associated to the Settlements platform, noting that the production deployment date has been updated to 19 April 2021.

In response to participant queries:

- AEMO noted it will confirm with a participant the latest version of the EMMS technical specifications
- AEMO confirmed that the pre-production platform will perform 30 minute settlement until 5 July 2021. AEMO will consider updating the diagram on slide 36 for clarity, including updating the diagram legend to remove the reference to '1 October 2021'

AEMO also noted that the SQL production environment build, certification activities, migration activities and UAT are underway and on track.

Action 17.9.1: AEMO to update settlements staging, pre-production and production timelines diagram legend

10. Retail / Metering readiness – J. Agelopoulos, P. Lyttle, S. Tu (slides 39 – 45)

AEMO presented the staging, pre-production and production timelines for the retail platform, noting that there has been no changes to the previously communicated timelines.

AEMO noted that the MSATS technical specifications will be updated to separate the documentation of functionality released on 9 March 2021 from functionality released on 1 October 2021. AEMO also noted that the MSATS user guide is expected to be finalised over the next few months.

AEMO presented an update on the aseXML schema, noting that during AEMO system integration testing a defect was identified in the R39 aseXML schema. The R39 schema will be patched and replaced by the R39_p1 schema. Participants that have downloaded the R39 version will need to replace it with the R39_p1 version once final approval has been received. More details are available on slide 42 of the meeting pack.

In response to participant queries, AEMO clarified that:

- the go live for R39_p1 is 9 March 2021
- from a B2B perspective participants will still remain on the current schema

AEMO provided an update relating to the delivery of Tier 2 manually read metering data to Local Retailers after Global Settlements Rule Commencement on 01-May-22, noting that the GS Rule does not consider this issue. Local Retailers were advised to consider the materiality of this issue, and take remedial action in the form of a Rule change, or identify processes to overcome the meter data delivery issue.

AEMO noted that changes to the MSATS technical specifications will be introduced to distinguish between functions available at the MDM platform go-live on 9 March 2021, 5MS commencement on 1 October 2021, and GS commencement on 1 May 2022. More information is available on slides 44 and 45 of the meeting pack.

In response to a participant query, AEMO noted that other industry programs such as WDR and Customer Switching are considering the use of the staging environment. Confirmation will be provided to the working groups and forums.

11. Retail Platform Go-live Plan – G. Minney (slide 46 - 47)

AEMO presented the areas to be addressed on the draft Retail industry go-live plan, and noted that the plan will be published on Friday 20 November 2020 for next round of industry feedback.

12. Forward Plan and Other Business – G. Minney (slide 48 - 50)

AEMO presented the topics that will be presented at the next RWG, and the proposed TFG/SWG agenda. Attendees were thanked for their attendance and advised of future in-session RWG meetings.

Further information on the 5MS program, and a calendar of all meeting and forum dates can be found via the following link: <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>.

Item	Topic	Action required	Responsible	By
11.3.1	Readiness Reporting	AEMO to consider providing additional guidance alongside readiness reporting survey questions	AEMO	Completed
11.3.2	Readiness Reporting	AEMO to include latest MTP with readiness reporting survey	AEMO	Completed
11.3.3	Readiness Reporting	AEMO and RWG to consider alternative ways of communicating readiness reporting survey results	AEMO / RWG	Completed
11.4.1	Proposed milestone changes	AEMO to update charts on proposed AEMO system deployment milestone changes	AEMO	Completed
11.4.2	Proposed milestone changes	AEMO to consider extending the 30 minute settlement trial so that it can be commenced before December 2020	AEMO	Completed
11.4.3	Proposed milestone changes	AEMO to investigate any impacts on Recipient created tax invoices (RCTI) and provide feedback to or seek further info from the RWG	AEMO	Completed
11.4.4	Proposed milestone changes	RWG to provide feedback on impact of settlements 'like-for-like' delivery, including impacts on RM 16 and RM 27	RWG	Completed
11.4.5	Proposed milestone changes	AEMO to confirm if there are any changes to the format of settlement reports that are used by participants for settlement reconciliation purposes (e.g. RM 16 and RM27)	AEMO	Completed
11.4.6	Proposed milestone changes	AEMO to update table in slide 27 to clarify that MDFF acceptance relates to metering data files (not settlement files)	AEMO	Completed
11.4.7	Proposed milestone changes	AEMO to provide explanation of how 5-min bilateral testing will be supported	AEMO	Completed
11.4.8	Proposed milestone changes	RWG to provide feedback in response template on impact of MDM milestone change and proposed deployment milestone changes for dispatch and settlements	RWG	Completed
11.6.1	Proposed 12-month deferral	AEMO to update Gantt to reflect NCONUML datastream activation	AEMO	Completed
11.6.2	Proposed 12-month deferral	RWG to provide information on how AEMO would support a multi-speed transition (some participants continuing to current timeline, some participants deferring to proposed timeline)	RWG	Completed
11.6.3	Proposed 12-month deferral	AEMO capture and manage the risk of a multi-speed transition (some participants continuing to current timeline, some participants deferring to proposed timeline) in the 5MS industry risks and issues register	AEMO	Completed

11.6.4	Proposed 12-month deferral	AEMO to consolidate multi-speed transition feedback and provide to RWG	AEMO	Completed
11.6.5	Proposed 12-month deferral	AEMO to provide clarification on the impact to the MMS data model version 5 under the proposed 12-month deferral scenario	AEMO	Wed 3 Jun
11.6.6	Proposed 12-month deferral	RWG to provide feedback in response template on proposed transition and testing approach under the proposed 12-month deferral scenario	RWG	Completed
11.7.1	“Minimum criteria” and 5MS go/no-go decisions	RWG to provide feedback on proposed ‘minimum criteria’ for commencement	RWG	Completed
11.7.2	“Minimum criteria” and 5MS go/no-go decisions	AEMO to publish final contingency plan, considering RWG feedback on ‘minimum criteria’	AEMO	Completed
11.8.1	Bidding transition plan	RWG to provide feedback on bidding transition approach	RWG	Completed
11.8.2	Bidding transition plan	AEMO to confirm whether FCAS bidding is out of scope	AEMO	Completed
11.8.3	Bidding transition plan	AEMO to discuss bidding transition approach with the Dispatch Focus Group	AEMO	Completed
12.6.1	Working groups	RWG to provide feedback on proposal for RWG to be expanded to include SWG members, and for the working group to take an end-to-end systems and readiness view.	RWG	Completed
12.7.1	Industry testing	AEMO to update industry testing slides with clarifications	AEMO	Completed
12.7.2	Industry testing	AEMO to provide more details on the testing scope (e.g. test objective, key participants, key scenarios)	AEMO	Completed
12.7.3	Industry testing	RWG to provide feedback on their testing requirements for Dispatch, Settlement and Retail systems in pre-production	RWG	Completed
12.8.1	Readiness reporting	RWG to provide feedback on the readiness reporting approach if there is a delay to the 5MS and GS commencement dates	RWG	Completed
12.8.2	Readiness reporting	RWG to provide feedback on the proposed bar chart format for readiness reporting results	RWG	Completed
12.8.3	Readiness reporting	RWG to provide suggestions on any changes to the readiness reporting plan	RWG	Completed

12.8.4	Readiness reporting	AEMO and the RWG to consider how readiness reporting results can be used to consider if the industry is tracking to plan for 5MS and GS	RWG / AEMO	Completed
14.5.1	Regulatory Roadmap	AEMO to circulate regulatory roadmap workshop slide pack to RWG	AEMO	Completed
14.6.1	Retail Procedures	AEMO to add details of any aseXML schema impacts to the AEMO Retail Systems Impact for a Procedure issue.	AEMO	Completed
14.7.1	Transition Risks	RWG to consider their organisation's exposure to the risk of a 'big bang' delivery of 5min metering data in Production i.e. waiting until 5MS commencement to deliver/receive 5min metering data for the first time in Production.	RWG	Completed
14.7.2	Readiness Reporting	RWG to provide feedback on proposed approach to track if industry is on track for 5MS and GS commencements	RWG	Completed
14.11.1	Transition Approach	AEMO to include transition diagrams in the functionality matrix document	AEMO	Completed
14.12.1	Metering Transition Plan	RWG to provide feedback on the proposed changes to the MTP, and inform AEMO if a more restrictive or flexible transition period is preferred for MSATs Standing Data Creation and Maintenance activities	RWG	Completed
14.13.1	RM Reports	AEMO to confirm if Participants will receive push reports if there is no data missing	AEMO	Completed
14.13.2	GLOPOOL Updates	AEMO to confirm the timeframes and the approach for the transition of GLOPOOL	AEMO	Mon 14 Sep
14.14.1	Retail Platform Go-live Plan	RWG to provide feedback on the proposed high level structure of the Retail platform go-live plan	RWG	Completed
15.3.1	AEMO Data Model	RWG to identify existing wholesale representative for the Market Systems User Group (MSUG) and contact 5MS mailbox if there is no existing representative	RWG	Completed
15.3.2	Settlements Platform	RWG to provide feedback on the proposed settlements platform go-live date of 19 April 2021, including any impacts to participants' programs, testing requirements, and any suggested mitigations	RWG	Completed
15.7.1	Testing	RWG to inform AEMO if their organisation is able to assist AEMO with preparing the testing approach, or executing formal invitation testing of the retail platform	RWG	Completed

15.7.2	Testing	RWG to provide a list and description of any required testing that cannot be carried out in 5MS Staging, is unacceptably complicated by the requirement to re-point from one environment to another, and cannot wait until the functionality has been deployed into the pre-production environment	RWG	Completed
15.7.3	Testing	AEMO to update the Industry Risks and Issues Register with the mitigation measures agreed at the RWG	AEMO	Completed
15.12.1	RM20 Report	RWG to provide feedback on proposed simplification to the RM20 PPS Report	RWG	Completed
15.13.1	Cutover Focus Group	RWG to nominate Cutover Focus Group members	RWG	Completed
16.9.1	Global Settlement	AEMO to provide RWG with implementation approach, timeframes and testing approach of Global Settlement changes (e.g. LR to GLOOPOOL transition).	AEMO	Completed
16.9.2	Global Settlement	AEMO will confirm considerations for the provision of Tier 2 accumulation meter data to LRs post GS go live	AEMO	Completed
16.11.1	Transition Focus Group	AEMO to organise a separate focus group session to discuss the potential system impacts associated to the anticipated volume of MTP related CATS CR transactions and notifications.	AEMO	Completed
16.12.1	Retail platform industry go-live plan	RWG to provide feedback on the Retail platform industry go-live plan	RWG	Completed
16.13.1	Readiness reporting	AEMO to make a recommendation to the PCF regarding if 5MS readiness reporting should incorporate considerations involving customer switching and WDR.	AEMO	Completed
17.4.1	Procedural updates	AEMO to confirm with RWG timing and 5MS impact of NCONUML NMI class codes related changes in the schema	AEMO	Mon 4 Dec
17.6.1	Cross boundary meters	AEMO to establish with DNSPs the extent that cross boundary meters will be compliant by 1 October 2021, and any potential industry impacts of non-compliance.	AEMO	Mon 4 Dec
17.7.1	Readiness reporting	AEMO to remove questions related to 5MS and GS program establishment from readiness surveys	AEMO	Mon 4 Dec

17.7.2	Readiness reporting	AEMO to consider how to incorporate monitoring of the impacts to 5MS from other regulatory change happening in October 2021 (i.e. Customer Switching, WDR).	AEMO	Mon 4 Dec
17.9.1	Settlements platform timelines	AEMO to update settlements staging, pre-production and production timelines diagram legend	AEMO	Mon 4 Dec