

5MS & GS Systems Working Group (SWG) meeting notes

Meeting SWG #23
Date Wednesday, 17 June 2020
Time 10:00 – 13:00
Location Webex

Attendees

Please let 5MS@aemo.com.au if there is an error or omission with the attendees list.

ATTENDEE	ORGANISATION	LOCATION
Graeme Windley	AEMO	WebEx
Anne-Marie McCague	AEMO	WebEx
Blaine Miner	AEMO	WebEx
Greg Minney	AEMO	WebEx
Ian Devaney	AEMO	WebEx
Jim Agelopoulos	AEMO	WebEx
Mark Hillaby	AEMO	WebEx
Naomi Byrnes	AEMO	WebEx
Paul Lyttle	AEMO	WebEx
Pierre Fromager	AEMO	WebEx
Simon Tu	AEMO	WebEx
Tom Butterworth	AEMO	WebEx
Tui Grant	AEMO	WebEx
Liz Bernhardt	AEMO	WebEx
Carole Bosnjak	AEMO	WebEx

Alex Alexander	AEMO	
Annett Reitmann	AGL	WebEx
Chris Leffler	AGL	WebEx
Jocelyn Morris	Arrow Energy	WebEx
Craig Eadie	Aurora Energy	WebEx
Kevin Boutchard	Aurora Energy	WebEx
Alex Polonetskiy	Ausgrid	WebEx
Trent Smith	Brave Energy	WebEx
Dino Ou	Endeavor Energy	WebEx
Nicole Bright	Energex	WebEx
Trish Cone	Energex	WebEx
Jon Ham	Energy Australia	WebEx
Roy Utomo	Energy Australia	WebEx
Tilin Yi	Energy Australia	WebEx
James Hutt	Energy One	WebEx
Joseph Giddings	Energy One	WebEx
Andrew Lenga	Engie	WebEx
Drew Pass	Engie	WebEx
Greg Fawcett	Engie	WebEx
Stewart Bryce	ERM Power	WebEx
Adam Dubojski	Essential Energy	WebEx
Andrew Steer	Gentrack	WebEx
Jarrah Rijswijk	Hydro Tas	WebEx
Victor Sanchez	Infigen Energy	WebEx
Jayendra Weerawardana	Insightpower	WebEx
Tejas Vadera	Jemena	WebEx
Marina Bakh	Jemena	WebEx
Matthew Mullen	Jemena	WebEx

Rob Wilson	Jemena	WebEx
Dan Hillier	Meridian	WebEx
Steve Smith	Metering Dynamics	WebEx
Mark Lee	Momentum Energy	WebEx
Marian Vasjuta	Origin Energy	WebEx
Greg McLeod	Origin Energy	WebEx
Yvonne Tuckett	Origin Energy	WebEx
Brendan Twiddy	Origin Energy	WebEx
Christophe Bechia	Red Energy	WebEx
Nick Gustafsson	Red Energy	WebEx
Sandra Ho	Snowy Hydro	WebEx
Audrey Follett	Snowy Hydro	WebEx
Angela Sheehy	Stanwell	WebEx
Elizabeth Byrne	Stanwell	WebEx
Owen Self	Stanwell	WebEx
Adrian Honey	TasNetworks	WebEx
jaricm		WebEx

Preliminary Matters

1. **Welcome** – G. Windley

Attendees were welcomed to the #23 Systems Working Group (SWG). It was requested for participants on Webex or phone to message or email 5ms@aemo.com.au for inclusion on the list of attendees.

2. **Actions Update** –AM. McCague (slides 4 - 5)

The meeting notes for the previous SWG held on 20 May 2020 were confirmed. The actions from meeting #22 have been reviewed and updated. Please refer to the meeting pack and list below for more details.

3. **Program Update** – G. Windley (slides 6 - 11)

AEMO provided a program update as set out in slide 7.

AEMO confirmed that the Settlements and Bidding Go-Live dates would remain 01-Apr-21.

4. **Pre-Prod & Environment Questions** – Multiple presenters (slides 12 – 21)

AEMO provided responses to questions that were raised at the end of the last SWG by Stanwell as set out in the slides.

Q: When will B2B be available in pre-prod?

A: Aim is to have B2B available in advance of 01-Feb-21, in either 5MS Staging or updated in Pre-Prod. AEMO will reply to the SWG when ready.

Q: Will AEMO consider putting in the MDM release into Pre-prod as early as 01-Dec-20?

A: Yes, we are considering deploying the MDM release as early as 01-Dec-20, however AEMO will need to ensure the product is ready at that point. No decision will be made before the 31 August 2020 Retail Delivery milestone, and the preference is to use the 5MS Staging environment where possible for testing.

AEMO asked is deploying the MDM release into the staging environment earlier would meet participant requirements for testing. One participant responded that it could, but further consideration would be needed before they could confirm.

In relation to slide 15, the following Q&A took place:

Dispatch

Q: What does "emulate" mean in practical terms?

A: If a participant chooses to send 5-minute bids prior to the 5MS commencement date, they must emulate 30-minute bids. This means that for a 30-minute period, each 5-minute interval must be identical i.e. the six 5-minute bids in a 30-minute period are equivalent to one 30-minute bid.

Participants can continue to submit 30-minute bids until the 5MS Commencement Date. The system will convert 30-minute bids into six identical 5-minute bids (and store the latter in 5-minute tables). Participants can switch to using 5-minute bids at any point during the transitional period. AEMO suggests that once participants switch to 5-minute bidding, they do not return to 30-minute bidding as this has a risk of creating confusion (as to which is the 'latest' bid) *within participants own systems*. However, the AEMO systems are capable of dealing with participants switching between 30-minute and 5-minute bidding.

Q: Can participants roll back to 30-minute bidding if a 5-minute go-live with internal systems didn't go well (as a risk mitigation strategy)?

A: In principle, and currently, there is no impediment to participants rolling back their systems to 30-min bidding before the market go live (currently 1 July 2021). The risk of confusion, mentioned before, needs to be understood. Any additional risks (to the market) are being investigated and will be explored through the RWG if they cannot be eliminated (by checking for the condition).

Settlements

AEMO confirmed that regardless of the outcome on the AEMC consultation on the proposed 12-month deferral, there would be no change to the delivery timeframes that AEMO has set. If a 12-month deferral is approved, the transition period (currently between 1 April 2021 and 1 July 2021) will simply be extended by 12 months.

5-minute capability will be deployed into the Pre-prod environment as per the schedule, however, because the Pre-prod is used for BAU activities and other programs, releases to Pre-prod and activation of various functionality may need to be reviewed. Changes that are due for release to Prod are usually only put in Pre-prod about 4 weeks before the Prod release. The timing of this activation will be agreed via the RWG.

For Settlements, the strategy is to provide all the functionality, for the transition period and the end-state 5MS solution, in one package. The different functions are then activated by triggers, either in configuration flags or by dates (e.g. the 5MS commencement date). This is how AEMO can release the software according to schedule and not activate the functionality until required. For example, the code for UFE inclusion in the settlements calculation will be deployed in Pre-prod and Prod as scheduled, but the calculations will be limited to the data in the system, and AEMO notes Pre-Prod will only be refreshed with Production data.

AEMO confirmed that the 5MS and GS capability will still be available for market and participant testing in the case of a 12-month deferral as discussed with the RWG. AEMO is reviewing the possibility of reinforcing the 5MS Staging Environment so that participants will be able to test 5MS and GS capability to the extent as Pre-Prod allows, with mocked-up 5-min data, up until the market go live date.

It was acknowledged that, in the scenario where a 12-month deferral is approved, not having an environment available where participants can test 5 Minute and Global Settlement capability during the extended transition period prior to their deployment is a risk. As above, one mitigation measure is the reinforcement of the 5MS Staging Environment during this period.

Action 23.4.1: AEMO to add the risk of participants not having an appropriate environment to test capability to the Industry Risks and Issues Register if a 12-month deferral is approved.

Retail

Q: It says "2-3 items related to CR Processing and NMI Standing Data changes that will only be available in Pre-Prod one month prior to 5MS and GS Production Go-Live dates respectively". One example is provided. Could you detail in full what these 2-3 items are? Could you please elaborate into why these 2-3 items are excluded from Pre-Prod until one month prior to the go live date? Is there an estimated date participants will be supplied with Market replication notices CR processing changes? Can we get a listing of all those items that will be moved out? Is this part of the MTP?

A: The items that are not being delivered relate to restrictions on participants and data. Example stopping LRs from Objecting and receiving Notifications. Also some validation around CNDS registration.

Q: Does this mean that these excluded items will also be excluded in the MDM prod version? Will the 2-3 excluded items from pre-prod be excluded when the MDM is implemented in prod in Mar 2021?

A: Yes, these changes will not be available when MDM goes into production as the implementation of these changes will stop participants performing their market obligations until the 5MS Rule start date.

Q: Could AEMO take an action to provide more detail on what will be excluded and the timing on when these excluded items will be available in pre-prod and prod?

A: Yes, action taken.

Action 23.4.2: AEMO to provide more detail on what will be excluded from Pre-Prod and the timing on when these excluded items will be available in Pre-Prod and Prod (to be merged with Action 23.16.1).

Q: Could AEMO provide clarity on when the UFE tests will be available and why they wouldn't be available.

A: UFE testing will be supported for both Retail and Settlement streams with consolidated scenarios in the 5MS Market Trial. For individual participant testing of UFE components in staging, the Settlement aspect will be delivered with manufactured data. However, the testing of the Retail UFE reports in staging will likely require coordination with industry for the input of data and the execution of MSATS/MDM Settlement runs that feed data into the UFE Reports. AEMO is to provide an update within the detail of Action 23.4.2.

Q: Pre-prod will be used for other program deployments. Will the other market changes be available in Staging?

A: Pre-prod will always reflect what is available in Production, or about to be deployed in Production. We are looking into how we could have other market changes in the Staging environment.

It was noted that, if a 12-month deferral is approved, a risk should be raised to capture the risk that other market changes may not be reflected in the 5MS Staging Environment.

Action 23.4.3: AEMO to add the risk the 5MS Staging Environment not reflecting other market changes during the 12-month transitional period to the Industry Risks and Issues Register if a 12-month deferral is approved.

AEMO explained how Bidding was able to provide both 30 and 5-minute functionality at the same time, demonstrating that this is not affected by the proposed deferral.

5. Industry Testing Working Group Update – T. Grant (slides 22-23)

AEMO provided an update on the discussions at the ITWG as set out in the slides. It was noted that little feedback was received from participants on the recommended testing approach for platform deployments. This will be discussed again at the upcoming ITWG on 24-Jun-20 with the intention of receiving more feedback.

6. Readiness Working Group Update – G. Minney (slides 25 - 27)

AEMO provided an update on RWG #12 conducted on 10-Jun-20 as set out on slide 26 and an update on the activities that are being undertaken for Industry Readiness Reporting as per slide 27, including to survey participants for program intentions following release of the deferral rule change decision

7. Procedures Update – S. Tu (Slides 28 - 30)

AEMO provided a procedures update as per the slides.

Q: will any of these items be part of the MDM Go Live

A: AEMO to take as an action item to redevelop the '5MS/GS Procedures update' slide to highlight the functional impacts to the 5MS systems stream for each ERCF and B2B Working Group 5MS/GS-related procedure change.

Q: When will we see these in Staging given that the drop will be 31 August 2020, but the consultations are not final?

A: AEMO has built and will be deploying functionality into Staging with working assumption that the Procedure changes will be approved as described in the table.

Action 23.7.1: AEMO to confirm that all the items on the Procedure table on slide 29 of SWG#23 will be available in the 5MS Staging Environment from 31-Aug-20 and update the slide with the system functionality that is going into different environments.

Q: Will TNI2 cross-boundary meters be pushed downstream to all participants?

A: TNI2 will be added to the new schema version R39. The TNI2 field will only be available to participants that have a Market Relationship to a Cross Boundary Connection point. The new schema version r39 will provide the ability for the TNI2 value to be reported to participants when the value has been populated. AEMO will populate the TNI2 value where advised/required, associated participants will have the TNI2 values included in the relevant outputs where populated.

Q: Is "Obligation for MC to provide updated or substitution data in the cases of theft or fraud" likely to change the UFE calculation?

A: there are no changes to the way UFE is calculated. This is additional data that will change the amount of data that will be available from participants and is expected to change the outcome of the UFE calculation. The more data included in the calculation the more accurate the UFE result.

Action 23.7.2: AEMO to redevelop the '5MS/GS Procedures update' slide to highlight the functional impacts to the 5MS systems stream for each ERCF and B2B Working Group 5MS/GS-related procedure change.

8. 5MS Stakeholder Engagement Update – AM. McCague (slides 31 – 38)

A summary of the feedback provided from the SWG through the quarterly Stakeholder Engagement Survey was provided as per the slides.

A proposal to combine the SWG and RWG was presented. Six participants expressed their support.

Action 23.8.1: SWG to liaise with internal RWG reps and provide feedback on AEMO proposal to combine SWG and RWG by 26-Jun-20.

9. Forward meeting plan – G. Windley (slides 39 - 41)

AEMO noted that the next SWG #24 meeting is scheduled to be the same week as the joint PCF and RWG workshop on the results on the AEMC consultation on the proposed 12-month deferral. It was proposed that the SWG be cancelled and that the SWG be invited to the joint workshop. Focus Groups will be arranged if technical topics arise that should not be delayed until August. No objections to the proposal were received.

10. Dispatch Stream Update – I. Devaney (slides 42 - 44)

AEMO provided a Dispatch Stream update as set out in the slides.

11. Settlements stream update – M. Hillaby (slide 45 - 47)

AEMO provided a Settlements Stream update as set out in the slides.

12. Retail stream update – J. Agelopoulos (slides 48 – 50)

AEMO provided a Retail Stream update as set out in the slides.

13. Retail Staging Release Drop 2 - June 2020 – S. Tu (slides 51 - 53)

AEMO confirmed the functionality available in Retail drop 2 in Staging which was completed 15-Jun-20.

14. B2M MTRD .ac1 and .ack Schema versions – S. Tu (slides 54 - 55)

An updated was provided as per slide 55.

Recipients preferred schema for MTRDs are specified in the B2B Browser Transforms and Protocol screen.

For B2B MTRDs the Recipient is never privy to the schema version that the Initiator is on as the ehub is acting as the layer of abstraction, AEMO therefore transforms the initiating participant a positive Acknowledgement in the initiating participant's preferred schema version.

The 5MS project wishes to highlight that for B2M MTRD as AEMO is the recipient, the eHub knows exactly what schema version the initiators message is in, and by sending the Acknowledgement in the same version as the initiating transaction message we can be sure that initiator can support this transaction. AEMO shall send to the initiating participant B2M MTRD Hub Acknowledgements, Negative Acknowledgement, and Positive Acknowledgement in the same version of the schema as the received Message

15. B2M MTRD and B2B Stop Files – S. Tu (slides 56 - 58)

An updated was provided as per slides.

Recap

Use Case for MTRDs, B2M MTRD for NEM settlements and TUoS billing, B2B MTRD: B2B Retail, Network and other Market Participant activities. B2M MTRD for NEM settlements should not be conflated with B2B message flow.

There are B2B and B2M Stopfiles, B2B Stopfile - are to protect Participant Mkt systems and to notify initiating registered participants that a peer is experiencing system issues, stopping the ability to receive messages to stop them being overwhelmed. B2M Stopfile - are to protect AEMOs Mkt systems. One of the points where the procedural use case and technical consideration of the platform cross over is on the topic of Stopfiles

Clear distinction between B2M MTRD and B2B MTRD for the purpose of stopfiles. B2M MTRD messages will not count to the B2B stopfile count, in fact B2M MTRD will not be subject to a stopfile. The use case to 'protect' a Mkt system can be met for B2M by limiting the number of delivered messages to 100. We don't want to stop participants B2B and B2M mkt systems due to an issue with one.

Q: Clarification requested that for B2M MTRD messages, these must be delivered to the B2B outbox file share

A: AEMO to confirm that this is described in the MSATS Technical Specification [Update from AEMO post meeting: Requirement is described [here](#) in 5.2.6 Submit B2M MTRD Meter Data Notifications via FTP. AEMO shall update this section to make this point unambiguous]

Q: If a Participant with a /B2B/Inbox participant file folder setup places a B2M MTRD in the /Inbox folder with the file be processed

A: AEMO to confirm that the behaviour [Update from AEMO post meeting: A B2B or B2M MTRD **must** be placed in the /B2B/Inbox folder to be processed by the batch handler]

Action 23.15.1: AEMO to clarify that for B2M MTRD messages, these must be delivered to the B2B outbox file share.

16. AOB

Stanwell provided a proposed approach to presenting the information needed by participants for the 5MS and GS capability including when each element is available in staging and in pre-prod.

Action 23.16.1: AEMO to develop spreadsheet providing detail on the functionality available in each drop into the 5MS Staging Environment and into Pre-production environment.

17. Meeting Close

Meeting closed at 13:00.

Action Log

Item	Status	Topic	Action	Owner	Due By	Comment
23.4.1	Open	Pre-Prod & Environment Questions	AEMO to add the risk of participants not having an appropriate environment to test capability to the Industry Risks and Issues Register if a 12-month deferral is approved.	AEMO	16/07/2020	This risk will be added after the decision from AEMC is received
23.4.2	Open	Pre-Prod & Environment Questions	AEMO to provide more detail on what will be excluded from Pre-Prod and the timing on when these excluded items will be available in Pre-Prod and Prod (to be merged with Action 23.16.1).	AEMO	31/07/2020	
23.4.3	Open	Pre-Prod & Environment Questions	AEMO to add the risk the 5MS Staging Environment not reflecting other market changes during the 12-month transitional period to the Industry Risks and Issues Register if a 12-month deferral is approved.	AEMO	16/07/2020	This risk will be added after the decision from AEMC is received
23.7.1	Open	Procedures Update	AEMO to confirm that all the items on the Procedure table on slide 29 of SWG#23 will be available in the 5MS Staging Environment from 31-Aug-20 and update the slide with the system functionality that is going into different environments.	AEMO	31/07/2020	
23.7.2	Open	Procedures Update	AEMO to redevelop the '5MS/GS Procedures update' slide to highlight the functional impacts to the 5MS systems stream for each ERCF and B2B Working Group 5MS/GS-related procedure change.	AEMO	17/08/2020	

Item	Status	Topic	Action	Owner	Due By	Comment
23.8.1	Open	5MS Stakeholder Engagement Update	SWG to liaise with internal RWG reps and provide feedback on AEMO proposal to combine SWG and RWG by 26-Jun-20.	SWG	26/07/2020	
23.15.1	Closed	B2M MTRD and B2B Stop Files	AEMO to clarify that for B2M MTRD messages, these must be delivered to the B2B outbox file share	AEMO	26/07/2020	<u>A B2B or B2M MTRD must be placed in the /B2B/Inbox folder to be processed by the batch handler. Requirement is described here in 5.2.6 Submit B2M MTRD Meter Data Notifications via FTP. AEMO shall update this section to make this point unambiguous</u>
23.16.1	Open	AOB	AEMO to develop spreadsheet providing detail on the functionality available in each drop into the 5MS Staging Environment and into Pre-production environment.	AEMO	31/07/2020	