

5MS Systems Working Group (SWG) Meeting Notes

MEETING: 10
 DATE: Monday, 20 May 2019
 TIME: 10:00 AM – 1:00 PM
 LOCATION: AEMO Offices Melbourne, Sydney and by Webex

ATTENDEES:

ATTENDEE	ORGANISATION	OFFICE
Malcolm Borschman	AEMO	Melbourne
Jim Agelopoulos	AEMO	Melbourne
Simon Tu	AEMO	Melbourne
Anette Reitmann	AGL	Melbourne
Greg Fawcett	Engie	Melbourne
Drew Pass	Engie	Melbourne
Varun Dewan	Engie	Melbourne
Tariq Pervaz	Red Energy	Melbourne
Suresh Maguluri	Hydro Tasmania	Melbourne
Jarrah Van Rijswijk	Hydro Tasmania	Melbourne
Monica Morona	AEMO	Sydney
Austin Tan	AEMO	Sydney
Alex Polonetskiy	Ausgrid	Sydney
Hamish McNeish	AEMO	Brisbane
Adam Dubojski	Essential Energy	Remote – Webex
Adrian Honey	Tas Networks	Remote – Webex
Andrew Steer	Gentrack	Remote – Webex
Divya Kapoor	Flow Power	Remote – Webex
Elizabeth Byrne	Stanwell Corporation	Remote – Webex
Justin Needham	SA Power Networks	Remote – Webex
Justin Wearne	Energetiq	Remote – Webex
Matt Thornley	Energy One	Remote – Webex
Marina Bakh	Jemena	Remote – Webex
Martin Vyhnalek	Origin Energy	Remote – Webex
Olivia Fleming	Origin Energy	Remote – Webex
Owen Self	Stanwell Corporation	Remote – Webex
Rahman Qazi	Endeavour Energy	Remote – Webex
Rajesh Hariharan	Origin Energy	Remote – Webex
Stewart Bryce	ERM Power	Remote – Webex
Steve Caruana	Energy One	Remote – Webex
Shane Basnaya		Remote – Webex
Snehal Jogiya	ERM Power	Remote – Webex
Yeyen Relingo	EnergyQ	Remote – Webex

Note: not all attendees joining by dial in may have been identified.

Preliminary Matters

1. Attendees were welcomed to Systems Working Group #10 (SWG). It was noted to attendees that the meeting would be recorded for the purpose of preparing meeting notes.

Matters for Noting

2. Minutes and Actions from last meeting – M. Borschman (Slides 3-5)

The minutes from meeting held 15 April were accepted. AEMO provided updates on all open items and the SWG discussed the outstanding actions as reflected in the attached table.

Action 10.2.1: Share notes from Reconciliation Support Workshop being held 22 May.

Systems Workstream Updates

3. Metering – J. Agelopoulos (Slides 6-9)

AEMO ran through changes made to System Tracking table to align deliverables to specific packages and procedures packages that are coming out.

Given feedback from the previous SWG, the MDFF and MDMF specifications will be updated as part of Metering Package 2 as they are closely related to the procedures. The dates in the SWG schedule have been updated to align to the procedures timeline.

The updated High Level Impact Assessment (HLIA) and the MDM File Format and Load Process Format Specification (Technical Specification) has been published.

The MDM File Format and Load Process Format (Technical Specification), which was previously defined as a Procedure, is being consulted as part of Metering Package 2. This document focuses on the MDFF file format and processing AEMO is introducing and will be released today and distributed to SWG members. Package 2 procedures are open for submissions until Friday 24 June.

The MSATS Release Schedule & Technical Specification will be published by 31 May 19 and the content released in this draft will be finalised by July 19. Some of these Technical Specifications may be reopened and updated again as part of the Metering Procedures Package 3. This may result in some of these Specifications released not being finalised to support participant Build activities until 30 Sep 19.

Stanwell queried how many Tech Specs will be impacted by 5MS/GS and if the documents could be highlighted as a tech spec as part of the update.

Action 10.3.1: Table will be edited to indicate documents that are technical specifications.

The Guide to AEMO e-Hub for the B2M via API functionality has being identified as a Guide for information purposes and not be classified as a Technical Specification document. Technical API changes covered in the Guide will be articulated in the MSATS Release Schedule & Technical Specification.

Stanwell enquired who the intended audience is for the Guide. AEMO advised that the Guide is planned for a technical audience. The Guide to AEMO e-Hub will cover all AEMO APIs (including B2B APIs already in production) and outline how participants can connect to these APIs.

AEMO addressed a query in regard to functionality and confirmed that it will be up to participants whether they continue to use the FTP protocol or start using the API protocol.

Stanwell recognises consultation is not required, but suggested a date be put against line item for release given concerns raised in PWG in regard to B2B knock on effect to procedural changes as a result of 5MS. AEMO advised that the line item will remain, but will refer to detail in MSATS Release and Technical Specification. The User Guide dates for the B2M via API line item will be amended to reflect that the User Guide will be released in August 19.

Jemena requested confirmation that it is not mandatory to switch to API, that FTPs can still be used. AEMO confirmed it is not mandatory to switch and that while no official date has been set, a target date of 2025 has been indicated to the PCF.

AEMO is releasing APIs that provide the ability to “Mack and Tack” the MDFF that is sent to the market.

Stanwell questioned how the final tech spec could be released when it is dependent on a package of procedures. AEMO agreed and advised that the dates need to be amended to align with 30 September 19. The schedule and diagram will be updated next month. Stanwell suggested to include in the meeting notes and remove the slide.

4. Dispatch and Operations – H.McNeish (Slides 10-13)

Following feedback in relation to a lack of clarity and confusion around Level 2 milestones and their relationship to tech specs, the table has been updated to reflect packages relating directly to Level 2 milestones. Changes are also underway to the SWG webpage to provide transparency.

Action 10.4.1: Based on feedback, AEMO will prepare a table to identify technical specification documentation clearly, the package they relate to and the content.

Due to related changes Operations is now bundled with Dispatch under the Dispatch stream.

Stanwell requested for notes to be added to slides to highlight what is being communicated, for the purpose of those dialling in or who are unable to attend. AEMO will consider this.

Origin enquired in regard to the data model if AEMO would be releasing further drafts and details on the schedule. AEMO confirmed the approach is to go through each of the functional areas and bring it all together to finalise the full data model.

AEMO is working through details on how it will be deployed in staging and agree that it is worth discussion within the group and will take on board that getting the scripts early or at the same time would be of benefit to their development processes. Stanwell supported this initiative.

5. Settlements – B. Rajan (Slides 14-17)

No updates with Settlements stream and timing as currently on track.

Reallocation is the first deliverable. The plan is to release the new web user interface in staging environment in November 19, pre-production in March 20 and production released in April 20. As previously discussed at the focus group and SWG, reallocation functionality will be released earlier than settlement functionality.

Data model for Settlements was addressed in Dispatch and Operations as these streams have merged.

Participants queried if there would be data model changes to the reallocation stream. AEMO advised data model changes to the reallocation system would be included in the early release with data model changes addressed in the tech spec and implemented in staging and pre-production. Details are yet to be finalised in regard to how release of the reallocation data model will be managed in relation to the full data model.

Participants requested for the presentation to provide more visibility in regard to which package is being delivered at what time. It was confirmed by AEMO that a new table structure, similar to other streams packages, will be distributed with the meeting notes.

No changes to the timeline. It reflects package drops as per the level 2 milestones. Remaining activities are on track with no changes from the previous update.

Stanwell queried if AEMO anticipates any further input to the timelines presented as result of the Reconciliation Support Workshop. AEMO responded that all aspects have been considered in terms of the timeline. The only change could be reports being provided in 5min and 30min, and feedback around the transition for settlements.

Matters for Discussion

6. SWG Webpage & Consultation Update – M. Morona & H. McNeish (Slides 19-22)

Monica Morona was introduced. Monica is new to the 5MS Stakeholder Team in a Stakeholder Engagement role. Monica explained how she is working with SWG as a priority to implement changes based on feedback received about webpages and to improve linkages between milestones and timelines. Feedback is welcome and the best way to contact Monica is via the 5MS mailbox 5ms@aemo.com.au.

AEMO provided a summary stakeholder engagement activities, the 5MS Meetings Calendar is currently up to date to June and the current focus to get the next 6 months mapped out. Distribution of the Fortnightly Consultation Update has resumed, advising on stakeholder consultations and providing links to additional information, relevant 5MS/GS activities and resources and being published to the website also. A Program newsletter can be expected from June that will provide a broader program update outlining program activities in more detail as we move into Readiness.

Stanwell provided feedback that website changes had been noted, and suggested AEMO consider a landscape view to reduce the amount of scrolling. AEMO noted the feedback and agreed that formatting needed to be addressed.

The Stakeholder Engagement Team is investigating the best way to deliver technical documentation updates for technical documents that are progressively updated. Given the feedback received AEMO will break pages down into more detail to eliminate the need for scrolling and ensure that consultations line up to the dispatch, metering and settlements slides presented today. AEMO will separate out a page for each of the three functional areas, each page outlining the technical documents, description of the content, final version due date and related milestones and comments.

Stanwell suggested that AEMO provide references to the chapters that have been updated and would be happy to assist in website discussions or review website designs.

Jemena queried whether the HLIA would sit under Technical Consultations or Technical Specifications. AEMO advised the HLIA will be published on the Technical Specifications page and will consider renaming the page to refer to technical documentation.

AEMO noted that the Stakeholder Engagement Plan will be updated, including a review of the small participant engagement approach.

7. 5MS Staging Environment – M. Borschman (Slides 23-26)

AEMO sought consultation from SWG representatives to confirm that the Staging environment is intended to help and enable participants to carry out testing as soon as possible, however there are limitations.

AEMO was asked when there will be a testing working group/readiness working group in place and advised that nominations have been called for. Greg Minney, the Readiness Stream Lead, is currently focussed on developing a broader understanding and strategy in relation to the testing working group and will present proposed strategy to the PCF.

The 5MS testing group will be the first line of support for the Staging environment.

Participants suggested it was worth noting a risk to market testing with the schedule indicating there is not be much time in pre-production for participants to complete full system integration test prior to market testing. AEMO agreed and advised that this risk has been considered, however when the RWG comes together dates will be revisited.

Stanwell enquired whether there are any interdependencies on functionality that will be released. AEMO confirmed that each stream will be done independently and at this stage dates are concrete.

Stanwell asked if functional limitations mean there will not be regression testing. AEMO plans to regression test and welcomes feedback. AEMO appreciates there may be things from a processing point of view that aren't required, but from a reconciliation point of view need to be. The staging environment requires more detail to outline what is provided and when.

AEMO reiterated the importance of thinking of the staging environment from a Readiness and Testing working group perspective, not just the Systems working group.

Stanwell enquired how many resources are planned to support the staging environment and testing phases. AEMO indicated that while it has not yet been stood up, there is likely to be one dedicated test lead and five business analysts to provide back up support during the execution window as required.

Jemena asked whether the staging environment would be available 24/7. AEMO confirmed the staging environment will be available 24/7, but any support would be during business hours. Market Trials will be performed formally out of pre-production. AEMO does not expect any coordinated testing out of 5MS staging. AEMO asked for participants could advise the environments they will require access to.

Other Business

8. Forward meeting plan – M. Borschman (Slides 28-31)

AEMO presented two-month view of the 5MS meeting calendar to outline current schedule of 5MS related meetings. The calendar will be updated and published on a regular basis. AEMO will ensure the link is live following updates to the website.

The next Systems Working Group meeting is scheduled for Monday, 17 June at 10am. There are two focus groups before then for the Reconciliation Support Workshop on 22 May and Metering and Systems Focus Group on 14 June.

9. General Questions – M. Borschman

Participant asked how participants can produce 5-minute historical data to forecast future 5-minute data and will profiles be available to create 5-minute data in an AEMO compatible way? AEMO advised there is no plan to produce profiles for all historic data. There is a spec released today in relation to Estimation Substitution which may be applicable.

Action 10.9.1: Historical data – AEMO to investigate and clarify with procedures team.

Red Lumo requested an indication as to how AEMO will handle possible changes (perhaps putting a change freeze in place) during the 18 months from when the tech specs will be finalised and delivery in production, given there are other projects progressing at the same time. AEMO is monitoring other programs and consultation around procedures and tech specs to understand cross interdependencies. AEMO is not anticipating reopening of a lot in the metering space or impact to the specifications from other areas. A forum for managing change has not yet been established though AEMO is engaged in conversations to explore a code freeze.

Stanwell, Ergon and Red Lumo agreed the focus has been on 5MS and queried what changes will be needed for Global Settlement, and if these discussions will need to be revisited under Global Settlement.

AEMO advised that Global Settlement has been considered and included in the Technical Specifications and in MSATS Technical Specification. Global Settlement changes that are needed have been included in the Metering Procedures for Package 2.

Action 10.9.2: Confirm with procedures group where details on Global Settlement are published for consultation.

Action 10.9.3: Add Global Settlement as a general item to agenda to discuss the specifics of system changes and the impact to Global Settlement.

Participant asked if Error Codes have been addressed. AEMO advised that error codes have been defined within MSATS and there is a table containing all error codes. AEMO will publish a list of error codes, however are unable to confirm a date at this time.

Action 10.9.4: AEMO will consider the approach and advise participants when error codes are proposed to be published.

Participant queried why CNDS needs to be populated if AEMO can manage loading of MDFF data without it being populated. AEMO informed that an interim solution is being planned, where CNDS is not required to be updated and AEMO will determine the net datastream based on what is in the MDFF file. This will be a topic for discussion at the upcoming Metering Focus Group.

Action 10.9.5: Present findings of Metering Focus Group discussion at next SWG.

Stanwell asked for clarification about Appendix A and information that participant should be noting. AEMO explained how Appendix A outlines two different options in regard to how participants would like to receive errors generated out of validation. AEMO requests that participants refer to their technical teams and advise AEMO on preferred method.

SA Power Networks requested confirmation whether information coming out today will outline how MDPs will communicate to other participants that a meter has changed interval length. AEMO confirmed this will be addressed in Service Level Procedure for MDPs published today.

The meeting closed at 12:33pm.

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>.

10. Update of Previous Action Points & New Actions Raised

Item	Topic	Action required	Responsible	By
SWG 9				
9.2.1	Matters for Noting – Item 7.9	AEMO to respond to sub-domain support for the API gateway.	Mal Borschman	Closed Every domain must be registered. System doesn't automatically support subdomains.
9.3.1	Retail Stream Update	Pushing out MSATS browser HLIA update to May.	Jim Agelopoulos / Mal Borschman	Closed Updated High Level Impact Assessment (HLIA) has been distributed and will be published on the webpage today.
9.7.1	Metering – Meter Data Delivery	AEMO to provide link to MSATS error codes	Simon Tu	Closed Have been provided in appendix for this pack. Questions to be addressed to 5MS.
9.7.2	Metering – Meter Data Delivery	AEMO to provide B2B Procedures link regarding the approach to handling error, event codes, free text explanations, etc., along with examples by 31 May	Simon Tu	Closed Have been provided in appendix for this pack. Questions to be addressed to 5MS.
9.7.3	Metering – Meter Data Delivery	Participant feedback regarding the proposed approach to revised MSATS error codes	Simon Tu	Closed Participant feedback requested by 31 May.
9.7.4	Metering – Meter Data Delivery	AEMO to confirm that MDMT “pull” function will be maintained	Simon Tu	Closed On participant request for this to be maintained as a “pull” report. Updated specification to be “push and pull” report.
9.7.5	Metering – Meter Data Delivery	Participant feedback required in regard to RM reports identified to be retired; are any of these reports utilised or business critical.	Simon Tu	Open Participant feedback requested by 31 May.

9.7.6	Metering – Meter Data Delivery	AEMO to provide clarification for reporting in the cutover period, where the reports go across the 30min and 5min intervals, will reports display data for both 48 and 288 intervals.	Greg Minney	Open Greg Minney will be leading the Readiness Workstream and working through strategy and approach documentation in regard to cutover. Dates will be publicised to the SWG when known.
9.7.7	Settlements – Reconciliation Support Workshop	AEMO to provide information on the proposed reconciliation support workshop in May 2019.	Austin Tan	Closed Email sent in relation to Support Reconciliation Workshop being held Wednesday 22 May.
9.9.1	General Questions	SWG members to provide feedback regarding SWG current and future engagement activities via 5ms@aemo.com.au .	Mal Borschman / Monica Morona	Closed Feedback received via SWG post-working group survey.
SWG 10				
10.2.1	Matters for Noting	Share notes from Reconciliation Support Workshop being held 22 May.	Monica Morona	Meeting notes available on the AEMO 5MS website – http://aemo.com.au/-/media/Files/Electricity/NEM/5MS/Program-Information/2019/Reconciliation-Support-Workshop.pptx
10.3.1	Systems Work Stream Updates - Metering	Table will be edited to indicate documents that are technical specifications.	Jim Agelopoulos	17 June 2019
10.4.1	Systems Work Stream Updates - Dispatch & Operations	Based on feedback, prepare table to identify technical specification documentation clearly, the package they relate to and the content.	Hamish McNeish	Addressed through SWG website update.

10.9.1	General Questions	Historical data – AEMO to investigate and clarify with procedures team.	Hamish McNeish	Metering Package 2 Metrology Part B contains a proposed estimation methodology that addresses this scenario. Package 2 first stage submissions are open until 24 June 2019 – http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement/Procedures-Workstream/Metering-package-2---MSATS-and-SLPs
10.9.2	General Questions	Confirm with procedures group where details on Global Settlement are published for consultation.	Blaine Miner	Global Settlements procedures changes are included in Metering Package 2. See above.
10.9.3	General Questions	Add Global Settlement as a general item to agenda to discuss the specifics of system changes and the impact to Global Settlement.	Hamish McNeish	17 June 2019
10.9.4	General Questions	AEMO will consider approach and advise participants when error codes are proposed to be published.	Jim Agelopoulos	17 June 2019
10.9.5	General Questions	Present findings of Metering Focus Group discussion at next SWG.	Blaine Miner	17 June 2019