5MS Systems Working Group (SWG) Meeting Notes

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| MEETING: | 4 |
| DATE: | Wednesday 21 November 2018 |
| TIME: | 9:30 AM - 1:00 pm |
| LOCATION: | AEMO Offices Melbourne, ~~Sydney~~, Brisbane, Adelaide and Video/Teleconference |

Attendees:

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| **Attendee** | **Organisation** | **Office** |
| Hamish McNeish | AEMO | Melbourne |
| Malcolm Borschman | AEMO | Melbourne |
| Pierre Fromager | AEMO | Dial In |
| Anette Reitmann | AGL | Melbourne |
| Arif Syarifuddin | Powercor | Melbourne |
| Chris Leffler | AGL | Melbourne |
| Enrico Buenaventura | Energy Australia | Melbourne |
| Jarrah Van Rijswijk | Hydor Tasmania | Melbourne |
| Solochana Vivekanandan | Red Energy | Melbourne |
| Tariq Pervaz | Red Energy | Melbourne |
| Yeyen Relingo | EQL | Brisbane |
| Adam Gritton | Stanwell | Brisbane |
| Adam Neilson | Stanwell | Brisbane |
| Tim Bellette | Stanwell | Brisbane |
| Carolyn Hope | Energy Qld | Brisbane |
| Stewart Bryce | ERM Power | Brisbane |
| Adam Power | Brave Energy | Dial In |
| Dino Ou | Endeavour Energy | Dial In |
| Divya Kapoor | Flow Power | Dial In |
| Ingrid Farah | Ergon Energy | Dial In |
| Joseph Giddings | Energy One | Dial In |
| Kevin Bourchard | Aurora Energy | Dial In |
| Lok Jackson | Hydro Tasmania | Dial In |
| Neville Lewis | Select Data | Dial In |
| Richard Dumont | Ausnet Sevice | Dial In |
| Sarah Grundy | Brave Energy | Dial In |
| Suresh Maguluri | Hydro Tasmania | Dial In |
| Paul Willacy | Aurora Energy | Dial In |

1. **ACTIONS FROM LAST MEETING – Hamish McNeish (AEMO)**
* Actions 2.2, 2.4 were closed
* At participants request AEMO will be introducing a single Action Register to track all actions across 5MS.
1. **SYSTEMS WORKSTREAM – Hamish McNeish (AEMO)**
* Metering
* internal solution decision expected by end Dec-18
* Design and development expected to start in Feb-19
* Dispatch – design and development expected to start in Jan-19
* Settlement – schedule provided, design has started, development is expected to start in Jan-19
* Power System Operations – no change
1. **METERING FOCUS GROUP DEBRIEF – Hamish McNeish (AEMO)**
* A participant raised a query on whether adopting class based NMI profiling (as done in the UK) had been considered.

AEMO said this had not been proposed or discussed to date, and was best raised to the procedures stream via the 5MS email address.

1. **DISPATCH FOCUS GROUP DEBRIEF – Pierre Fromager (AEMO)**
* There was good support for the approach of publishing P5 in chunks, i.e. 1st hour published then 2nd hour published.
* A concern was raised about dealing with an API call failure for a bidding submission. Two viable options were discussed:

Option 1. A submission requires 2 API calls. The first call is for a unique TransactionId, the second is the submission using this TransactionId. If there is a timeouts or API failure the submission status can always be checked using the TransactionId in another API call.

Option 2. The participant provides a reference with the submission that can then be used to check the submission status in the event of a timeout or failure in another API call.

AEMO will discuss and come back with a position on this.

* Bandwidth was raised as a concern, Action 1.6 has already been raised for AEMO to investigate this.
1. **HIGH LEVEL IMPACT ASSESSMENT (HLIA) – Hamish McNeish (AEMO)**
* The draft HLIA was discussed and an example was walked through.

AEMO requested feedback on the structure, format and level of information from participants. (The document was emailed out after the meeting).

1. **GENERAL QUESTIONS – Hamish McNeish (AEMO)**
* A point was made for AEMO to be mindful of the EMMS MSUG meetings to avoid SWG conflicts.
* A query was raised whther AEMO had considered the Data Model future for databases beyond MS SQL and Oracle, such as Postgress.
* A query was raised to confirm the B2M APIs will be included as part of 5MS. AEMO to confirm.
1. **FORWARD MEETING PLAN – Hamish McNeish (AEMO)**

Future SWG meetings for 2018;

* Mon 17 December

Future SWG meetings for 2019;

* TBC January
* 18 February

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>.

Actions arising from SWG meeting on 21 November 2018.

The item number format is <SWG Meeting number>:<Incremental number>.

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| **Item** | **Topic** | **Action required** | **Responsible** | **By** |
| 4.1 | API call timeout | AEMO to provide how the APIs will support dealing with a submission that gets no valid response e.g. in the case of a timeout | AEMO | 17/12/2018 |
| 4.2 | Data Model database support | AEMO to provide information on additional database support | AEMO | 17/12/2018 |
| 4.3 | Avoid clashes with MSUG | AEMO to ensure no clashes with planned MSUGs | AEMO | 17/12/2018 |
| 4.4 | B2M APIs | AEMO to confirm if B2M APIs will be included in 5MS | AEMO | 17/12/2018 |

Previous Actions:

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| **Item** | **Topic** | **Action required** | **Responsible** | **By** |
| ~~1.1~~ | ~~SWG Terms of Reference~~ | ~~Participants to provide AEMO with feedback on the draft PWG Terms or Reference. Email feedback to~~ ~~5ms@aemo.com.au~~ | ~~SWG Members~~ | ~~17/9/2018~~ |
| ~~1.2~~ | ~~SWG Terms of Reference~~ | ~~AEMO to finalise the SWG Terms of Reference~~ | ~~AEMO~~ | ~~24/9/2018~~ |
| ~~1.3~~ | ~~AEMO System Change~~ | ~~This will be raised at the Executive Forum (EF). AEMO to report back on outcomes.~~ | ~~AEMO~~ | ~~17/9/2018~~ |
| ~~1.4~~ | ~~Sandbox options~~ | ~~AEMO to evaluate the option of having an external test system that more closely resembles pre-production, as opposed to a cutdown Sandbox.~~ | ~~AEMO~~ | ~~24/9/2018~~ |
| ~~1.5~~ | ~~Sandbox dashboard~~ | ~~AEMO to evaluate having a mechanism such as a dashboard to provide the status of the Sandbox environment. Allow viewing current defects etc…~~ | ~~AEMO~~ | ~~24/9/2018~~ |
| 1.6 | Participant bandwidth implications | AEMO to provide assessment on bandwidth/networking impacts.Update to be provided in December SWG. | AEMO | ~~24/9/2018~~17/12/2018 |
| ~~1.7~~ | ~~Architecture Diagrams~~ | ~~AEMO to add titles to the architecture diagrams~~ | ~~AEMO~~ | ~~17/9/2018~~ |
| ~~1.8~~ | ~~1 MB message limit~~ | ~~AEMO to provide more information and a recommended limit to discuss~~ | ~~AEMO~~ | ~~24/9/2018~~ |
| ~~1.9~~ | ~~13 months archiving~~ | ~~Could 6 months of data be stored online and 7 months offline being made available on demand? i.e. An web service request, and data is provided a number of hours later for a period of 3 days.~~~~There is the potential to look at value add services in this space. i.e. request files related to a message or transaction id.~~~~SWG members to consider this concept.~~ | ~~SWG Members~~ | ~~17/9/2018~~ |
| ~~1.10~~ | ~~Intervention Pricing~~ | ~~AEMO to come back on any impacts on intervention pricing~~ | ~~AEMO~~ | ~~17/9/2018~~ |
| ~~2.1~~ | ~~Dispatch delays~~ | ~~The concern about the delay in dispatch was raised again, which is aggrevated due to the increase in the number of intervention runs.~~~~AEMO to raise internally and provide feedback.~~ | ~~AEMO~~ | ~~17/10/2018~~ |
| ~~2.2~~ | ~~HLIA document~~ | ~~AEMO to provide a High Level Impact Assessment diagram outlining the identified systems impact~~ | ~~AEMO~~ | ~~17/10/2018~~ |
| ~~2.3~~ | ~~Focus Group Feedback~~ | ~~AEMO sought feedback on priority areas participants wanted to focus on. Participants to provide feedback.~~ | ~~SWG Members~~ | ~~17/10/2018~~ |
| ~~2.4~~ | ~~Profiling process explanation~~ | ~~AEMO to explain the profiling process for 5-minutes~~ | ~~AEMO~~ | ~~17/10/2018~~ |
| 2.5 | Retail 1MB file limit | AEMO requested participants to review their own systems for constraints or issues to support a 10 MB raw file limit and provide feedback. | SWG Members | 21/11/2018 |
| 3.1 | Bidding JSON format usage for APIs | AEMO to include bidding APIs in focus group discussion, date to be scheduled. | AEMO | 17/12/2018 |
| 3.2 | Bidding data model transition | AEMO to include in focus group transition discussion, date to be scheduled. | AEMO | 17/12/2018 |
| 3.3 | Bidding data model tables | AEMO to include in data model focus group discussion, date to be scheduled. | AEMO | 17/12/2018 |