5MS Systems Working Group (SWG) Meeting Notes

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| MEETING: | 2 |
| DATE: | Monday 17 September 2018 |
| TIME: | 09:30 AM - 1:00pm |
| LOCATION: | AEMO Offices Melbourne, Sydney, Brisbane, Adelaide and Video/Teleconference |

Attendees:

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| **Attendee** | **Organisation** | **Office** |
| Hamish McNeish | AEMO | Brisbane |
| Satheesh Kumar | AEMO | Melbourne |
| Pierre Fromager | AEMO | Sydney |
| Alex Polonetskiy | Plus ES | Sydney |
| Martin Vyhnalek | Origin Energy | Sydney |
| Vidhya Uthaman | Infigen Energy | Sydney |
| Anette Reitmann | AGL | Melbourne |
| Akash Sembey | Simply Energy | Melbourne |
| Bebin Thomas | Engie | Melbourne |
| Chris Leffler | AGL | Melbourne |
| Enrico Buenaventura | Energy Australia | Melbourne |
| Jarrah Van Rijswijk | Hydro Tasmania | Melbourne |
| Mahdi Maleki | AusNet Services | Melbourne |
| Paul Sampson | Acumen Metering | Melbourne |
| Peter Docking | Hydro Tasmania | Melbourne |
| Pratham Bhandari | Jemena | Melbourne |
| Solochana Vivekanandan | Red Energy | Melbourne |
| Tariq Pervaz | Red Energy | Melbourne |
| Mark Riley | AGL | Melbourne |
| Benn Blumenthal | CS Energy | Brisbane |
| Brian McKerr | CS Energy | Brisbane |
| Jackie Mayo | Metering Dynamics | Brisbane |
| Stewart Bryce | ERM Power | Brisbane |
| Wayne Baldwin | Intergen | Brisbane |
| Dino Ou | Endeavour Energy | Dial In |
| Divya Kapoor | Flow Power | Dial In |
| Ingrid Farah | Ergon Energy | Dial In |
| Joseph Giddings | Energy One | Dial In |
| Neville Lewis | Select Data | Dial In |
| Richard Dumont | Ausnet Sevice | Dial In |
| Suresh Maguluri | Hydro Tasmania | Dial In |
| Paul Willacy | Aurora Energy | Dial In |

1. **ACTIONS FROM LAST MEETING – Hamish McNeish (AEMO)**

* Actions 1.1, 1.2, 1.3, 1.7 and 1.9 were closed.
* The concern about the delay in dispatch was raised again, which is aggravated due to the increase in the number of intervention runs. AEMO to raise internally (**Action 2.1**).

1. **SYSTEMS WORKSTREAM – Hamish McNeish (AEMO)**

* Metering - With the joint focus group on retail transition (which included MDFF) planned SWG engagement items on MDFF were pushed back.
* Dispatch – A transition joint working group was added – bid format and API’s were pushed back.

1. **RETAIL SYSTEM IMPACT CHANGES – Hamish McNeish (AEMO)**

* Change in timeline to retire MDFF
* Agreement for AEMO to provide a High-Level Impact Assessment diagram outlining the identified systems impact (**Action 2.2)**.
* Participants requested that this outlines the potential impact on participants systems.

1. **PROPOSED RETAIL FOCUS GROUPS – Hamish McNeish (AEMO)**

* No specific changes to AEMO’s proposal
* AEMO sought feedback on priority areas participants wanted to focus on. Participants to provide feedback (**Action 2.3**).

1. **B2M API ARCHITECTURE – Satheesh Kumar (AEMO)**

* Participants agreed that managing the API authorisations via URM (self-manage) is efficient compared to the manual process of souring the API keys from AEMO
* Participant requested if additional capabilities can be enabled via B2M Sync Services. AEMO clarified that the scope is limited to the functionalities mentioned in the SWG slide pack (Slide#17) but will enable additional functionalities in future
* Request was made to illustrate the profiling process with an example (**Action 2.4**)

1. **RETAIL TRANSITION – Satheesh Kumar (AEMO)**

* AEMO provided a summary from the joint focus group.

*The minute notes have now been issued for this meeting.*

This covered:

* AEMO’s planned approach to profiling 15 and 30-minute data
* Unit of Measure precision – AEMO to store energy as kWh to 4 d.p.
* AEMO use of B2M (MDFF format) – strong push to align to B2B
* Extending NEM12 to support 5-minute data – existing format can support 5-minute data (use existing record 200, can have mixed metering interval data in a file).
* Accepting non-settlement data – push to minimise standing data changes
* Transition to 5-minute metering – Indication no participants will be ready by 1 July 2020. Proposal to all align to being ready for 31-Mar-2021.
* File size and communication capabilities – proposal of 10 MB.
* AEMO requested participants to review their own systems for constraints or issues to support a 10 MB raw file limit (**Action 2.5**).
* Participants queried being able to reject if not ready to handle 5-minute meter data. Is this an option?
* Consider a one-way notification if the FRMP can’t handle it.
* May be important to know the expected interval of provided meter data.
* AEMO to provide link to Guide to B2B API’s.
* Participants indicated that it would be good to have a load stress test as part of transition.

1. **WHOLESALE SYSTEM IMPACT CHANGES – Hamish McNeish (AEMO)**

* None identified
* P5 still under review by AEMO

1. **PROPOSED WHOLESALE FOCUS GROUPS – Hamish McNeish (AEMO)**

* No specific changes to AEMO’s proposal
* AEMO sought feedback on priority areas participants wanted to focus on. Participants to provide feedback (**Action 2.3**).

1. **BIDS AND OFFERS API ARCHITECTURE – Satheesh Kumar (AEMO)**

* A participant queried what happens when an API returns and error or timeout – so left in an unknown state.
* AEMO confirmed a successful response would validate that the offer was successfully validated and loaded into AEMO’s systems.
* AEMO proposed that the response would also be in a JSON format for both API’s and FTP. This means a change from the current CSV format.

1. **GENERAL QUESTIONS – Hamish McNeish (AEMO)**

* Participants queried aseXML changes and what the timeline of this is.

1. **FORWARD MEETING PLAN – Hamish McNeish (AEMO)**

Attendees were thanked for their attendance and advised of future SWG meetings for 2018;

* Wed 17 October
* Wed 21 November
* Mon 17 December

Focus Groups:

* Joint PWG/SWG – Dispatch Transition - Mon 22 October

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 17 September 2018.

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

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| **Item** | **Topic** | **Action required** | **Responsible** | **By** |
| 2.1 | Dispatch delays | The concern about the delay in dispatch was raised again, which is aggravated 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 Sample | Using a worked example, explain AEMO’s profiling process (30-min settlements & 5-min settlements) with meter reads of varying interval length (30-min, 15-min & 5-min) | 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 |

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~~](mailto: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 | AEMO | 24/9/2018 |
| ~~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. A 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~~ |