5MS Systems Working Group (SWG) Meeting Notes

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| MEETING: | 3 |
| DATE: | Tuesday 30 October 2018 |
| TIME: | 2:00 PM - 5:00pm |
| LOCATION: | AEMO Offices Melbourne, Sydney, Brisbane, Adelaide and Video/Teleconference |

Attendees:

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| **Attendee** | **Organisation** | **Office** |
| Hamish McNeish | AEMO | Brisbane |
| Pierre Fromager | AEMO | Sydney |
| Alex Polonetskiy | Plus ES | Sydney |
| Martin Vyhnalek | Origin Energy | Sydney |
| Vidhya Uthaman | Infigen Energy | Sydney |
| Victor Sanchez | Infigen Energy | Sydney |
| Samantha Sheperd | Origin | Sydney |
| Anette Reitmann | AGL | Melbourne |
| Arif Syarifuddin | Powercor | Melbourne |
| Akash Sembey | Simply Energy | Melbourne |
| Adrian Honey | Tas Networks | Melbourne |
| Bebin Thomas | Engie | Melbourne |
| Chris Leffler | AGL | Melbourne |
| Enrico Buenaventura | Energy Australia | Melbourne |
| Jarrah Van Rijswijk | Hydor Tasmania | Melbourne |
| Mahdi Maleki | AusNet Services | Melbourne |
| Nilesh Kevet | Jemena | Melbourne |
| Paul Sampson | Acumen Metering | Melbourne |
| Peter Docking | Hydro Tasmania | Melbourne |
| Pratham Bhandari | Jemena | Melbourne |
| Siew Kiat Tai | 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 |
| Alan Ford | Stanwell | Brisbane |
| Adam Neilson | Stanwell | Brisbane |
| Tim Bellette | Stanwell | Brisbane |
| Jackie Mayo | Metering Dynamics | Brisbane |
| Stewart Bryce | ERM Power | Brisbane |
| Adam Gritton | Stanwell | Brisbane |
| Wayne Baldwin | Intergen | 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 1.4, 1.5, 1.8, 1.9, 2.1, 2.3 were closed
* Action 2.5 – 1 MB file size
  + a participant indicated their system had issues supporting a 10 MB file size
  + the limit on all files (B2B and B2M) was queried
    - AEMO responded that this is the current implementation, however it is feasible that it could be just increased for meter data as an option

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

* Metering - focus groups moved to accommodate a focus on transition
* Dispatch - focus groups moved to accommodate a focus on transition
* Settlement – no change
* Power System Operations – no change

1. **METERING – Hamish McNeish (AEMO)**

* Planned metering focus group for 12 Nov
* MDFF format agreed for interval meter data, basic meter data format to be agreed

1. **DISPATCH AND PREDISPATCH – Hamish McNeish (AEMO)**

* Discussion of dispatch and pre-dispatch changes
* AEMO investigating options to extend 5-minute pre-dispatch

1. **BIDDING FORMAT – Hamish McNeish (AEMO)**

* Walkthrough of proposed JSON format
* A query was made for having APIs for each service type.
  + AEMO responded that at present based on the proposed JSON format only one submission API is proposed
  + It was noted that often Energy and FCAS bids are submitted together anyway
* Will JSON be versioned?
  + AEMO responded that the versioning is proposed to be managed at the API level. We will consider the need for a JSON version.
* The Version Number seems very large, Number(22)
  + AEMO reponded that this is based on the current data model definition and will review this. Numbers from 1 to 999 are currently supported.
* Support for sparse bidding was felt to offer low value.
* Partial bids were raised as having value
  + AEMO will refer this to the Dispatch focus group API discussion
* Being aple to access bid data over the APIs was valuable

1. **DATA MODEL CHANGES – Hamish McNeish (AEMO)**

* Walkthrough of proposed bidding data model changes
* Preferred approach was to add new bidding tables for 5-minutes (\*PEROFFER tables)
  + this was felt to be better for migration of existing systems
  + this also allows improvements to be made to the data types
  + using the same table is likely to cause transition problems, with potential PK violations, and data being a mix of 5 and 30-minute
  + this better supports submitting 30-minute bids then shifting to 5 and going back to 30 if required
* Bidding \*\_D tables were felt to offer limited value, these can be created based on a query across other data model tables.
  + AEMO will look to discontinue these tables

1. **BIDDING TRANSITION – Hamish McNeish (AEMO)**

* Walkthrough of proposed transition approach for bidding
* Support 5-minute bids from 1 April 2021
* 30-minute bids supported until 1 July 2021

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

* The meeting cut-off before these could be raised.

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

Future SWG meetings for 2018;

* Wed 21 November
* Mon 17 December

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 30 October 2018.

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

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| **Item** | **Topic** | **Action required** | **Responsible** | **By** |
| 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 |

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. 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 |