

5MS/GS Transition Focus Group #12:

Thursday 11th Feb 2021

WebEx only [details in calendar invitation]

****Please disconnect from your workplace VPN for the WebEx call****

**PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE PURPOSE OF
PREPARING MINUTES**

AEMO Competition Law Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

1. Which customers they will supply or market to
2. The price or other terms at which Participants will supply
3. Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
4. Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
5. Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

Agenda

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NO	INDICATIVE TIME	AGENDA ITEM	RESPONSIBLE
1	10:30 - 10:40	Welcome and introduction	Greg Minney
2	10:40 - 10:50	Previous Actions	Blaine Miner
3	10:50 - 11:10	Feedback from Industry re AEMO's proposed Go-live delays	Greg Minney
4	11:10 - 11:20	Upcoming MTP Activities	Blaine Miner
5	11:20 - 11:50	MTP CATS transaction volume management assumptions	Blaine Miner/Paul Lyttle
6	11:50 - 12:00	Next steps and general business	Greg Minney

Attendees (1/2)

Organisation	Attendee	Organisation	Attendee
AEMO	Greg Minney	ActewAGL	Collette Reedy
AEMO	Anne-Marie McCague	AusNet Services	Con Michailides
AEMO	Austin Tan	Energex	Dannii Upham
AEMO	Blaine Miner	Alcoa	David Rundell
AEMO	Elizabeth Bernhart	SA Power Networks	David Woods
AEMO	Paul Lyttle	Powerlink	Dean Knight
AEMO	Paul Lyttle	Energy Australia	Dennis Roman
TasNetworks	Adrian Honey	Snowy Hydro	Eileen Hayes
Energy Australia	Andrew Fooks	Basslink	Greg Mather
Essential Energy	Alison Davidson	CitiPower and Powercor	Greg Szot
TasNetworks	Audrey Follett	Essential Energy	Helen Rickards
Jemena	Chantal Wright	Ergon Energy	Ingrid Farah
Stanwell	Chris Reilly	Origin Energy	Mario Iogha
Red and Lumo Energy	Christophe Bechia	Mondo	Jay Summers
Yurika	Cindy Matthews	Evo Energy	Jeff Roberts

Attendees (2/2)

Organisation	Attendee	Organisation	Attendee
ActewAGL	Jessica Tran	Ergon and Energex Energy	Nicole Bright
TasNetworks	Joanna Ford	Vector Metering	Paul Greenwood
Evoenergy	Joe Milazzo	Jemena	Rajiv Kumar Balasubramanian
Energy Australia	Jon Ham	Mondo	Richard Metherell
Jemena	Joseph Lyttleton	Intellihub	Rob McNeur
Secure meters	Justin Stute	ERM Power	Rob Oshlack
Secure meters	Kam Vessali	Stanwell	Rossi Mangano
Powerlink	Karel Mallinson	Arrow Energy	Shane Murray
-	Kat T	-	Steele Dimmock
Secure Meters	Kerrye Bradford	Energy Queensland	Steve Blair
Aurora Energy	Kevin Boutchard	-	Tony Stone
Jemena	Leon Vilfand	CitiPower and Powercor	Trent Smith
PLUS ES	Linda Blackenbury	-	Trevor Carr
Red and Lumo Energy	Mark Reid	IntelliHUB	Warren Van Wyk
Infigen Energy	Natalie Junge	Ausgrid	Wayne Turner
Red and Lumo Energy	Nick Gustafsson		

Previous Actions

Blaine Miner

Previous Actions

#	Topic	Action	Owner	Comments
11.1	Metering rollout plans	AEMO to consider how to share rollout plans from consenting participants	AEMO	
11.2	Customer Switching	AEMO to investigate the possibility of circulating 5MS working group invitations to Customer Switching representative mailing list.	AEMO	AEMO does not hold a Customer Switching mailing list. Engagement for CS takes place through ERCF. Participants are welcome to forward 5MS materials to their CS reps or to email us at 5MS@aemo.com.au and sign reps up to the relevant working groups.
11.3	Metering rollout plans	AEMO to provide templates for net to register level datastream conversion plans, and LNSP NCONUML and cross boundary NMI creation plans	AEMO	Update to be provided at this meeting
11.4	Retail platform go-live	AEMO to update and issue the "AEMO 5MS Functional Deployment Matrix", in line with the new retail platform Option 1 go-live date	AEMO	Update to be provided at this meeting
11.5	Metering Transition Plan	AEMO to issue a version of the MTP that considers Option 2 of the retail platform go-live	AEMO	Completed – circulated 29 Jan
11.6	Read type code update	TFG to provide feedback on how the retail platform deferral impacts their ability to support the retention of the transition start date of 9 March 2021 for the application of a four character read type code	TFG	Summary of received feedback to be provided at this meeting
11.7	GLOPOOL update	TFG to provide feedback on the GLOPOOL update plan outline on slide 39, including comments on timeframes and if additional information is required	TFG	Summary of received feedback to be provided at this meeting

Notes (1/6)

- AEMO provided an overview of the actions and responses from the previous meeting.
- AEMO noted that AEMO does not hold a Customer Switching mailing list. Engagement for CS takes place through ERCF. Participants are welcome to forward 5MS materials to their CS reps or to email us at 5MS@aemo.com.au and sign reps up to the relevant working groups.
- AEMO noted that the consolidated metering rollout plan templates are currently being finalised and will be circulated by COB Friday 12 February. AEMO requested for participants not to amend the template in any way to facilitate the consolidation of templates.
- In response to a participant query, AEMO noted that:
 - The application of 'A' and 'D' codes are relevant to the 5MS program, the application of other codes will be managed by the MSDR working group
 - As per the Metering ICF Final Determination, published Dec 2020, 'The RegisterID is used to identify a data source that is obtained from the meter. A single meter may provide multiple data sources. If the RegisterID has a value as per the 'Datastream Suffix for Interval Metering Data' section of the NMI Procedure, then it must be the same as the Suffix field in the CATS_REGISTER_IDENTIFIER table.' "
- One retailer noted that the alignment between registerIDs and Suffixes had triggered volume stop limits in their systems. One MP noted that they have completed this activity, another MP noted that they will be transitioning over the next few months and expected moderate volumes.

Notes (2/6)

- AEMO noted that the updated functional deployment matrix will be circulated over the next few days
- AEMO noted that three participants have raised issues with the 9 March 2021 transition start date for the application of a four-character read type code
 - One participant noted that their systems will not be able to consume the code from March, and are working closely with their providers to mitigate any issues
 - One participant noted that their program timeline would suit a end of May update timeline, and also highlighted that participants they have talked to have different interpretations of how the code is updated
 - One participant noted that their program currently has a deployment date in late March, and therefore prefer a May transition start date. However as a contingency they are willing to work closely with the MDP.

Notes (3/6)

- AEMO to remove reference in MTP v1.7, A57b "Update Meter Read Type code with RWDA (if approved via AEMO consultation)"
- Citipower Powercor noted that their interpretation of the procedure is that meters that will be transitioning to 5-minute will require an update on the 4th character.
- AEMO noted that a final version of the MTP will be reissued at the end of next week, including a decision on the transition start date of the meter read type code replacement
- AEMO thanked the participants that provided feedback on the GLOPOOL update plan, noting that this will be considered and discussed in further detail at the next TFG

Feedback from Industry re AEMO's proposed Go-live delays

Greg Minney

Summary of feedback received to date

- Feedback received from 15 participants all in favour of May 31 go-live with March checkpoint
- No participant has identified a blocker with either date, but a number of participants have flagged the earlier date as preferred to provide additional time for participant testing and other readiness activities
- Earliest possible deployment to pre-prod would be well received
- Some Participants have requested that in the case where 31-May-21 becomes unfeasible, AEMO will consider going live as soon after the 31-May-21 as possible rather than reverting directly to Option 2 (21-Jun-21)
- MTP impacts understood, participants assessing changes to their programs and transition timings
- Clarity on checkpoint approach, criteria and timings to be provided to industry
- Participant concerns on impact to delivery and timing to other regulatory reforms
- Participant changes may be required to transition plans (timing and approach) to mitigate capacity concerns
- Approaches and environment support to conduct bi-lateral testing being evaluated by participants to support their planned timelines

Retail Go-Live Dates

- Confirmation of the Retail Go-Live dates and the Settlements Go-Live dates will be given at the 5MS Executive Forum on 11-Feb-21, with the pack being circulated on 08-Feb-21
- TFG will be provided with an update.

Notes (4/6)

- AEMO presented a summary of feedback from the industry regarding AEMO's proposed Go-live delays.

Upcoming MTP Activities

Blaine Miner

Upcoming MTP Activities

(Assumes Option 1 MDM Go-Live Dates)

Description	Date	Activity ID
MPs to provide progress and amendments to forward plans for Type 1-3, subset of 4 and 'known' cross boundary meters to AEMO	By 1 March 2021	A3a, A8a, A13a, A19a
MDPs to provide progress and amendments to forward plans for Type 4, 4A, VICAMI and Sample meters to AEMO	By 1 March 2021	A52a, A58a, A64a, A70a
MDPs to provide datastream conversion plans to convert Net datastreams to register level	By 1 March 2021	A32a, A37a, A42a
LNSPs to provide NMI Create plans for Cross Boundary and NCONUMLs to AEMO	By 1 March 2021	A95a, A99a
MPs to update the Meter Read Type code with RWDA or RWDD, as applicable	From 9 March 2021	A36b, A40b, A45b, A51a, A57b, A63b, A69b, A75b
MCs to ensure that details of the Inventory Table, calculation methodologies and Agreed Loads are agreed prior to implementation by relevant Registered Participants	By 31 March 2021	A87
MCs to provide visibility of the approach / timeframe for required meter replacement or reconfiguration for 'Unknown' Cross Boundary meters	By 31 March 2021	A23
Participants to establish agreements to allow the delivery of 5min metering data pre 1 Oct 2021 between NSP, Retailer, MDP and AEMO, as applicable	By 31 May 2021	A32, A37, A42, A47, A53, A59, A65, A71, A84, A88
AEMO to establish agreements with MDPs to allow the delivery of 5min metering data pre 1 Oct 2021 for B2M purposes	By 31 May 2021	A34, A39, A44, A49, A55, A61, A67, A73, A85, A91
MDPs to create/convert export and import Active (kWh) and Reactive (kVarh) energy datastreams, where applicable, in the CNDS table	From 31 May 2021	A36, A40, AA45, A51, A57, AA63, A69, A75
MDPs to deliver tier 1 basic meter metering data (Actuals, Subs and Forward Estimates) to AEMO	By 30 June 2021	A93

Consent to Distribute Roll-out Plans

Participant	Plans Previously Rec'd	Yes/No/ No Response
ActewAGL Dist.	No	No Response
Ausgrid	Yes	No Response
AusNet Services	Yes	No Response
CitiPower Powercor	Yes	Yes
ElectraNet	Yes	No Response
Intellihub	Yes	No
Jemena	Yes	No Response
Metropolis	No	No Response
Mondo	Yes	No

Participant	Plans Previously Rec'd	Yes/No/ No Response
Origin	Yes	No Response
Powerlink	Yes	No Response
Powermetric	No	No Response
PLUS ES	Yes	Yes
Secure Meters	Yes	No Response
TransGrid	Yes	No Response
United Energy	Yes	Yes
Vector	Yes	No
Yurika (MD)	Yes	Yes

Notes:

- Please let us know if your organisation's position is not correctly reflected in the table above
- Only aggregated monthly volumes are planned to be distributed to the RWG/TFG from consenting Participants only

Notes (5/6)

- AEMO presented an overview of upcoming MTP activities
- AEMO noted that the AEMO metering team just clarified that MDPs will not have to establish explicit agreements with AEMO to deliver 5-minute metering data via B2M after 21 June.
- AEMO presented a summary of participants that have consented to the distribution of roll-out plans.
- AEMO noted that the intention is to only share with the industry participant's monthly projected and actual volumes
- One Participant noted that they had previously submitted rollout plans, that had not been reflected in the chart. AEMO will confirm submissions in line with rollout plan updates due 1 March
- One participant noted that where plans are not to be shared with the TFG, it was requested that MPs work in good faith with their partners to share individually to assist with participants developing their own modelling.

MTP CATS Transaction Volume Management Assumptions

Blaine Miner & Paul Lyttle

Objective

- The objective of the analysis is to create a consolidated Industry view of indicative transaction volumes relating to the MTP activities
 - Detailed at a monthly level
 - Spanning from today to Dec 2022
- The analysis is being performed to:
 - Support Participant and AEMO system and general business impact assessments
 - Facilitate Participant to Participant engagements
 - Create appropriate inputs into the MSDR Data Transition working group

Scope

- In-scope considerations:
 - By 31 Aug 2021
 - Convert type 1-3, subset type 4, type 7 and existing cross boundary datastreams to register level
 - Update type 1-3, subset type 4 and existing cross boundary connection point ReadTypeCodes to 'A' (or 'D' where applicable)
 - Create NCONUML and 'new' Cross boundary NMLs, Registers and Datastreams
 - Update NMI Classification codes, where required
 - Create/activate Basic meter 1st tier datastreams
 - Update VIC TUoS datastreams from 1-4 to 'N'
 - By 30 Nov 2022
 - Update new and replacement type 4, 4A and VIC AMI meter ReadTypeCodes to 'A', where applicable
- Out-of-scope items:
 - MSDR standing data updates
 - Other standing data updates associated to:
 - Market reform initiatives
 - Non-market based initiatives
 - E.g. Participant based activities/initiatives

Required Participant Inputs

In-scope Item	Inputs Currently Being Received	Additional Inputs Required
Convert type 1-3, subset type 4, type 7 and existing cross boundary datastreams to register level		MDP conversion plans for Type 1-3, subset type 4, type 7 and existing cross boundary datastreams to register level
Update type 1-3, subset type 4, type 7 and existing cross boundary ReadTypeCodes to 'A' (or D where applicable)	MP Type 1-3 reconfiguration plans	MP Reconfiguration plans to also include subset type 4 and existing cross boundary connection points
Create NCONUML and 'new' Cross boundary NMIs, Registers and Datastreams		LNSP NCONUML and cross boundary NMI creation plans
Update NMI Classification codes, where required		TBD
Create/activate basic meter 1st tier datastreams	Participant information as requested	
Update VIC TUoS datastreams from 1-4 to 'N'	MDP Type 4, 4A and VIC AMI rollout plans	
Update new and replacement type 4, 4A and VIC AMI meter ReadTypeCodes to 'A', where applicable	MDP Type 4, 4A and VIC AMI rollout plans	

Tranche 1 and Tranche 2 Definitions

- Tranche 1
 - Meter types whose MTP activities are to be completed **by 1 Oct 2021**
 - Type 1-3
 - Subset of type 4 meters - TNI, Market Generator or SGA
 - Cross Boundary meters
 - Non-contestable unmetered loads
 - Type 7
- Tranche 2
 - Meter types whose MTP activities are to be completed by **1 Dec 2022**
 - New and Replacement Type 4 from 1 Dec 2018
 - New and Replacement Type 4A from 1 Dec 2019
 - New and Replacement VICAMI from 1 Dec 2018
 - New and Replacement Sample from 1 Dec 2018
- **Note**, as discussed previously:
 - Only MTP related transaction volume estimates have been included in this analysis i.e. assumptions regarding BAU and other initiative-based transaction volumes have not been included
 - TFG estimates will be provided to the MSDR Data Transition WG for their consideration

Transaction Volume Analysis - Current Assumptions and Inputs

Tranche	Category	Assumption(s)	Input(s)
1	Reconfiguration/ replacement of meters	<ul style="list-style-type: none"> Read Type Code updates to occur from 9 Mar 2021 RTCs to be updated as meters are reconfigured <ul style="list-style-type: none"> Noting that Meters reconfigured pre-9 March assumed to be updated in March One CR30xx CATS transaction per RTC update 	<ul style="list-style-type: none"> MC/MP rollout plans
1	Transition of meters to 5min metering data delivery	<ul style="list-style-type: none"> No CATS transactions required 	<ul style="list-style-type: none"> N/A
1	Conversion of Net to Register Level datastreams	<ul style="list-style-type: none"> Two CR40xx CATS transactions expected <ul style="list-style-type: none"> One to deactivate the Net datastream and one to active the register level datastreams 	<ul style="list-style-type: none"> MDP datastream conversion plans
1	Creation of NCONUML and Cross Boundary NMI	<ul style="list-style-type: none"> One-step NMI create process i.e. NMIs are created post new NMI Class Codes being deployed to Production Corresponding datastreams and registers are created within the same month as the NMI is planned to be created Three CATS transactions per NMI <ul style="list-style-type: none"> CR20xx to create the NMI CR40xx to create the datastream(s) CR30xx to create the Register(s) Assumes single CR25xx will not be used by Participants <ul style="list-style-type: none"> Is this a valid assumption? 	<ul style="list-style-type: none"> LNSP NCONUML and Cross Boundary NMI creation plans

Transaction Volume Analysis - Current Assumptions and Inputs

Tranche	Category	Assumption(s)	Input(s)
1	Activation of Basic meter datastreams	<ul style="list-style-type: none"> • Smooth transition between Jan and June 2021 with simple ramp up and ramp down assumptions • One CATS transaction per activation (CR40xx) 	<ul style="list-style-type: none"> • MSATS extracts
1	New NMI Classification code updates for existing NMIs	<ul style="list-style-type: none"> • Smooth transition between June and Aug 2021 • One CATS transaction per NMI update (CR50xx) 	<ul style="list-style-type: none"> • MSATS extracts

Transaction Volume Analysis - Current Assumptions and Inputs

Tranche	Category	Assumption(s)	Input(s)
2	Reconfiguration/ replacement of meters	<ul style="list-style-type: none"> Read Type Code updates to occur from 9 Mar 2021 RTCs to be updated as meters are reconfigured <ul style="list-style-type: none"> Noting that Meters reconfigured pre-9 March assumed to be updated in March One CR30xx CATS transaction per RTC update 	<ul style="list-style-type: none"> MDP rollout plans
2	Transition of meters to 5min metering data delivery	<ul style="list-style-type: none"> No CATS transactions required 	<ul style="list-style-type: none"> MDP rollout plans
2	Conversion of Net to Register Level datastreams	<ul style="list-style-type: none"> Two CR40xx CATS transactions expected <ul style="list-style-type: none"> One to deactivate the Net datastream and one to active the register level datastream 	<ul style="list-style-type: none"> MDP datastream conversion plans
2	Creation of residual NCONUML and Cross Boundary NMIs	<ul style="list-style-type: none"> One-step NMI create process i.e. NMIs are created post new NMI Class Codes being deployed to Production Corresponding datastreams and registers are created within the same month as the NMI is planned to be created Three CATS transactions per NMI <ul style="list-style-type: none"> CR20xx to create the NMI CR40xx to create the datastream(s) CR30xx to create the Register(s) Assumes single CR25xx will not be used by Participants <ul style="list-style-type: none"> Is this a valid assumption? 	<ul style="list-style-type: none"> LNSP NCONUML and Cross Boundary NMI creation plans

Transaction Volume Analysis - Current Assumptions and Inputs

Tranche	Category	Assumption(s)	Input(s)
2	Activation of Basic meter datastreams	<ul style="list-style-type: none"> • N/A • Updates have occurred pre-Oct 2021 	<ul style="list-style-type: none"> • N/A
2	New NMI Classification codes for existing NMIs	<ul style="list-style-type: none"> • N/A • Updates have occurred pre-Oct 2021 	<ul style="list-style-type: none"> • N/A

Notes (6/6)

- The TFG noted that one CR transaction will be used for the conversion of Net to Register Level datastreams
- The TFG noted that the creation of NCONUML and Cross Boundary NMIs will in some instances involve multiple transactions in a two-step process, first for the creation of the NMI with a "G" code, then activation with a "A" code.
- AEMO noted that the monitoring of the activation of basic meter datastreams and new NMI classification code updates for existing NMIs will be done through MSATS extracts.
- Some TFG participants noted that the delivery of NCONUML 5min data to AEMO might not be possible by 31 Aug 2021, depending on the readiness of their partners.

Next steps and general business

Greg Minney

Next steps & general business

- Readiness Survey responses due Friday 12 Feb 2021
- Initial MSDR WG meetings expected to be called for late March and late April
- Next TFG scheduled for 11 March
 - Agenda items for next meeting?
 - GLOPOOL Introduction planning e.g. scenarios

Thank you for your
attendance and participation!

