

5MS/GS Transition Focus Group #4: *Transition planning for metering and metering data*

Wednesday 6th November, 2019

AEMO Offices:

Level 9, 99 Gawler Place, Adelaide

Level 10, 10 Eagle St, Brisbane

Level 22, 530 Collins St, Melbourne

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WEBEX details in calendar invitation

Blaine		David Woods MEL	
Em		Justin Stute MEL	
Linda B		Jon Ham MEL	
Con M		Mark Reid	
Dino		Nick Gustafason	
Ingrid		Tim Lloyd	
Nicole B		Aakash Sembey	
Paul G		Greg Szot	
Marian Vasjuta		Jonathon Briggs	
Christoph Bechia		Paul Willacy	
Peter Wie		Warren van Wyk	Intellihub
Steve Smith – metering dynamics		Steph Lommi	
Mario Iogha	Origin	Owen Self	
Jeff Roberts			

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary Matters			
1	11:00am - 11:10am	Welcome, introduction and general housekeeping	Blaine Miner
Matters for discussion			
2	11:10am – 11:30am	Responses to actions from previous meeting	Blaine Miner
3	11:30am – 11:35am	Session objectives	Blaine Miner
4	11:35am – 12:30pm	Workshop	Blaine Miner
BREAK (12:30pm – 12:45pm)			
6	12:45pm – 1:45pm	Workshop continued	Blaine Miner
Other business			
7	1:45pm – 2:00pm	General questions	Blaine Miner

Reponses to actions

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TFG feedback since meeting #3

- Energy QLD sought clarification on which NMI classification codes may apply to CR1xxx transfer transactions.
- AEMO Response:
 - Based on the applicable CATS and WIGS procedures, the following NMI classification codes may be applicable to a CR1xxx transfer transaction:
 - LARGE
 - SMALL
 - WHOLESAL
 - INTERCON
 - GENERATR
 - NREG
 - DWHOLSAL

Responses to AEMO's actions

Section	Action	Responsibility	Response
Responses to actions	AEMO to follow up on stakeholder responses where necessary	AEMO	Ongoing
Responses to actions	Retailers who would like reports please request via 5ms@aemo.com.au	Retailers	Ongoing
Summary of proposed metering and metering data transition approach	AEMO to consider clarifications to metering/metering data transition chart	AEMO	To be updated as part of Transition Strategy work. Will take on board TFG and individual company feedback/responses.
Meter data delivery	AEMO to provide information around its assumption that MDPs are obligated to deliver 30-min granularity data prior to 1 July 2021 and 5-min granularity metering data thereafter.	AEMO	AEMO's position is that that MDPs need to deliver 30-min granularity data prior to 1 July 2021 and 5-min granularity metering data thereafter. This is unless there is agreement between the retailer, LNSP, MDP and AEMO [NER 7.10.5(a)].
	AEMO to include bulk supply point meters as an additional category in the MTP	AEMO	Complete
	AEMO to provide information to TFG on whether the LR should LR get data at different granularity than what required for settlement.	AEMO	If the retailer, LNSP, MDP and AEMO agreed to the delivery of 5min metering data, for a particular NMI pre-1 July 2021, the LR would by default receive 5-min metering data as well, even though the market was still settling on a 30-min basis.
MSATS standing data creation and maintenance	AEMO to clarify what NMI classification codes would apply to CR1000 transfer transactions	AEMO	UPDATED: Based on the applicable CATS and WIGS procedures, the following NMI classification codes may be applicable to a CR1xxx transfer transaction: LARGE, SMALL, WHOLESAL, INTERCON, GENERATR, NREG and DWHOLSAL

Session objectives

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Session objectives

- Finalise any outstanding items (dates / dependencies) on the MTP
- Confirm next steps

Approach to workshop

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Approach to workshop

Work through the MTP section by section:

1. Meter installation and reconfiguration

- Largely agreed at the last TFG
- Emphasis will be on agreeing critical start and end dates

2. Meter data delivery

- Discussion regarding potential pre-1 July 2021 5min delivery agreements and agreeing critical start and end dates

3. MSATS standing data creation and maintenance

- Discussion regarding NMI Classification Code transition windows and sequencing

4. MSP accreditation updates

- Agreement of accreditation key start and end dates
 - Taking into consideration MP/MDP scale of change, AEMO queuing processes and Participant/AEMO resourcing requirements

1. Meter installation and reconfiguration

- Have added a new sub-category of “BULK/Wholesale Meters” based on feedback from TFG members and for purposes of Readiness Reporting
 - Underlying activities, dates and content consistent with Type 1-3 meters
- That all required meters for market commencement have been installed/reconfigured **by 30 April 2021**
- Updated dependencies to refer to sub-category IDs
 - Dependencies in the MTP will only reference sub-categories contained within the MTP
 - All other dependencies not explicitly mentioned in the MTP are assumed to be the responsibility of the "Responsible" party for each activity

2. Meter data delivery

- Have added a new sub-category of “BULK/Wholesale Meters” to be consistent with Meter Installation and Reconfiguration
- Underlying activities, dates and content consistent with Type 1-3 meters
- Agreements to delivery of 5min metering data pre 1 July 2021 between T/DNSP, FRMP, MDP and AEMO have been finalised **by 28 Feb 2021**
 - Relating to:
 - BULK/Wholesale meters
 - Type 1-3 and subset of type 4
 - Cross boundary
 - Type 7
 - NCULs
 - Other interval meters, if agreed
- Where agreements exist, 5min metering data will be delivered via B2B and B2M **by 31 May 2021**
- 5min metering data for New and Replacement Type 4, 4A, Sample, VICAMI, etc meters will be delivered via B2B and B2M by 30 Nov 2022
 - Indicative Workplan to be delivered by 1 July 2020
- Tier 1 basic metering data will be delivered **from 1 Apr 2021 at the latest**

3. MSATS standing data creation and maintenance

- Standing data creation/updates, regarding the following items, need to be completed **by 31 May 2021**
 - Existing cross boundary supplies
 - NCULs
 - New NMI Classification Codes
- Tier 1 Basic meter datastreams activated by **31 Mar 2021**

4. MSP accreditation updates

- Assess level of change required for people, process and systems to facilitate 5MS/GS implementation **by 30 June 2020**
- Confirm scope/scale of change with AEMO **by 30 June 2020**
- Receive all Accreditation Applications **by 31 Mar 2021**
 - Accreditation Updates will be processed in accordance with AEMO's queuing processes
 - AEMO and Participant resource planning to be guided by the initial Accreditation assessments
- Finalise Accreditation Approvals **by 30 Apr 2021 for MPs and 31 May 2021 for MDPs**

Metering transition plan: Workshop

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1. Meter installation and reconfiguration

2. Metering data delivery

3. MSATS standing data creation and maintenance

4. Accreditation updates

General questions

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Reflection on session objectives

- Finalise any outstanding items (dates / dependencies) on the MTP
- Confirm next steps

General business and next steps

- Workshop outcomes and actions to be circulated to TFG and RWG
- Finalised MTP to be presented to the RWG for their consideration and approval

APPENDIX:

Refresher on 5MS and GS metering and metering data obligations

5MS Metering installation requirements

Metering Type	Requirement	Date
Types 1, 2, 3 and 7	<ul style="list-style-type: none"> Must be capable of recording and providing, and configured to record and provide, five-minute trading interval energy data. 	By 1 July 2021
Subset of Type 4*	<ul style="list-style-type: none"> Must be capable of recording and providing, and configured to record and provide, five-minute trading interval energy data. 	By 1 July 2021
Types 4, 4A and 5	<ul style="list-style-type: none"> All new or replacement metering installations (other than type 4A metering installations) installed from 1 December 2018 must be capable of recording and providing, and configured to record and provide, five-minute trading interval energy data. All new or replacement type 4A metering installations installed from 1 December 2019 must be capable of recording and providing, and configured to record and provide, five-minute trading interval energy data. 	By 1 Dec 2022

Note:

AEMO may grant an exemption where 1 type 1, 2, 3 or subset of type 4 meter is not quite capable of storing 35 days of metering data (i.e. 30-34 days) if it is reasonably satisfied that the Metering Provider will be able to otherwise satisfy the requirements of Chapter 7.

* Subset type 4 meters definition:

- Type 4 metering installations at a:
 - Transmission network connection point; or
 - Distribution network connection point where the relevant financially responsible Market Participant is a Market Generator or Small Generation Aggregator

5MS/GS metering data delivery to AEMO

Topic	Requirement	Date
File Format	<ul style="list-style-type: none">• MDFF NEM12 files to be the required file format<ul style="list-style-type: none">• For all interval metering data being delivered to AEMO• MDFF NEM13 files to be supported by AEMO• MDMF files for basic meter reads will continue to be supported and accepted	From 1 July 2021
Granularity	<ul style="list-style-type: none">• NEM12 interval metering data to be:<ul style="list-style-type: none">• Delivered at the register level (E, B, Q and K)<ul style="list-style-type: none">• NEM12 200 records must be accurate• As per the meter's trading interval configuration i.e. 5, 15 or 30-minute intervals	From 1 July 2021
Energy	<ul style="list-style-type: none">• Metering data which must be sent to AEMO:<ul style="list-style-type: none">• Import and Export Active energy (kWh) (E and B)• Import and Export Reactive energy (kVarh) (Q and K), where applicable• All other forms of measurement (such as volts and amps) are not required to be delivered to AEMO but will be processed if they are provided.	From 1 July 2021

5MS/GS: MSATS datastream standing data

Metering Type	Requirement	Date
Types 1, 2, 3 and 7	<ul style="list-style-type: none"> Net datastreams (N1) must be converted to Register level datastreams (E1, B1, etc.) 	By 1 July 2021
Subset of Type 4*	<ul style="list-style-type: none"> Net datastreams (N1) must be converted to Register level datastreams (E1, B1, etc.) 	By 1 July 2021
Types 4, 4A and 5	<ul style="list-style-type: none"> All new records relating to interval meters must be created at the register level e.g. E and B. Existing net datastream records can remain active post 1 July 2021, until an update to the datastream record is required e.g. meter replacement. Where an update is required to a CNDS record, the net datastream record is to be inactivated and any new active datastreams records are to be created at the register level. Datastreams associated with import and export reactive energy e.g. Q and K must be created in the CNDS table if they exist in the CRI table. <ul style="list-style-type: none"> Datastreams must be established in a manner that ensures they are not included in market settlements. 	From 1 July 2021
Basic Meters	<ul style="list-style-type: none"> All 1st tier datastreams must be activated and meter reads delivered to AEMO, for UFE purposes 	By 1 July 2021

5MS/GS: MSATS standing data - general

By 1 July 2021

- Non-contestable unmetered load (NCONUML) NMIs and associated standing data created in MSATS
- NMI Classification Code updates, for affected existing NMIs, to reflect the new code requirements

NMI Classification Code	Description
BULK	<i>Connection point where a transmission network connects to a distribution network - also termed 'Bulk Supply Point'</i>
DWHOLSAL	<i>Distribution network connection point where energy is directly purchased from the spot market by a Market Customer</i>
NCONUML	<i>Non-contestable unmetered load</i>
NREG	<i>Connection point associated with a non-registered embedded generator, i.e. a generating unit that is not classified by a Market Generator, but may be classified by a Small Generation Aggregator as a market generating unit.</i>
WHOLESALE	<i>Transmission network connection point where energy is directly purchased from the spot market by a Market Customer</i>
XBOUNDRY	<i>Connection point where a distribution network connects to another to distribution network</i>

Thank you for your
attendance and participation!