

5MS Metering Focus Group

10:00am – 4:00pm
Thursday 18 July 2019

AEMO Office:
AEMO Sydney Office - Sydney
Face-to-face only

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary Matters			
1	10:00am - 10:15am	Welcome, Introduction and General Housekeeping	Blaine Miner (AEMO)
Matters for Noting and Discussion			
2	10:15am - 10:45am	Metering Consultation Update	Blaine Miner (AEMO)
3	10:45am - 11:15am	June MFG Actions	Blaine Miner (AEMO)
4	11:15am - 1:00pm	Non-Contestable Unmetered Loads <ul style="list-style-type: none"> - NMI Creation - Inventory Management - Profiling 	Blaine Miner/David Ripper (AEMO)
	1:00pm - 1:30pm	Lunch	
5	1:30pm - 2:30pm	MSATS Standing Data Scenarios <ul style="list-style-type: none"> - NMI Classification Codes - LR and ENLR 	Blaine Miner (AEMO)
6	2:30pm - 3:00pm	Proposed Metering Data Quantity and Quality SLAs	David Ripper (AEMO)
7	3:00pm – 3:45pm	Readiness Workstream <ul style="list-style-type: none"> - 5MS/GS metering readiness planning - Interplay between procedures and transition & cutover activities 	Greg Minney & Emily Brodie (AEMO)
8	3:45pm – 4:00pm	General Business and Next Steps	Blaine Miner (AEMO)

Attendees

Attendee	Organisation
Linda Brackenbury	Plus ES
Wayne Turner	Ausgrid
Rod Jones	Intellihub
Justin Stute	Mondo
Stefanie Macri	Red Lumo
Maree Madden	AGL
Mark Riley	AGL
Paul Greenwood	Vector
Paul Willacy	Aurora
Aakash Sembey	Simply Energy
Mark Pilkington	Citipower/Powercor
Justin Bethlehem	AusNet
Divya Kapoor	Flowpower
Alex Skaria	Flowpower

Attendee	Organisation
Mario Ilogha	Origin
Dino Ou	Endeavour
Tim Lloyd	Essential
Andy Gillis	SAPN
Kelly Rutherford	Energy Queensland
Cindy Matthews	Energy Queensland
David Ripper	AEMO
Jim Agelopoulous	AEMO
Simon Tu	AEMO
Emily Brodie	AEMO
Blaine Miner	AEMO
Chris Muffett	AEMO
Shawn Tan	EnergyAustralia

Metering Consultation Update

Blaine Miner

Metering package #2 – Submissions Overview

- 20 Submissions were received by the closing date, Monday 24 June 2019
 - The submissions were published on AEMO's website on Friday 28 June 2019
- Almost 1,000 pieces of feedback received
- Material Items
 - Treatment and profiling of non-contestable unmetered loads
 - Metering data quality and quantity requirements
 - Inclusion of MSATS Standing data scenario content into the relevant procedures e.g. NMI Procedure
 - Approach to the removal/replacement of the LR and the introduction of the ENLR

Metering package #2 – Submissions Overview

Material Item	High-level Response Summary
NMI to device relationship for non-contestable unmetered loads	<ul style="list-style-type: none">• Varying views:<ul style="list-style-type: none">• 1 to 1• 1 to Many• Allowing for both 1 to 1 and 1 to Many
Profiling of non-contestable unmetered loads	<ul style="list-style-type: none">• Varying views re:<ul style="list-style-type: none">• Simple vs complex• Who performs the profiling itself i.e. MDPs or AEMO
Metering data quality and quantity requirements	<ul style="list-style-type: none">• Participants wanted to make sure AEMO struck the right balance in improving requirements while not introducing unintended consequences
MSATS Standing data scenarios	<ul style="list-style-type: none">• Procedures do not fully reflect the scenarios discussed in the June MFG
Removal/replacement of the LR and the introduction of the ENLR	<ul style="list-style-type: none">• Changes to the LR and the addition of the ENLR has not been implemented accurately in all instances

Advice Being Sought

Deliverable	Indicative date
Issues Paper published	20 May 2019
Submissions due on Issues Paper	24 June 2019
Draft Report published	5 August 2019
Submissions due on Draft Report	19 August 2019
Final Report published	30 September 2019



1. Other material items (additional to the 5 mentioned on the previous slide) which needs to be considered for the Draft report?
2. Fully 'decoupling' the ICF and MP2 consultations i.e. the MP2 procedure versions would not include ICF changes
3. Allowing additional time for participants to respond to the Draft Determination
4. Various timing options regarding the publication of MP3 guidelines and documents e.g. publish in Aug or after MP2 is finalised

Expected MP2 Draft Determination Versions - Update

Procedure	Current Version	Effective Date	Late 2019	Dec-20	Jul-21	Feb-22
Metrology Part A	6.04	1-Dec-17			MP1	MP2
Metrology Part B	6.0	1-Dec-17			MP1	MP2
MDFF Specification	1.06	1-Dec-17			MP1+2	
Glossary & Framework	2.1	1-Dec-17			MP1+2	
MDM Procedures	3.3	1-Dec-17			MP2	
MDM Format & Upload Process	1.1	1-Dec-17				
NMI Procedure	6.0	1-Dec-17			MP2	
SLP MDP	1.7	1-Dec-17			MP2	
Exemption - Data Storage	N/A		MP2			
CATS	4.7	20-May-19				MP2
WIGS	4.7	20-May-19				MP2
RoLR Processes Part A	1.0	1-Mar-16				MP2
Meter Data Provision	1.0	1-Mar-16			MP1	

Notes –

- MDM Format & Upload Process being removed from MP2 as it is a technical document and not a procedure.
- The Readiness Workstream will provide clarity around the approach, plans and activities to support the transition to the new arrangements.

Notes: Metering Consultation Update

- AEMO discussed the PWG support of decoupling the MP2 and ICF consultations, including high-level reasoning behind this decision e.g. divergent timings, unnecessary dependencies, etc.
- AEMO engaged the MFG on the expected length of time participants may require to submit a well considered submission to the MP2 Draft Determination
 - Members stated that it would be better to allow additional time to fully consider this consultation as opposed to rushing it, 'getting it wrong' and having to reopen some of the procedures at a later date (potential system build consequences)
 - Members believed that 4wks would be required given the level of complexity being consulted on
 - AEMO described to the MFG what would occur to formally 'accept' the 4wk request e.g. AEMO consideration and PCF level 2 milestone engagement
 - AEMO stated that there were no known AEMO 5MS program consequential impacts associated to this potential extension e.g. no expected impact on Technical Specification milestone timings
- AEMO stated that the MDM Format and Upload process document was being removed from the MP2 consultation, due to it being a non-rules based technical document
 - The MDM Format and Upload process document is still expected to be published for comment in early August
- AEMO requested that where a participant does not agree with an AEMO Draft position, for them to include sufficient context as to why they disagree and to propose an alternative option wherever possible

Notes: Metering Consultation Update

- AEMO described the interplay between Procedure effective dates and Readiness workstream plans
 - Members mentioned that Rules and Procedures are the documents which influences participant action the most i.e. compliance implications and that Readiness plans should not be relied upon to stimulate participant investment/action
 - AEMO stated that the relevant rules and procedures state “by” instead of “from” which should encourage participants to be ready prior to compliance requirements coming in
 - AEMO stated that Readiness would be discussed later in the agenda
- MFG and AEMO discussed various aspects associated with the data storage exemption procedure

June MFG Actions

Blaine Miner

June MFG Actions

Agenda Item	Action	Responsibility	Response
MSATS Standing Data Scenarios	AEMO and the MFG to consider preferred SGA identification and classification options	AEMO	AEMO is seeking confirmation that NSPs have no way of classifying SGA NMIs accurately prior to considering an alternative approach.
MSATS Standing Data Scenarios	AEMO to consider and apply alternative labelling of for Hybrid scenarios	AEMO	AEMO has not identified a preferred alternative visual, however, we have changed the description from "Battery" to "Hybrid (Gen & Load)" for the MFG's consideration.
MSATS Standing Data Scenarios	AEMO to circulate the underlying diagram used to support the MSATS Standing Data scenarios agenda item	AEMO	The current version of the underlying diagram has been attached to this email.
MSATS Standing Data Scenarios	AEMO to consider how and where the information captured in the MSATS Standing Data scenarios diagram could be included in AEMO documentation e.g. diagram or table version included in the NMI Procedure document	AEMO	As per the discussion in the MFG, AEMO is planning on including this information predominantly in the NMI Procedure. These changes will be included in the Draft Determination procedures.
Metering Consultation Update	MFG to provide detailed advice on preferred options for communicating how the Metering Package procedure versions fit together	MFG	<p>Providing mark changed versions based on the order of the effective start date of the procedures (and not the date of the consultation) is also important for industry to determine the changes for each effective start date. Given the volume of changes, the number of procedures that are changing and the multiple versions of the same procedure due to different effective start date, this current approach is ineffective.</p> <p>Please extend the "How Does It All Fit Together update....?" table on slide 7 of the 14-Jun-19 AEMO MFG Meeting Notes to include Metering Package 3.</p> <p>I am happy with the approach AEMO has provided – I have used the marked up version this time and will do the same for the next round, I think the harder part is actually referencing other documents when going through the procedures but this has been the same with previous versions anyway.</p>

June MFG Actions

Agenda Item	Action	Responsibility	Response
Metering Consultation Update	MFG to provide feedback regarding the likelihood, benefits and trade-offs of requesting potential submission extensions	MFG	Important to ensure the consultation period allocated is proportionate to the nature/complexity of those changes. Expected that the draft determination will contain more changes than this initial consultation, therefore we request that the due date for feedback on the draft determination be extended.
MSATS Standing Data Scenarios	MFG to consider preferred options regarding the recovery of Bulk connection point metering fees from 6 Feb 2022	MFG	This cost would be passed onto the network/transmission business. Confirmation from the AER should be obtained Option 1: TUOS recovery and extend to Vic to remove payment by local Retailers. Option 2: AEMO adds these costs to the market fees and pay metering charges to transmission entities.
MSATS Standing Data Scenarios	AEMO and the MFG to consider preferred SGA identification and classification options	MFG	NSPs are not aware of a SGA through our connection application process because from our experience it is not a FRMP that completes and submits the connection application, it is usually the customer, the developer or a party who is organising the connection. I believe that the SGA classification code provided in the scenarios is fit for purpose.
MSATS Standing Data Scenarios	MFG to consider alternative options in handling "mixed import/export" scenarios	MFG	Clarification of what this action was is needed.
MSATS Standing Data Scenarios	MFG to provide feedback regarding the physical and market based requirements associated with cross-boundary scenarios	MFG	Option 1: Map all current cross border usage to a TNI in MSATs as part of the 5MS go-live. Option 2: Install Meters for all cross border distribution and do not rely on the TNIs. Option 1 should be taken as Option 2 is cost prohibitive and requires physical changes to the distribution network AEMO should not assume that energy flow is linked with which Network created the NMI.

Notes: June MFG Actions

- Discussion regarding the identification and treatment of SGA connection points
 - Members stated that they did not know which connection points were associated to an SGA at the time of creating a NMI in MSATS
 - AEMO agreed that DNSPs could not identify SGAs efficiently but did suggest that they could identify non-registered embedded generators (NREG)
 - Proposed SGA NMI Classification Code be removed and NREG added
- AEMO circulated a SGA fact sheet to the MFG during this discussion
- AEMO confirmed that all June actions are now considered closed

Non-contestable Unmetered Loads

Blaine Miner/David Ripper

Non-contestable Unmetered Loads

- The creation and assignment of NMIs in MSATS
 - One NMI to One Device Model
 - One NMI to Multiple Device Model
 - AGL's additive parent child relationship proposal
- Inventory verification and management
 - Inventory audits
 - Additions and removal of devices from the inventory
 - Alignment between MSATS, Retail billing and Network billing
- Profiling
 - Simple (e.g. flat and basic switching) vs complex
 - AEMO vs MDP responsibilities
- 'Non-contestable enforcement'
 - E.g. Potential MSATS validations re transfers initiated between Retailers
- Transition and cutover considerations
- Other Considerations

Notes: Non-Contestable Unmetered Loads

- General discussion regarding various NMI creation models:
 - One NMI to one connection point and one NMI to multiple connection points
- AGL described their proposed master to child NMI option
 - Multiple child NCUL connection point NMIs linked to one master NMI
- Participants agreed that a one to one model is preferable but recognised that this arrangement will take time to transition to
 - Participants believed that AEMO should provide for both models in the Draft so that industry can lead the transition
 - AEMO agreed
- Agreement that 'Type 7 approach' works well for predictable NCULs such as watchman lights
- Members suggested that other less predictable NCULs should be treated as flat 12 or 24hr profiles
- AEMO recognised issues with having DBs publish certain information to the market e.g. confidentiality concerns
 - AEMO will remove the publishing requirement relating to NCULs in the MP2 Draft Procedures
- Discussed submission feedback regarding AEMO profiling NCUL instead of MDPs
 - Most members believed that the required updates to MDP systems should be manageable and that MDPs should perform this function
 - AEMO mentioned that if it had to perform the profiling then Retailers would also need to build this functionality in order for them to be able to validate AEMO's market charges
 - AEMO's draft position will be that the MDP needs to perform this profiling and supply 5min metering data to the market

MSATS Standing Data Scenarios

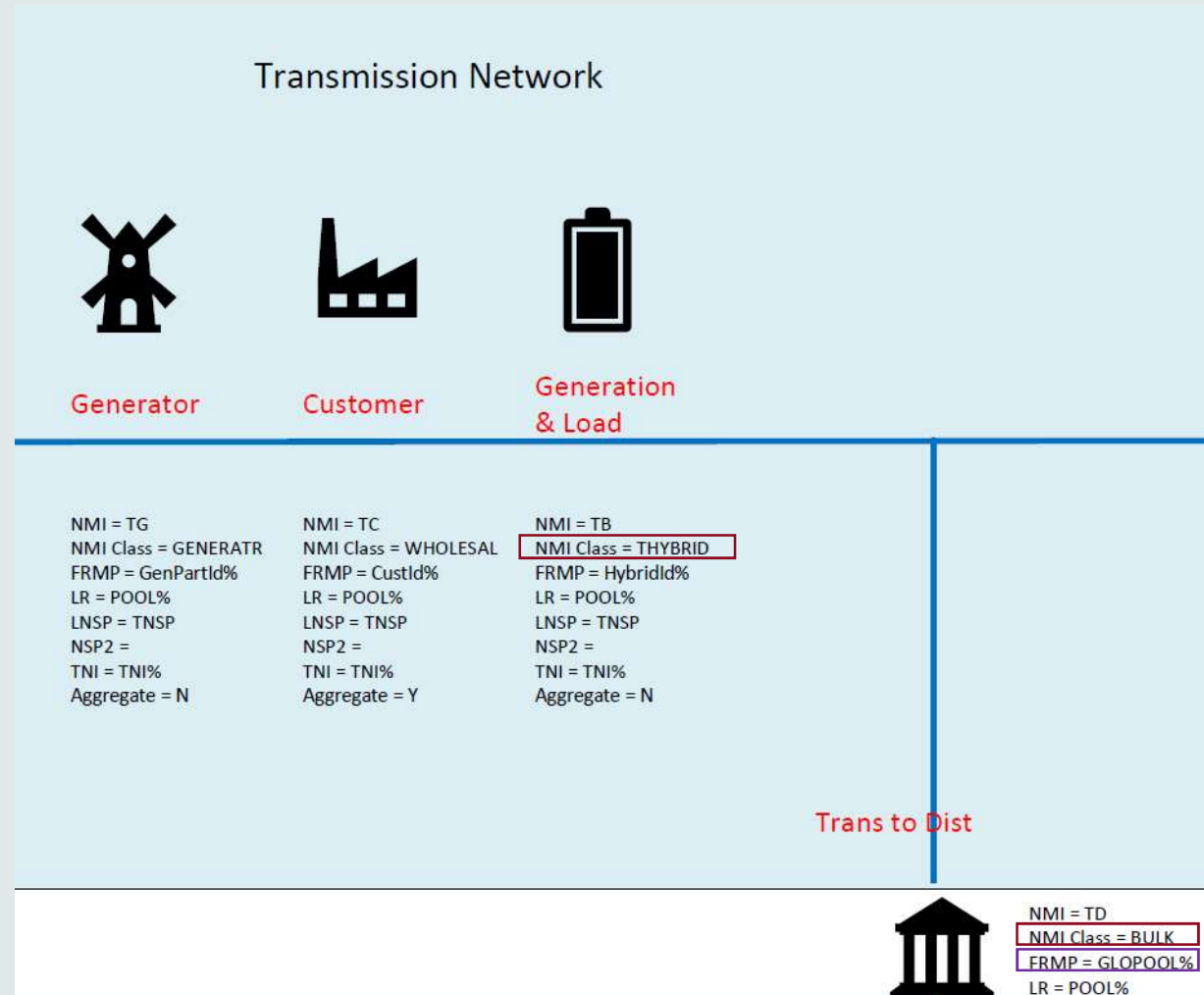
Blaine Miner

MSATS Standing Data Scenarios Overview

- MSATS Standing data scenarios required to ensure the correct allocation of energy from 1 July 2021
 - UFE Publication Effective Date
- Current thinking
 - A number of new NMI Classification Codes will be required
 - 'SGA' NMI Classification codes to include Small and Large reference i.e. 'SGAS' and 'SGAL'?
 - NMI Classification Codes expected to be updated via standard CATS CR process
 - LR and FRMP fields (GLOPOOL) to be updated by AEMO in consultation with relevant participants
- Draft Procedure considerations:
 - NMI Classification Codes
 - Will be included in the Draft NMI Procedure with an effective date of 1 July 2021
 - Will be included in the Draft CATS and WIGS with an effective date of 6 Feb 2022
 - Changes to the treatment and population of the LR and FRMP field
 - Will be included in the Draft CATS and WIGs Procedures with an effective date of 6 Feb 2022
- Other Considerations
 - Readiness - Transitional activities supporting these changes will be included in the relevant Readiness plan(s)

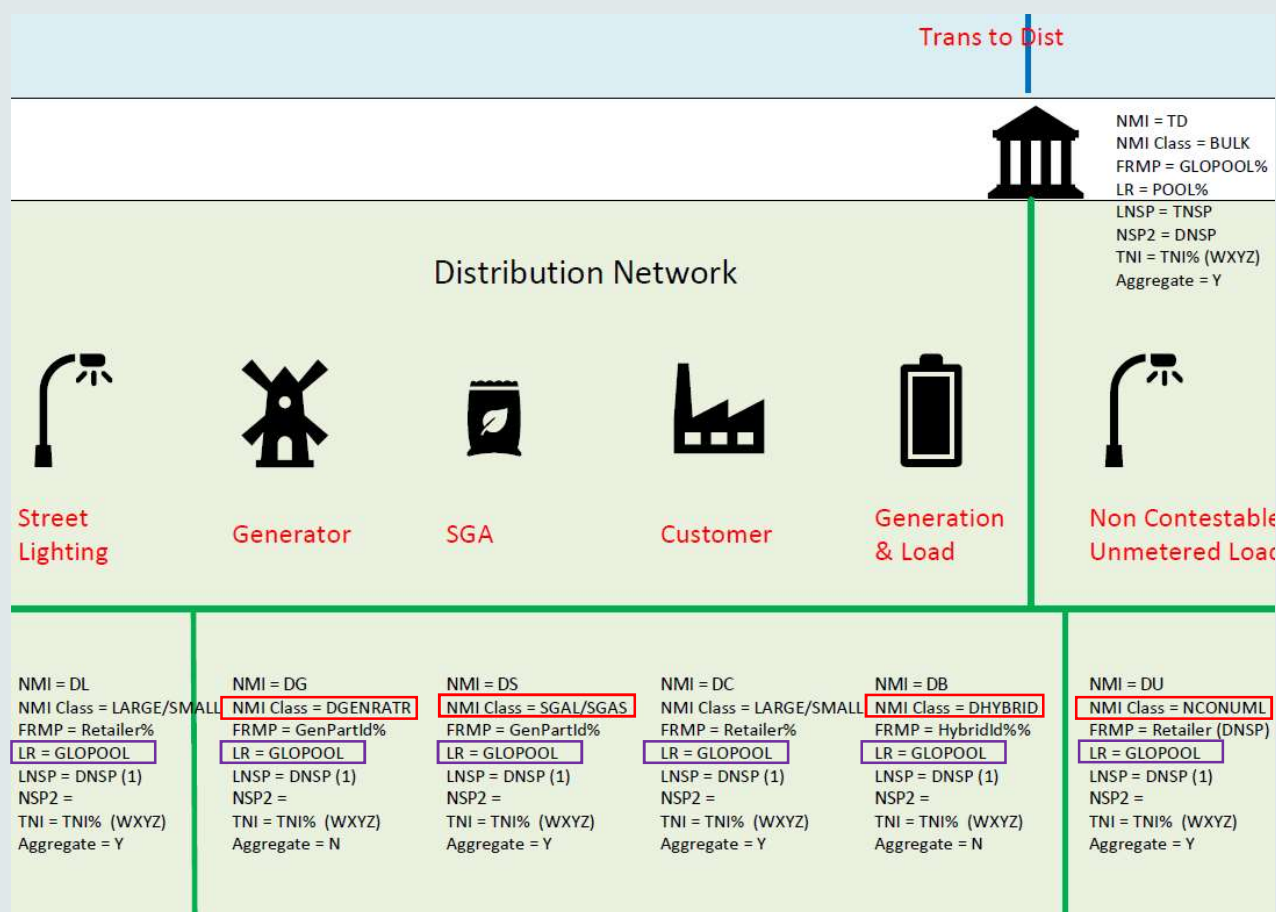
Transmission Connected Scenarios

- Changes for Transmission Connected NMIs
 - New NMI Classification Code for Battery Connections (THYBRID)
 - Requiring only 1 NMI for the installation, the other NMI will be made Extinct.
 - Transmission to Distribution Connections will be changed to BULK to differentiate them from WHOLESAL customer connections
- Participant Changes – Global Settlements
 - Transmission to Distribution Connections will have the FRMP changed to GLOPOOL



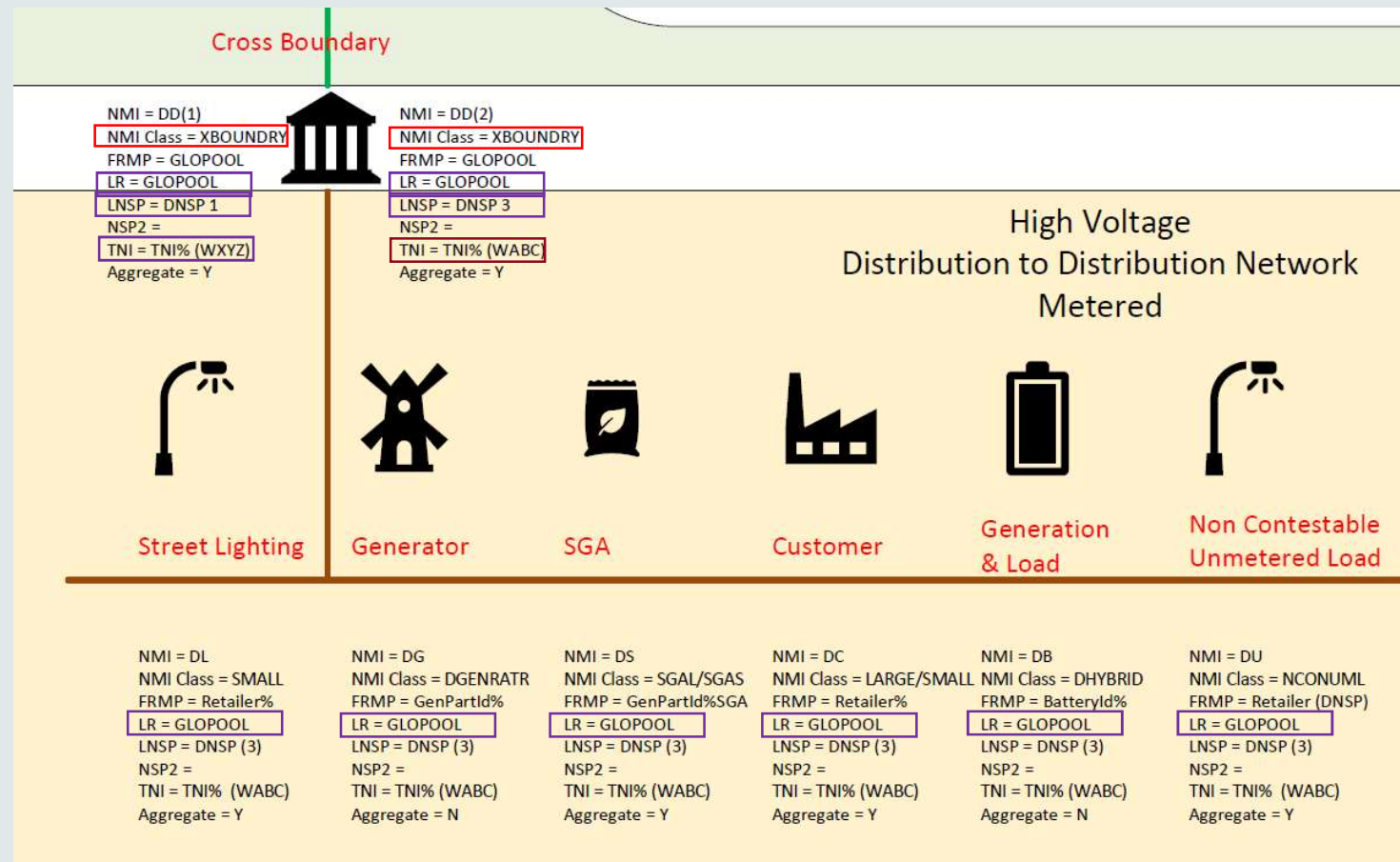
Distribution Connected Scenarios

- Changes for Distribution Connected NMIs
 - New NMI Classification Code for Battery Connections (DHYBRID)
 - Requiring only 1 NMI for the installation, the other NMI will be made Extinct.
 - New NMI Classification Code for Generator Connections (DGENRATR)
 - 2 New NMI Classification Code for Small Generator Aggregators?
 - SGAS – Small Customer?
 - SGAL – Large Customer?
 - New NMI Classification Code for Non-Contestable Unmetered Loads (NCONUML)
- Participant Changes – Global Settlements
 - Local Retailers will be changed to GLOPOOL for all distribution connected NMIs Except embedded network children



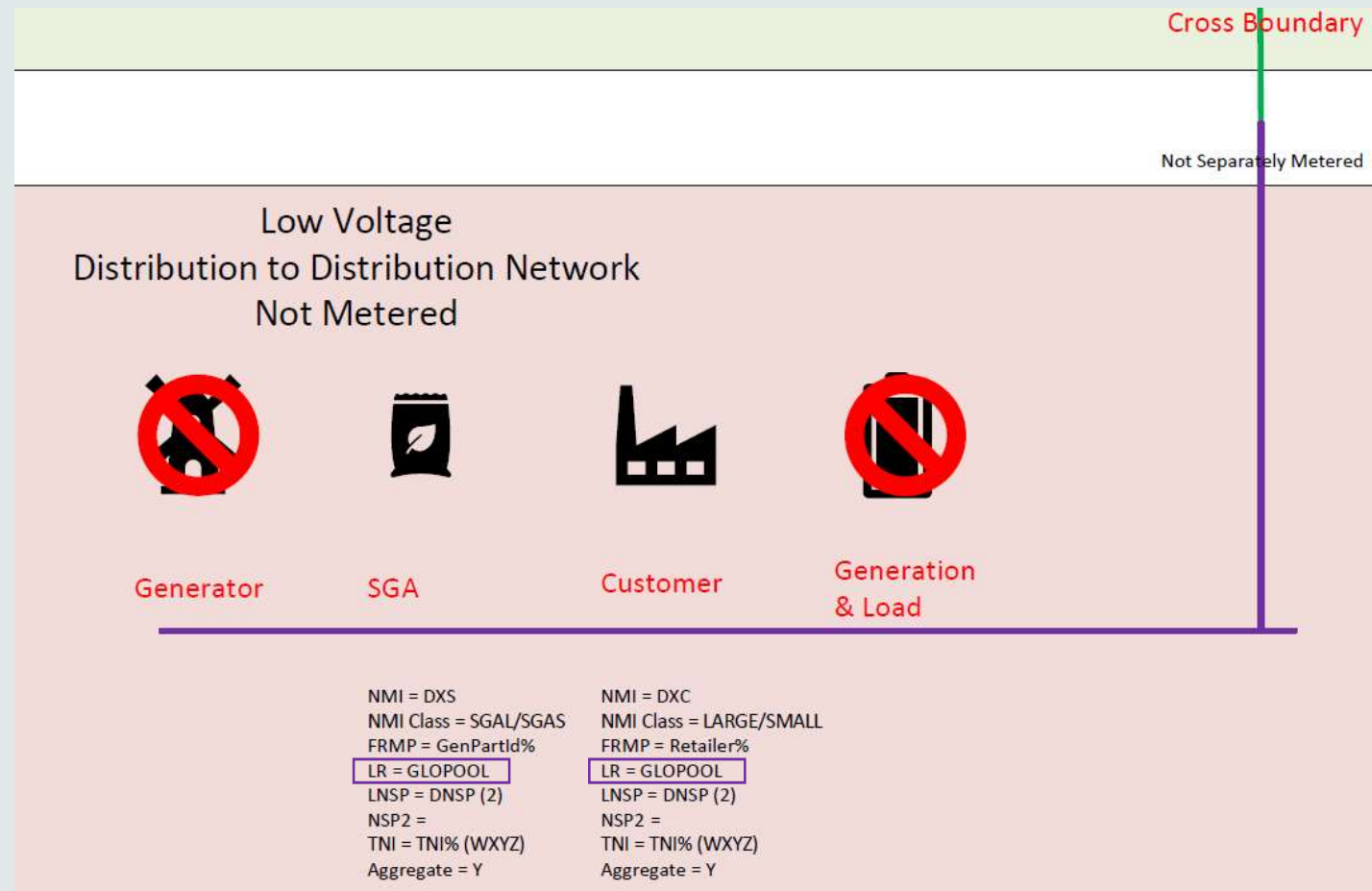
High Voltage Distribution to Distribution Connections Scenarios

- Changes for Distribution Connected NMIs
 - Distribution to Distribution High Voltage connections will need to be metered
 - A separate NMI will be set up for each Distribution network
 - New NMI Classification Code for Cross Boundary situations (XBOUNDARY)
 - A different TNI code will be assigned to end use NMI in the receipt Distribution network (Network not connected directly to TNI)
- Participant Changes – Global Settlements
 - The LR and FRMP will be changed to GLOPOOL for all Cross Boundary NMIs
 - Local Retailers will be changed to GLOPOOL for all distribution connected NMIs except embedded network children









Low Voltage Distribution to Distribution Connections Scenarios

- Changes for Distribution Connected NMI
 - Distribution to Distribution Low Voltage connections may be unmetered
 - TNI codes for each of the end use NMIs MUST have the TNI code of connection to the Transmission Network
 - Generator and Battery connections are not allowable without boundary metering
- Participant Changes – Global Settlements
 - Local Retailers will be changed to GLOPOOL for all distribution connected NMIs Except embedded network children



Embedded Network Connections Scenarios

- Changes for Embedded Network Connected NMI
 - Embedded Network Child NMI Classification Codes will reflect those detailed in the Transmission and Distribution slides
- Participant Changes – Global Settlements
 - Local Retailers for All Embedded Network Child NMIs will remain unchanged
 - Local Retailers for Transmission Connected Embedded Network Parent NMIs will remain unchanged
 - Local Retailers for Distribution Connected Embedded Network Parent NMIs will be changed to GLOPOOL

					
Parent Customer	Generator	SGA	On Market Customer	Off Market Customer	Generation & Load
NMI = TPC NMI Class = WHOLESAL FRMP = CustId% LR = POOL% LNSP = TNSP NSP2 = TNI = TNI% Aggregate = Y	NMI = TCG NMI Class = GENERATR FRMP = GenPartId% LR = Parent FRMP Id% LNSP = ENM% (2) NSP2 = TNI = TNI% Aggregate = N	NMI = TCS NMI Class = SGAL/SGAS FRMP = GenPartId% LR = Parent FRMP Id% LNSP = ENM% (2) NSP2 = TNI = TNI% Aggregate = Y	NMI = TCC NMI Class = WHOLESAL FRMP = CustId% (2) LR = Parent FRMP Id% LNSP = ENM% (2) NSP2 = TNI = TNI% Aggregate = Y	NMI = TCO NMI Class = WHOLESAL FRMP = Parent FRMP Id% LNSP = ENM% (2) NSP2 = TNI = TNI% Aggregate = Y	NMI = TCB NMI Class = THYBRID FRMP = HybridId% LR = Parent FRMP Id% LNSP = ENM% (2) NSP2 = TNI = TNI% Aggregate = N

MSATS Standing Data Scenarios

- In summary, the proposed new NMI Classification Codes are:
 - THYBRID – Transmission Connected Batteries
 - DHYBRID – Distribution Connected Batteries
 - SGAS – Small Generator Aggregator Small Customer?
 - SGAL – Small Generator Aggregator Large Customer?
 - NCONUML – Non-Contestable Unmetered Load
 - BULK – Bulk supply points from Transmission to Distribution connection points
 - XBOUNDRY – Cross boundary connection points for High Voltage connection to another Distribution Network
 - DGENRATR – Distribution connected Generator

Notes: MSATS Standing Data Scenarios

- AEMO not intending to proceed with NMI classification Code of SGA, to be replaced by NREG
- AEMO not intending to proceed with HYBRID NMI classification Codes, tied up with ESS rule change development and timing
- Question regarding the provisioning/treatment of Small or Large NCULs
 - In instances where NCULs are being aggregated under one NM, should the NMI be classified as Small or Large?
 - DNSPs prefer procedures to say NCULs are always Small, irrespective of aggregated load, but retailers may have a different view
- Member asked if the NMI Classification Code is an enumerated list
 - AEMO confirmed that the participant submitted NMI Classification code is validated by MSATS at the time of CR submission using a codes table and it is not based on an Enumerated list. As a result there is no impact to the aseXML schema when introduction new NMI Classification codes
- Expected process for updating MSATS standing data
 - NMI Classification Codes – as per the standard CATS CR process
 - GLOPOOL updates – updates to be performed by AEMO, supported by applicable participants
- Implications of the introduction of GLOPOOL
 - Retailers/LRs will no longer receive metering data where they are not the FRMP of the NMI e.g. bulk supply point metering data
- Question asked about who will pay the metering charges for boundary metering if the LR is GLOPOOL
 - MSPs to discuss this issue with NSPs
- Members mentioned that all of the variations of cross-boundary supplies needs to be discussed and finalised
 - Ausgrid stated that all of these scenarios must be finalised to ensure the correct NSP system validations are developed
 - Members Suggested the need to have a Cross Boundary Guideline to flush out the permutations and the detail
 - Action: AEMO to arrange WebEx session to explore variety of cross boundary scenarios
 - Action: MFG to provide known cross-boundary scenarios for inclusion in the WebEx session e.g. 66KV's (that are bidirectional)

Proposed Metering Data Quantity and Quality SLAs

David Ripper

Proposed Metering Data Quantity and Quality SLAs

- Current Arrangements - as per the 'Service Level Procedure: Meter Data Provider Services'

Aspect	Preliminary	Final	Revision 1 (R1) or 4 month	Revision 2 (R2) or 6 month
Quantity of Settlements Ready Data	98%	98%	98%	98%
Quantity of Settlements Ready Data with 'A' or 'F' quality flag	-	-	98%	98%

- AEMO does not believe that the current arrangements are adequate to achieve the required level of accuracy in the NEM settlement process in a 5MS/GS environment
 - They don't delineate between remotely read meters and manually read meters
 - They don't reflect the expected level of improvement in both the quantity and quality of settlement ready data delivered between the settlement cycles e.g. Final vs Revision 1 (R1) vs Revision 2 (R2).

Proposed Metering Data Quantity and Quality SLAs – First Stage

- Proposed Arrangements

Metering Data Type	Aspect	Preliminary	Final	Revision 1 (R1)	Revision 2 (R2)
Remotely Read Metering Data	Quantity of Settlements Ready Data	98%	100%	100%	100%
	Quality of Settlements Ready Data with 'A' or 'F' quality flag	95%	98%	100%	100%
Manually Read Metering Data	Quantity of Settlements Ready Data	99%	99%	100%	100%
	Quality of Settlements Ready Data with 'A' or 'F' quality flag	-	-	95%	100%

Endeavour Energy MP2 Submission Proposal

Metering Data Type	Metering installation	Service	Preliminary	Final	R1 or 4 month	R2 or 6 month
Remotely Read & Calculated Metering Data	types 1, 2, 3 metering installations and type 4 metering installations at a transmission network connection point or distribution network connection point where the FRMP is a Market Generator or Market Small Generation Aggregator	Quantity of Settlements Ready Metering Data	100%	100%	100%	100%
		Quality of Settlements Ready Metering Data with "A" or "F" quality flag	99%	100%	100%	100%
	Type 4 not covered above, type 7 and non-contestable unmetered loads	Quantity of Settlements Ready Metering Data	99%	100%	100%	100%
		Quality of Settlements Ready Metering Data with "A" or "F" quality flag	95%	98%	100%	100%
Manually Read Metering Data	Types 4A, 5 & 6	Quantity of Settlements Ready Metering Data	99%	99%	100%	100%
		Quality of Settlements Ready Metering Data with "A" or "F" quality flag	-	-	95%	100%

Proposed Metering Data Quantity and Quality SLAs – Draft Stage

Metering Data Type	Aspect	Preliminary	Final	Revision 1	Revision 2
Remotely Read Interval Data	Quantity of Settlements Ready Data	98%	99%	100%	100%
	Quality of Settlements Ready Data	95%	98%	99.5%	99.9%
Manually Read Interval Data	Quantity of Settlements Ready Data	98%	99%	100%	100%
	Quality of Settlements Ready Data			98%	99.9%

Notes: Proposed Metering Data Quantity and Quality SLAs

- AEMO stated that some the proposed Quantity SLAs in the MFG slide pack does not reflect the previously distributed slide pack, due to feedback being received from an MDP prior to the meeting
 - MDP feedback suggested that the Quantity SLA for R1/R2 should be 100%
- AEMO asked what scenarios caused the quantity of reads to *not* be a 100% by Revision 1
 - Member mentioned that system deficiencies and manual exception processes resulted in this outcome
 - AEMO asked why MDP systems were not programmed to provide temporary substitutions while manual exceptions were being investigated
 - Member mentioned that substitution methods are different for different meter types, some involve negotiation with other parties and this takes time and manual intervention
 - Member asked what the current MDP quantity performances were
 - Multiple members suggested that MDPs are currently performing above 99%
 - Members were comfortable with quantity targets being between 99% and 99.9%

Readiness Workstream

Greg Minney and Emily Brodie

5MS/GS Market Readiness Framework



5MS/GS market readiness objective

- The objective of the market readiness workstream *is to facilitate uninterrupted market operations for AEMO and NEM participants across the "go-live" dates for both 5MS and GS.*
- All Participants and AEMO are responsible for their own organisation's readiness.

5MS/GS market readiness workflow scope

Readiness Reporting and Management

- Establishment of objective readiness criteria, with regular reporting by impacted participants
- Analysis and assessment of reported results
- Proactive responses to identified issues
- Readiness issue and risk assessments, including recommended contingency options
- Escalation of issues as required

Industry Testing and Market Trials

- Planning, execution and management of Market / Industry test activities
- Environment support and availability
- Capability release and timing

Transition and Cutover

- Establishment of Market Transition Strategy which details the steps, activities and responsibilities in moving from current state to future state
- Planning and monitoring of participant and AEMO transition activities (link to readiness criteria)
- Systems cutover planning and execution - including industry co-ordination

Metering Accreditation Updates

- Identification of timing and scope of accreditation requirements
- Accreditation Update approach
- Monitor accreditation progress against agreed timeframes

Key readiness documents



5MS/GS metering readiness - strategy

- Metering readiness starts with a strategy and is then developed into a detailed plan.
- Metering transition activities for 5MS/GS will be identified as part of the overall **Transition and Go-Live Strategy**
- Strategy will be developed over Q3-4 2019 in consultation with the PCF and RWG.
- *The strategy will provide sufficient information to support participants' scoping and design.*
- Metering activities will include (but not limited to):
 - Transition of type 1-3 and 4* meters and 7 metering installations to 5-minute
 - Installation of cross-boundary meters
 - NMI re-classification
 - Updates to existing NMIs' LR and FRMP fields
 - Loading of NCUL
 - Tier 1 meter data delivery to AEMO

5MS/GS metering readiness - plan

- **Metering Transition Plan** will elaborate the specific plans for executing the metering activities identified in the strategy. It will:
 - Identify responsibilities, timeframes, approaches and dependencies for the metering transition activities
 - Set out readiness criteria which participants will report against as part of ongoing 5MS/GS NEM readiness assessments
 - Be developed in Q1 2020, in consultation with the RWG and MFG.

Interplay between procedures and transition & cutover

- Some submissions to metering package #2 consultation have raised transitional/cutover issues e.g. how NCULs will be populated in MSATS etc.
- Broadly:
 - Procedures reflect the “end state” market arrangements for 5MS/GS in accordance with the NER.
 - Transition/cutover planning details how and when metering/other activities should occur to get to the “end state”.
- AEMO’s approach to transitional/cutover issues raised in submissions or via other channels is to:
 - Where appropriate, document issues and scope activities to manage issue/s in the relevant readiness plan
 - Engage with industry on the transition plan (including coverage of the issues and activities)
 - Implement plan and manage progressive completion and readiness criteria

Notes: Readiness Workstream

- Member asked if the introduction of NCULs would result in the need for accreditation updates
 - AEMO stated that this would be dependent on the exact scenario and that these considerations would be addressed as part of the Readiness Workstream
- Question asked if the Readiness group had developed a 'flow path' about what would happen if certain participants were ready and others were not
 - AEMO stated that the RWG would be considering this issue in the coming months
- Member made a comment that Readiness appears to be only focusing on 1 July 2021 delivery as opposed to 1 July 2021, 6 February 2022 and 1 December 2022 delivery
 - AEMO commented that Readiness will consider the activities required to successfully implement both Rules
- Member requested that VIC AMI considerations are explicitly called out in the relevant readiness plans
- Member suggested that an option for transitioning to 5min metering data may be by transitioning one participant at a time e.g. AGL is ready first then all of AGL meters are converted first
- Member mentioned that some participants will be delivering their system changes throughout 2021 and 2022
 - Will be transitioning type 4 and 4A of meters throughout 2022
 - On average approximately 650 meters per day to deliver 5min data throughout 2022 to meet the 01 Dec 2022 deadline

General Business and Next Steps

Blaine Miner

General Business and Next Steps

- Workshop outcomes and actions to be circulated
- Call for nominations for Readiness MFG
- Next MFG

Notes: General Business and Next Steps

- AEMO Stakeholder team will be contacting MFG members to confirm primary contact details
- Readiness is currently considering if a new call for nominations will be required to support the Readiness centric MFG discussions
- Next MFG expected to occur in late Aug

Thank you for your
attendance and participation!