METERING COMPETITION
EMBEDDED NETWORKS
METER REPLACEMENT PROCESSES

PROCEDURE CONSULTATION

SECOND STAGE PARTICIPANT RESPONSE TEMPLATE

Participant: *Origin Energy*

Completion Date:*19 July*

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1. Glossary and Framework

Please delete any rows where there are no participant comments

<table>
<tr><th>Clause</th><th>Heading</th><th>Metering Competition</th></tr>
<tr><td>1.2.1</td><td>Glossary</td><td>
<table>
<tr><td>Customer Classification Code</td><td>A code used in MSATS to determine the classification of an End User.
See section 4.10.2 of the CATS Procedures for further information</td></tr>
</table>

Customer Classification Code is CATS 4.10.1

<table>
<tr><td>Meter Status Code</td><td>A code used in MSATS to delineate the status of a meter. See also section 4.11.3 of the CATS Procedures.</td></tr>
</table>

Meter Status Code should be updated to reads as Meter Status Register Code which is the heading for section 4.11.3 in CATS

Objection Clearing Period

The definition notes in the response from Pacific Hydro isn't the same as the Definition in the updated Glossary – the Pac Hydro version seems to be clearer

<table>
<tr><td>117.</td><td>Pacific Hydro</td><td>Chapter 3</td><td>Objection Clearing Period</td><td>The number of business days ~~after which~~ an ~~outstanding~~ Objection can remain in MSATS. ~~It will be cancelled by MSATS once this period elapses~~ If the Objection has not been withdrawn by the end of the Objection Clearing Period, the Objection will be cancelled by MSATS.</td><td></td><td></td><td>Agreed.</td></tr>
</table>
</td></tr>
</table>

		Objection Clearing Period: The number of *business days* after which an outstanding Objection can remain in MSATS. It will be cancelled by MSATS once this period elapses if the Objection has not been withdrawn.
Chapter 3	Glossary	

				with the definition rather than a reference			
101.	Origin	Chapter 3	NMI	# NMI – National Metering Identifier – as many NMI's will have multiple meters attached the definition should be better reflect the actual meaning. Could be seen as misleading when it refers to a 'meter identifier' yet there are many meters on the NMI.			No change. AEMO has used the NER defined term. Origin is encouraged to provide further information to explain why the NER defined term needs to be clarified further.
[illegible]	Endeavour	Chapter 3	NMI Address, NMI	Procedural improvement: The definition of NMI Address does [illegible]			[illegible]

2. Meter Data File Format

Please delete any rows where there are no participant comments

<table>
<tr><th>Clause</th><th>Heading</th><th>Metering Competition</th></tr>
<tr><td>3.3</td><td>3.3.4 (a)</td><td>(a) The index read is the total accumulated metering data for a DataStream retrieved from a meter's register at the time of collection and must be the index read as of 00.00 for that day.

The index reads needs to be as of midnight to ensure any jurisdictional requirements to include the index read aligns on a customer bill with the meter data for the period. Not having a index read provided where a customer transfer completes as of midnight may lead to erroneous or calculated index reads having to be included on customers' bills</td></tr>
<tr><td>4.3</td><td>NMI data details record (200)</td><td><table>
<tr><td>29</td><td>Origin</td><td>4.3</td><td>NMI data details record (200)</td><td>NextScheduledReadDate:
This field is not required for remotely read meters</td><td></td></tr>
<tr><td>30</td><td>United Energy</td><td>4.3</td><td>NMI data details</td><td>Register ID to be mandatory for Type 5, 4a AND 4. It makes no sense to</td><td></td></tr>
</table>
This should be updated to read ' this field should not be provided for remotely read meters' as the data will be delivered daily

Where the NSRD is provided in the MDFF, due to other Metrology procedures a PMD cannot be sent to request the data until after the NSRD. Where a meter is being remotely read either via VICAMI or as a new Type 4, there isn't an NSRD as the meter is read daily, however by providing an NSRD in the MDFF it prevents the FRMP/LR being able to follow up on missing data until this date is reached.

This isn't the intent or purpose, but having it written into the rules will prevent a participant following up on missing data</td></tr>
</table>

Metrology Procedure: Part A

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition
4.10	Alarm Settings	**4.10. Alarm settings** Where the *meter* supports alarm functionality as an attachment to the interval metering data, the MP is required to enable the following alarms: (a) Power failure; (b) Voltage failure; (c) Pulse or interval data overflow; (d) Checksum error; and (e) Time reset. Where there are alarm sensitivity settings, these must be set at appropriate levels to ensure meaningful alarm outputs (e.g. for contestable customer supplies a Voltage drop of -15% is nominally appropriate). Alarms and alarm settings appear in multiple documents but reference different alarms – there needs to be an agreed set of alarms that is consistent across procedures

3. Metrology Procedure: Part B

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition

4. MSATS Procedures: CATS Procedure Principles and Obligations

Please delete any rows where there are no participant comments

<table>
<tr><th>Clause</th><th>Heading</th><th>Metering Competition</th></tr>
<tr><td></td><td>QUICK REFERENCE GUIDE</td><td>Section Reference not found so unable to cross check

<table>
<tr><th colspan="3">Maintain Metering</th></tr>
<tr><th>Change Reason Code</th><th>Description</th><th>Section & Page No</th></tr>
<tr><td>3000, 3001</td><td>Create Metering Installation Details</td><td rowspan="2">Sec Error! Reference source not found., Page Error! Bookmark not defined.
Disabled from 1</td></tr>
<tr><td>3003</td><td>Create Tier 1 Metering Installation Details</td></tr>
</table></td></tr>
<tr><td>2.2</td><td>FINANCIALLY RESPONSIBLE MARKET PARTICIPANT</td><td>
<table>
<tr><td>Origin</td><td></td><td></td><td>(s) ~~Inform the LNSP when a *connection point* is remotely *disconnected* or remotely reconnected unless the remote *disconnection* or remote reconnection has been performed by the LNSP.~~
This shouldn't be a FRMP obligation – should sit with the</td><td></td><td></td><td>Refer to section 4.6</td></tr>
</table>
FRMP will not be aware of the remote re-en when triggered by a pending new retailer and the transfer then doesn't complete. The MC would only do the re-en when there is a pending transfer in the market but if this is cancelled then no party would be advising the LNSP of the completed remote re-en</td></tr>
<tr><td>2.3</td><td>LOCAL NETWORK SERVICE PROVIDER</td><td>Where the LNSP has requested a remote re-en or de-en there is no obligation for the LNSP to advise the FRMP. The FRMP has the obligation under 2.2 to advise the LNSP so there should be an equal obligation that the FRMP is advised when they have not triggered the work.</td></tr>
</table>

<table>
<tr>
<td>4.2</td>
<td>CHANGE REASON CODE</td>
<td>
<table>
<tr><td>6800</td><td>Change Multiple Roles SMALL</td><td>Current FRMP or Current MC</td></tr>
<tr><td>6801</td><td>Change Multiple Roles LARGE</td><td>Current FRMP or Current MC</td></tr>
</table>

The Change Reason Codes descriptions need to be updated to match the descriptions in Section 38.1 as below

38.1. Application [6800 6801]

Section 36 applies to the following Change Reason Codes:
<table>
<tr><th>Change Reason Code</th><th>Comment</th></tr>
<tr><td>6800 – Change Multiple Roles</td><td>Used where the Current FRMP or Current MC is required to provide concurrent Prospective Changes to one or more Roles.</td></tr>
<tr><td>6801 – Change Multiple Roles – Retrospective</td><td>Used where the Current FRMP or Current MC is required to provide concurrent Retrospective Changes to one or more Roles.</td></tr>
</table>
</td>
</tr>
<tr>
<td>4.11</td>
<td>STATUS CODES (NMI AND DATASTREAM)</td>
<td>
4.11.3. Meter Register Status Codes

(a) The Meter Register Status Codes denote the status of the meter in MSATS.

(b) The only Meter Register Codes are C and R, as defined in Table 4-10.

Table 4-10 – Meter Register Status Codes
<table>
<tr><th>Code</th><th>Name of code</th><th>Description of code</th></tr>
<tr><td>C</td><td>Current</td><td>Applies when a meter at the NMI is current.</td></tr>
<tr><td>R</td><td>Removed</td><td>Applies when a meter at the NMI is removed.</td></tr>
<tr><td>D</td><td>Remotely Disconnected</td><td>Applies when a meter at the NMI is remotely disconnected.</td></tr>
</table>

4.11.3 (b)
The only Meter Register Codes are C, D and R, as defined in Table 4-10.
</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>Needs to be updated to say that the codes are C, D and R</td></tr>
<tr><td>4.16</td><td>Maintenance of Codes and Rules</td><td>

4.16. Maintenance of Codes and Rules

(a) AEMO must maintain the following codes and rules in MSATS:

Change Reason Codes	Role Codes	Initiation Rules
Jurisdiction Codes	Timeframe Rules	Objection Codes
Objection Rules	NMI Classification Codes	NMI Status Codes
Metering Installation Type Codes	Read Type Codes	Field Validation Rules
Change Request Status Notification Rules	NMI Discovery Search – NMI Search Rules	NMI Discovery Search – NMI Data Access Rules
NMI & CATS Standing Data Access Rules	Network Tariff Code	Time of Day Codes
Controlled Load Indicator		

The Controlled Load Indicator is in the table in white text and almost impossible to see.
</td></tr>
<tr><td>7.</td><td>AEMO BULK CHANGE TOOL</td><td>The AEMO Bulk Change tool section has been moved to Section 42</td></tr>
</table>

<table>
<tr><td>8.4</td><td>FRMP Requirements</td><td>(h) For Retrospective Changes, nominate, in accordance with section (d), a Proposed Change Date. The time limits for Retrospective Changes are provided in section Error! Reference source not found..

Section Reference not found so unable to cross check</td></tr>
<tr><td>8.6</td><td>MC Requirements</td><td>8.6. Timeframe Rules
When preparing a Change Request, the New FRMP must choose, for the identified Change Reason Codes, a Proposed Change Date that lies between the Prospective Period and Retrospective Period, as shown in the Error! Reference source not found..

Section Reference not found so unable to cross check</td></tr>
<tr><td>10.4</td><td>LNSP Obligations</td><td>
<table>
<tr><td>282.</td><td>Ausgrid</td><td>10.4</td><td>LNSP Obligations</td><td>LNSP must populate all Roles in NMI creation. B2B SO Allocate NMI must support this process. The FRMP raising an Allocate NMI must populate all Roles required or the NMI Creation process to MSATS must change to only require LNSP and FRMP with MC as optional.</td><td></td><td></td><td>Refer to section 4.7</td></tr>
</table>

The Allocate NMI process is triggered often well in advance of the need to connect the site. In some cases developers are required to request the NMI at the early stages to allow the network to assess the network configuration requirements for the development.

Based on an Allocate NMI Service Order from a retailer the LNSP should be able to create a NMI and assign the FRMP and LNSP roles, but having to nominate the metering roles often 9 months ahead of the actual connection will create unnecessary rework. The metering roles should then become mandatory to be updated when the metering is installed, but having them assigned so far in advance is unnecessary and will lead to change requests having to be raised to update roles.

The industry workshops notes from 15th 16th Feb prior to the consultation considered that this approach would be considered by AEMO and was well supported by participants– but now seems to have been rejected. Origin support the FRMP and LNSP roles being assigned when the NMI is created and the Metering roles being optional at this stage.</td></tr>
</table>

<table>
<tr><td>14.3</td><td>INITIATION ROLES</td><td>

14.3. Initiating Roles

(d) A new ENM may initiate a change request to create a NMI, metering installation details and MDM datastream for an embedded network in the MSATS system in accordance with clause **Error! Reference source not found.**.

(e) The new ENM must use one of the following change reason codes 2520 or 2521 to establish an initial change request.

Section Reference not found so unable to cross check

</td></tr>
<tr><td>15.3</td><td>Initiating Roles</td><td>

15.3. Initiating Roles

A Current MPB may initiate a Change Request to create *metering installation* records in MSATS in accordance with section **Error! Reference source not found.**.

Section Reference not found so unable to cross check

</td></tr>
<tr><td>15.7</td><td>CHANGE REQUEST STATUS NOTIFICATION RULES</td><td>

15.7. Change Request Status Notification Rules

The Change Request Status Notification Rules for the Change Reason Codes identified in section **Error! Reference source not found.** are specified in Table 15-2.

Section Reference not found so unable to cross check

</td></tr>
<tr><td>22.7</td><td>CHANGE REQUEST STATUS NOTIFICATION RULES</td><td>

<table>
<tr><td>385.</td><td>Origin</td><td>22.7</td><td>CHANGE REQUEST STATUS NOTIFICATION RULES</td><td># CR5070/5071 Notification of changes should also be provided to Current LR</td><td></td><td></td><td>AEMO does not agree with this suggestion as the LNSP and LR can get this information from the MDFF</td></tr>
<tr><td>386.</td><td>Endeavour Energy</td><td>22.7</td><td>CHANGE REQUEST STATUS NOTIFICATION RULES</td><td>Procedural improvement: The LNSP needs to be notified of these Change Requests because it is initiated by the Current MDP who may not be the LNSP. However consistent with current practice, the notification should only be provided if the Change Request was initiated by a MDP that is not affiliated with the LNSP.</td><td></td><td></td><td>AEMO does not agree with this suggestion as the LNSP and LR can get this information from the MDFF</td></tr>
</table>

</td></tr>
</table>

25.7

CHANGE REQUEST STATUS NOTIFICATION RULES

24.7. Change Request Status Notification Rules

The Change Request Status Notification Rules for the Change Reason Codes identified in section 24.1 are specified in Table 24-2.

Table 24-2 – Change Request Status Notification Rules**

CR Code – 5070 – Update Next Scheduled Read Date
CR Code – 5071 – Update Next Scheduled Read Date – Retrospective
PARTICIPANT ROLE – Receives Notification of Change

Status Change	FRMP		LR		LNSP		MDP		MPB		RoLR		RP	
	N	C	N	C	N	C	N	C	N	C	N	C	N	C
CANCELLED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMPLETED	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-
OBJECTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENDING	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REJECTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REQUESTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-

** N = New Role, C = Current Role.

As per Origins first response the 5070 and 5071 needs to be provided to the LR in the COMPLETED role

Whilst the MDFF contains the NSRD when it is provided to the LNSP and LR the LR does not then receive any updates for any subsequent changes to the NSRD

As the LR origin need to be able to follow up missing market data via a PMD but cannot do so until the NSRD has passed – as we are not informed of any updates to the NSRD then we are both unable to know if the data has changed and are then subsequently raising PMD's for the data when it is not yet due.

This change was previously agreed at the BMRG and was pending the next consultation in the market to be implemented.

MSATS Procedures: MDM Procedures

Please delete any rows where there are no participant comments

<table>
<tr><th>Clause</th><th>Heading</th><th>Metering Competition</th></tr>
<tr><td>2.2</td><td>AEMO</td><td>
<table>
<tr><td>Red//LUMO Energy</td><td>2.2</td><td>AEMO</td><td>Marginal Loss Factors (MLFs) to be included in the glossary</td></tr>
</table>

Origin agrees with Red/Lumo that MLF meed to be included in the Glossary.

The purpose of the Glossary is defined as intent to ‘assist users …in understanding the overall framework.’ Would seem sensible to include definitions if requested by participants as this would meet the requirements of helping industry understand the terms.

Wouldn’t matter whether the term is used once or twenty times – if it helps provide clarity and is a term that is relevant then it should be included.
</td></tr>
</table>

5. MSATS Procedures: Procedure for the Management of WIGS NMIs

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition

6. NEM RoLR Process Part A and B – MSATS Procedure: RoLR Procedures

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition
3	Reports	**Figure 2 HIGH LEVEL ROLR PROCESS DIAGRAM** **Figure 3 HIGH LEVEL ROLR PROCESS TIMELINE** Both diagrams are blurred and need to be clear in the final document

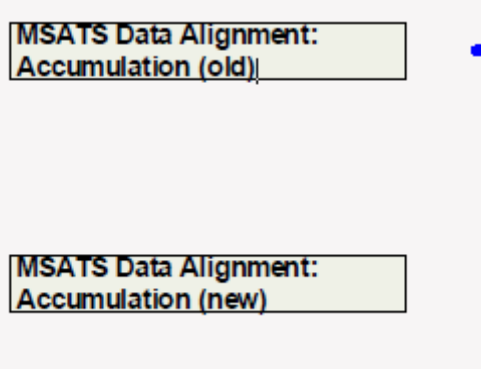
7. NMI Standing Data Schedule

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments		
		Metering Competition	Embedded Networks	Meter Replacement Processes

8. Service Level Procedures for MDP

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition
5.1	Meter churn scenarios	 Origins original response requested the titles to be updated to *MSATS and MDFF Data Alignment Accumulation* and the AEMO response was '*noted*' but no changes have been made in the diagram titles.

9. Service Level Procedures for MP

Please delete any rows where there are no participant comments

Clause	Heading	Metering Competition

10. Other Issues Related to Consultation Subject Matter

Document	Clause	Heading	Participant Comments
MSATS CATS			Consideration needs to be given to expanding the existing reports and Change Requests to additional participants as the needs are identified throughout the development of the Power of Choice work. One example is to make the C4 report available to a nominated MDP ahead of the work being completed instead of just after it is completed. This would facilitate the existing configuration to be reviewed ahead of a meter change rather than waiting for an issue to be identified post install – where the required information is readily available in the market and needs to be made available to additional participants

MSATS			The ability to identify a site which has been remotely disconnected or physically disconnected will be critical to ensure the correct process is followed to connect a customer. The separation of the NMI Status from the Meter Status to differentiate the disconnection method is the preferred approach. However there are additional consequences which need to be considered during this approach and cannot be agreed in isolation. 1 – Network billing. Networks currently stop passing on NUOS charges to a retailer when a site is disconnected and the NMI Status is updated to D. If this proposed process means that the meters will be remotely disconnected and the NMI stays as Active then there needs to be a clear agreement to understand in what circumstances network charges will continue to be incurred by the retail business. 2 – Where there are multiple meters at a site there may be an issue where all the meters cannot be remotely disconnected. NMI Discovery needs to be able to easily identify if all meters at a site have been remotely disconnected or if any are still connected.