FIVE MINUTE SETTLEMENT – METERING PROCEDURE CHANGES (PACKAGE 2)

PROCEDURE CONSULTATION

DRAFT DETERMINATION STAGE PARTICIPANT RESPONSE TEMPLATE

***Participant**: Origin Energy*

***Submission Date**: 2nd September 2019*

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1. Context

This template is being provided to assist stakeholders in giving feedback about the changes specified in the 'Five-Minute Settlement Metering Procedure Changes – Package 2' Draft Procedures.

Please note, the change marked versions of the Draft Procedures highlights the changes required between the first stage Initial Draft Procedures and the second stage Draft Procedures.

The changes being proposed seek to enable the implementation of:

- The Five-Minute Settlement (5MS) Rule
- The Global Settlement (GS) Rule
- Changes to the delivery, format and content contained in the meter data files sent to AEMO.

2. Metrology Procedure: Part A

Section	Description	Participant Comments
3.1	Requirements under National Measurement Act and Use of Standards	Noted
3.4	"x" values – Calculation and Use	Noted
12.3, 12.7	Provisions for non-contestable unmetered loads	Origin Energy notes that it may be appropriate to provide LNSP's with the flexibility to use the Type 7 model for some non-contestable unmetered

Section	Description	Participant Comments
		loads where deemed appropriate, and to use a standard single NMI to device model for other non-contestable unmetered loads. Origin Energy recommends that the procedures be drafted so that if a non-contestable unmetered load NMI contains different Unmetered Device types that have varying load profiles and network tariff rates then each load must be uniquely identifiable in MSATS. Uniqueness means taking into consideration the Device Type, the load profile of that device and the network tariff rate for the consumption from that device type so that the data aligns with the MSATS Standing data model. Only then will the load be fit for use by the B2M/B2M customer, service, metering, billing, reconciliation and settlements market processes as is used for other on market NMIs in MSATS. This is required as summation of data from these unmetered loads arbitrarily; 1) Causes distortion of UFE 2) Results in Disputes as the data is not reconcilable 3) Cannot be used to bill customers 4) Cannot be used to settle network charges 5) Cannot be used by market B2B and B2M processes

<table>
<tr><th>Section</th><th>Description</th><th>Participant Comments</th></tr>
<tr><td></td><td></td><td>
For example;

1) If NMI: x000000001 has 16 units of unmetered devices consisting of 1 device type (i.e. 16 x M125 Light Device) then each of these devices have the same load profile (eg. Flat) and Network tariff rate and must be represented in MSATS in a 1 NMI to 1 Device model as follows;
<table>
<tr><th>NMI</th><th>METER</th><th>Register ID</th><th>NTC</th><th>Suffix</th><th>Network Additional Information</th></tr>
<tr><td>x000000001</td><td>Meter 1</td><td>E1</td><td>M125</td><td>E1</td><td>10</td></tr>
</table>

2) If NMI: x000000002 has 6 units of unmetered devices consisting of 1 device type (i.e. 6 x M50 Light Device) then each of these devices have the same load profile (eg. Flat) and Network tariff rate and must be represented in MSATS in a 1 NMI to 1 Device model as follows;
<table>
<tr><th>NMI</th><th>METER</th><th>Register ID</th><th>NTC</th><th>Suffix</th><th>Network Additional Information</th></tr>
<tr><td>x000000002</td><td>Meter 1</td><td>E1</td><td>M50</td><td>E1</td><td>6</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Section</th><th>Description</th><th>Participant Comments</th></tr>
<tr><td></td><td></td><td>
3) If NMI: x000000003 has 32 units of unmetered devices consisting of 2 device type (i.e. 20 x M125 Light Device, 12 x M50 Light Device) and each of these device types have a different load profile (eg. Flat) and Network tariff rates then this must be represented in MSATS in a 1 NMI to Many Device model as follows;
<table>
<tr><th>NMI</th><th>METER</th><th>Register ID</th><th>NTC</th><th>Suffix</th><th>Network Additional Information</th></tr>
<tr><td>x000000003</td><td>Meter1</td><td>E1</td><td>M125</td><td>E1</td><td>20</td></tr>
<tr><td>x000000003</td><td>Meter2</td><td>E2</td><td>M50</td><td>E2</td><td>12</td></tr>
</table>
Notes:
1) The Network Additional Information field in the MSATS Meter Register table could be used to reflect the number of physical devices that are associated to the consumption from that Device/Register.
2) The NTC Description field in the MSATS CATS_NETWORKTARIFF_CODES table could be used to reflect the description of the NTC as well as the Type of Device it relates to.
</td></tr>
<tr><td>12.3</td><td>Metering Data Storage</td><td>Origin Energy suggest adding clauses 12.3 (c) as follows to ensure that for non-contestable unmetered sites, the customer details are also captured due to the nature, process and relationship of the LNSP with these non-contestable unmetered site customers.</td></tr>
</table>

Section	Description	Participant Comments
		12.3 (c) For non-contestable unmetered loads, the LNSP must also record the details of the customer.
12.7	Request for Test of Calculated Metering Data	Origin Energy suggest rewording 12.7.(c) as follows. as in its current form, it is unclear as to what is being compared. 12.7.(c) Where there is a discrepancy between the Inventory Table held in the metering data services database for a non-contestable unmetered load and the ~~calculation methodology and Agreed Load~~ Physical Inventory, the ~~calculation methodology and Agreed Load~~ Physical Inventory is to be taken as prima facie evidence of the actual number of Unmetered Devices as off the effective date of the discrepancy. We suggest that the Retailer is informed of any activities that impact the billing of the customer and is provided with required customer, device load and charge details. We also suggest that the Retailer is earmarked as an approver of any existing and new loads prior to them being setup and energised or prior to any modifications or abolishment being undertaken in the MDP's database and in MSATS. Given the above, Origin Energy suggest adding clause 12.7 (d) as follows to ensure that for non-contestable unmetered supply, there are minimal or no discrepancies as is the case for contestable metered supply, to avoid any adverse impacts on UFE.

Section	Description	Participant Comments
		12.7.(d) The MC must use all efforts to ensure that all the non-contestable unmetered supply load assets are identified and reflected in MSATS. Any changes to these assets must only be made with the prior approval of the MC, the Retailer and the Customer using existing B2B and related B2M processes/transactions. Further to the above, we also recommend that the creation, energisation, modification and abolishment of non-contestable unmetered supply sites are performed via existing B2B and related B2M processes/transactions and that a B2B Guide is developed and published to clarify applicability or modifications of existing B2B and B2M processes/sub process/transactions for these NCONUML and other new Installation Types. Refer to Appendix A which contains a table of B2B Transactions and Typical Participant combinations with applicability to new 5MS/GS Installation Types

3. Metrology Procedure: Part B

Section	Description	Participant Comments
12.3	Profile Area five-minute load profile calculation	Origin Energy agrees with the proposed calculations.
12.4	Applying the five-minute profile to 15-minute and 30-minute metering data for a Profile Area	Noted.
13.1.2	Non-contestable unmetered loads	Origin Energy suggest adding new clause 13.1.2(f) as follows to ensure that this data is provided in an agreed industry standard format, which we propose must be defined in a B2B Guide (along with other relevant 5MS/GS process impacts/guidance) to ensure clarity and consistency for impacted participants; "13.1.2(f) The MC must ensure that details of the calculation methodologies and Agreed Loads are provided when requested to relevant Registered Participants in an agreed industry standard format."
13.1.3	Unmetered Devices	Origin Energy suggest addition of new clause 13.1.3 (f) as given below in order to ensure LNSP's create non-contestable unmetered devices at the level of granularity to enable them to create devices and provide meter reads which facilitate the accurate generation of Network changes which can be used by Retailers and LNSP's to be able to service and bill customers and reconcile network charges accordingly in an end to end manner as per standard MSATS B2B

Section	Description	Participant Comments
		and B2M processes that are currently used to bill and reconcile other type of contestable sites" "13.1.3 (f) If a non-contestable unmetered load NMI contains different Unmetered Device types that have varying load profiles and network tariff rates then each load must be uniquely identifiable taking into consideration the Device Type, the load profile of that device and the network tariff rate for the consumption from that device type."
13.2.2	Inventory Table	Origin Energy suggest the following additions/changes to 13.2.2 as highlighted below; • Include new clause 13.2.2 (i.1) to include the actual Unmetered Device Load: "13.2.2 (xi) The Unmetered Device Load" • Include new clauses to 13.2.2 as given below to ensure that appropriately time sliced data is provided to Retailers to enable us to bill customers correctly especially when retrospective changes occur to the Unmetered Device Load and/or to the number of Unmetered Devices. "13.2.2 (vii.1) The Effective Start Date of number of such Unmetered Devices installed 13.2.2 (vii.2) The Effective End Date of number of such Unmetered Devices installed

Section	Description	Participant Comments
		13.2.2 (xi.1) The Effective Start Date of Unmetered Device Load of such Unmetered Devices installed 13.2.2 (xi.2) The Effective End Date of Unmetered Device Load of such Unmetered Devices installed 13.2.2 (xi.3) The End use Customer Details of such Unmetered Devices installed • Modify existing clause 3.2.2(f) as highlighted below to ensure that the data is provided in an agreed industry standard format, which we propose must be defined in a 5MS/GS B2B Guide (along with other relevant 5MS/GS process impacts/guidance) to ensure clarity and consistency for impacted participants; "13.2.2(f) The MC must provide the Inventory Table to relevant Registered Participants when requested in an agreed industry standard format." • Add new clause 3.2.2(g) as highlighted below to ensure that the data is published in MSATS. "13.2.2(g) The MC must ensure that MSATS is updated to reflect the details in the Inventory Table as soon as any material changes are identified"
Various	Inclusion of the word "affected"	Noted

4. MSATS Procedures: MDM Procedures

Section	Description	Participant Comments
3.2.15, 3.2.17	Unaccounted for energy (UFE)	Noted
5.2	MDP Obligations	Noted
6	LOAD DATA – INTERVAL NMI DATASTREAM	Noted
9.11- 9.14	MDM RM Reports	1) Can AEMO please confirm that the MDM RM43 – UFE Values by Profile Area report will include the following data fields? If not, can the 3 fields listed below be included in this report to assist Retailers in identifying Settlement Run Type and Settlement Period for the UFE? <FromDate>0001-09-23</FromDate> <ToDate>0001-09-30</ToDate> <SettlementRun>PRELIMINARY</SettlementRun> 2) Can AEMO please include the UFE Percentage for each Time Interval field in the MDM RM43 – UFE Values by Profile Area report as per details below to assist Retailers with consuming this data? UFE Percentage for each Time Interval (in S999.99999 format, where S is the sign) – The Percentage of Unaccounted for

		Energy for each time Interval allocated to the specified FRMP for the TNI and Profile area for each settlement run. 3) Can AEMO please include a definition and data format of any new fields being specified in the MDM procedures like UFE Time Intervals?

5. MSATS Procedures: CATS Procedure Principles and Obligations

Section	Description	Participant Comments		
2.3	Local Network Service Provider	Noted		
Various	Reference to NMI Procedures Appendix E	Refer to NMI Procedure. Noted		
4.4	Use of LR/ENLR within this Procedure	Noted		
4.10	NMI Classification Codes	BULK	*Connection point* where a *transmission network* connects to a *distribution network* - also termed 'Bulk Supply Point'	Noted
		NREG	*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*	Origin's suggests that the current wording is ambiguous and that the wording should be: "Connection point associated with a non-registered embedded generator, i.e. a

			Generation Aggregator as a *market generating unit*.	generating unit that is not classified as a Market Generator but may be classified as a Small Generation Aggregator as an off market generating unit." In addition, AEMO should provide the following additional clarification: "In order to be non-registered, the total output has to be < 5MW, or <30 and > 5MW." Origin has taken this position based on referring to the "GUIDE TO GENERATOR EXEMPTIONS" V3.1, Effective Date 20 November 2018, produced by AEMO in which the classification of generating units and the exemption from certain categories is detailed below: *"Exemption categories* *Exemptions from the requirement to register as a Generator may be granted based either on the characteristics of the generating system (nature, size, type and operation), or on the registration of an intermediary as the Generator, as follows:* *Standing exemptions are available to persons who own, operate or control a generating system with a nameplate rating of less than 5 MW when fully connected to a transmission or distribution system.*

				Applications for exemption may be made by persons who own, operate or control generating systems (other than those that include battery storage facilities) with a nameplate rating of at least 5 MW but less than 30 MW. *(c) Applications for exemption may be made by persons who own, operate or control generating systems with a nameplate rating over 30 MW:* *(i)if the purpose for which exemption is sought is the provision of unscheduled reserve in accordance with an unscheduled reserve contract; or* *(ii) for existing generating systems in exceptional circumstances at AEMO's absolute discretion.* *(d)Temporary notifiable exemptions may be available to persons who own, operate or control generating systems to which no other exemptions apply, during initial testing and commissioning where the aggregate nameplate rating of the connected generating units is less than 5 MW at any time.* *(e)Applications for exemption must be made by persons who own, operate or control a generating system, but have proposed an eligible person (an intermediary) to be registered as a Generator for that generating system on their behalf."* Origin notes that the guide has not been updated to cater for the NREG NMI classification and would request that AEMO does so.

		XBOUNDRY	Connection point where a distribution network connects to another distribution network	Origin supports the views presented in the notes from the XBoundary workshop held on 07/08:- 1. Scenario 4: HV feeder DB-DB cross boundary supplies to be metered by 01/07/2012 (once metered to go to scenario 3) 2. Scenario 4a: HV feeder DB-DB cross boundary supplies to be metered by 01/07/2012 3. Scenarios 4b, 5, 6 meter data to be provided to NSP (1) to allow accurate UFE calculation
4.12.2	Datastream Status Codes	Noted		
4.13.1	Consequences of Allocating Certain Metering Installation Codes	Noted		
5	MSATS REPORTS	Noted		
Various	References to LR and ENLR	Noted		

11, 13, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 39, 40	Inclusion of NCONUML	Origin Energy strongly recommends that AEMO create a B2B Guide to confirm/clarify the applicability and relationship of the B2B and B2M processes to ensure that all impacted participants' (e.g. LNSP's, Retailers, MC,MDP, NCONUML End use Customers {as they too need to be involved in following the new process for it to work}, etc.) are aware of their obligations to manage these new installation types especially the non-contestable unmetered loads in the market. This removes any avoidance of doubt with participants and will result in a positive outcome for all impacted market participants. The guide needs to define the applicability of other B2B Processes like Service Orders, Customer & Site Details, Meter Data, Network Settlements, etc. for the new Installation Types being defined as part 5MS/GS. The guide could be in the form of table of B2B Transaction with applicability to new 5MS/GS Installation Types as per Appendix A. Origin Energy requests that AEMO state within the procedures that the existing B2B Service Order and B2M CATS processes will apply to the New NMI Classification Code Types being created under 5MS/GS, especially the NCONUML code. Origin proposes that the following B2B and related B2M processes be extended to the new NMI Classification codes where applicable especially the NMI Classification of NCONUML: 1) Creation of new sites via the NEW CONNECTION B2B process that utilises the following B2M transactions; 11 CREATE NMI – CREATE A NMI – SMALL, OR LARGE OR NCONUML,

		13 CREATE NMI – CREATE NMI, METERING INSTALLATION DETAILS AND NMI DATASTREAM – SMALL, OR LARGE OR NCONUML, 15 MAINTAIN METERING – CREATE METERING INSTALLATION DETAILS – SMALL, OR LARGE OR NCONUML 2) Modification of existing sites via the ADDS & ALTS B2B process that utilises the following B2M transactions; 17 MAINTAIN METERING – EXCHANGE OF METERING INFORMATION – SMALL, OR LARGE OR NCONUML, 20 MAINTAIN METERING – CHANGE NETWORK TARIFF CODE – SMALL, OR LARGE OR NCONUML, 22. MAINTAIN DATASTREAM – EXCHANGE OF DATASTREAM INFORMATION SMALL, OR LARGE OR NCONUML, 23. MAINTAIN DATASTREAM – CHANGE NMI DATASTREAM – SMALL, OR LARGE OR NCONUML, 25. MAINTAIN NMI – BACKDATE A NMI – SMALL, OR LARGE OR NCONUML, 27. MAINTAIN NMI – CHANGE A NMI – CUSTOMER CLASSIFICATION CODE – SMALL, OR LARGE OR NCONUML, 30. CHANGE ROLE – CHANGE LNSP – SMALL OR LARGE OR NCONUML, 31. CHANGE ROLE – CHANGE MDP – SMALL, OR LARGE OR NCONUML, 32. CHANGE ROLE – CHANGE MC – SMALL OR LARGE OR NCONUML,

		39. AEMO ONLY – AEMO-INITIATED STANDING DATA UPDATES – SMALL, OR LARGE OR NCONUML 40. AEMO ONLY – CHANGE ROLE, TNI OR DLF CODE – BULK CHANGE TOOL (BCT) – SMALL, OR LARGE OR NCONUML 3) Abolishment of existing sites via the Abolishment B2B process that utilises the following B2M transaction; 26. MAINTAIN NMI – CHANGE A NMI – SMALL, OR LARGE OR NCONUML,
Various	Updated table references	Noted

6. MSATS Procedures: Procedure for the Management of Wholesale, Interconnector, Generator and Sample (WIGS) NMIs

Section	Description	Participant Comments
1.4	WIGS Codes and Rules for a Change Request	Noted
Various	Inclusion of “NREG” NMI Classification Code	See Comments under ‘Other’
Various	Inclusion of “BULK” NMI Classification Code	See Comments under ‘Other’

Various	Inclusion of “XBOUNDRY” NMI Classification Code	See Comments under ‘Other’
Various	Inclusion of “DWHOLSAL” NMI Classification Code	See Comments under ‘Other’
Various	Provisions for embedded network local retailers (ENLR)	Noted
Various	Removal of Local Retailer (LR) references	Noted
Other	2.2 (b) FRMP – 1000, 1020 The NMI Classification Code is WHOLESAL, INTERCON, GENERATR, NREG, or SAMPLE.	Origin Energy suggest inclusion of DWHOLESAL for these transactions
Other	Ref Sec 3.2(b) Child NMI – 1080, 1082 6.2(b) – Create NMI – Child NMI – 2020, 2021 18.2 (b) – Change NMI – Embedded Child – 5060, 5061	Origin Energy suggests consistency across all of the below transactions for embedded child for the new NMI “3.2(b) has The NMI Classification Code is WHOLESAL, NREG or GENERATR 6.2 (b) has The NMI Classification Code is WHOLESAL, INTERCON, GENERATR, NREG, BULK, XBOUNDRY, DWHOLSAL or SAMPLE. 18.2 (b) has The NMI Classification Code is WHOLESAL, NREG, DWHOLSAL OR GENERATR

	23.2 (b) Change ENLR – Child NMI – 6421 23.6 – Objection	23.2 (b) The NMI Classification Code is GENERATR, NREG, DWHOLSAL or WHOLESAL" 23.6 Origin suggests inclusion of WHOLESAL in this section
Other	25.2 (b) – Change MPB, MPC, both 6700, 6701	Origin Energy questions why the NMI classifications of NREG, BULK, XBOUNDARY, DWHOLESAL are excluded from this section considering they have been included in other metering related role transactions?

7. National Metering Identifier

Section	Description	Participant Comments
VRH	Effective date updated to 1 July 2021	Noted
2.4	Allocation of NMIs for non-contestable unmetered loads	In relation to clause 2.4, Origin Energy request AEMO to confirm how the Inventory Table for non-contestable unmetered load is expected to work together with the existing B2B and related B2M processes for New connections (i.e. Clause 2.4 (c)), Modifications - Add & Alts (i.e. Clause 2.4 (b) and Abolishment's (i.e. Clause 2.4 (d)) for the New Installation Types being created as part 5MS/GS, especially for NCONUML. Recommend AMEO create a B2B Guide to confirm/clarify the above mentioned processes to ensure that all impacted participants' (e.g. LNSP's, Retailers, MC,MDP, NCONUML Customers {as they too need to be involved in following the new process for it to work}, etc.) are aware of their obligations and which also defines the applicability

		of other B2B Processes like Meter Data, Network Settlements, etc. for the new Installation Types being defined as part 5MS/GS.
6	Changes to DATASTREAM SUFFIX	Noted

A.19, A.20	Non-Contestable Unmetered Load – One NMI With Multiple Devices	Origin proposes that under section A.19 Non Contestable Unmetered Load – One NMI With Multiple Devices should be expanded to contain 2 scenarios as given below, which illustrate Origin Energy's feedback that non-contestable unmetered devices must be ideally be set up in MSATS keeping in mind the load profile of the device and the Network Tariff rate at a minimum (in addition to other conditions like TNI,DLF,FRMP and Customer) as follows;
		
		A.19.1 Non Contestable Unmetered Load – One NMI With Multiple Devices
		
		• Multiple non contestable unmetered connections, multiple market connection points
		• All devices are supplied from a single transmission node
		• Each device has a unique profile load and **network tariff rate** associated to it and hence the register ids cannot be consolidated.
		• All devices have the same TNI, DLF, FRMP and LNSP for a given customer
		• Three End Users
		• Three NMI's
		• Allocated NMIs:
		  ○ 5555666601
		  ○ 5555666602
		  ○ 5555666603
		• Identity of individual interrogated metering data: should be as follows:
		  ○ 5555666601E1

		○ 5555666602E1 ○ 5555666603E1 ○ 5555666603E2 ○ 5555666603E3

8. NEM RoLR Processes – Part A

Section	Description	Participant Comments
Various	Removal of first and/or second tier references	Noted
Various	Provisions for ENLR	Noted

9. Service Level Procedure: Metering Data Provider Services

Section	Description	Participant Comments
2.4	Specific obligations for MDP - Category D	Noted
3.7	Metering Data Processing Requirements	Noted
3.10.2	Non-contestable Unmetered Load Calculation Methodologies and Agreed Loads	Noted
3.12.4	Delivery of Settlements Ready Data	Noted

3.12.5	Method of Delivery of Data	Noted
5	METER CHURN DATA MANAGEMENT	Noted

10. Exemption Procedure: Metering Installation Data Storage Requirements

Section	Description	Participant Comments
1.1	Purpose and scope	Noted
1.2	Definitions and interpretation	Noted
2	APPLICATION PROCESS	Noted

11. Retail Electricity Market Glossary and Framework

Section	Description	Participant Comments
2.7.7	Exemptions	Noted
5	GLOSSARY	Origin Energy notes that the Definition against the NMI Classification Code has an incorrect reference in the CATS procedure; latest version has details against cl 4.10, not 4.9. Origin Energy questions whether the Glossary be updated to include terms and definitions for:- BULK

		DWHOLESALE NGER SAMPLE WHOLESAL XBOUNDARY

12. Appendix A - Table of B2B Transactions and Typical Participant combinations with applicability to new 5MS/GS Installation Types

B2B Procedure	Transaction Type	Sub Type	Purpose	Initiator/s	Recipient	Notified Parties	Applies to all new NMI Classification codes
Service Orders	Supply Service Works	Allocate NMI	The first step in a new connection process	RB	DB/ENM	X	Yes
Service Orders	Supply Service Works	Establish Permanent Supply	Establish supply - Part of overall new connections process. This service order is not required in NSW whilst the Accredited Service Provider Scheme is in operation for service works.	RB	DB	MDP / MP / MC	Yes
Service Orders	Supply Service Works	Establish Temporary Supply	Establish supply - Part of overall new connections process. This service order is not required in NSW whilst the Accredited Service Provider Scheme is in operation for service works.	RB	DB	MDP / MP / MC	Yes
Service Orders	Supply Service Works	Establish Temporary in Permanent	Establish supply - Part of overall new connections process. This service order is not required in NSW whilst the Accredited Service Provider Scheme is in operation for service works.	RB	DB	MDP / MP / MC	Yes
Service Orders	Supply Service Works	Supply Abolishment	Abolish supply	RB	DB	MDP / MP / MC	Yes
Service Orders	Supply Service Works	Supply Alteration	Alter the supply (eg upgrade service to multi- phase / move). This service order is not required in NSW whilst the Accredited Service Provider Scheme is in operation for service works.	RB	DB	MDP / MP / MC	Yes
Service Orders	Supply Service Works	Tariff Change	A request from a retailer to change a customer's network tariff	RB	DB	X	Yes
Service Orders	Supply Service Works	Temporary Isolation	Temporary supply Isolation to facilitate 3rd party metering works or other. This service order is not required in NSW whilst the Accredited Service Provider Scheme is in operation for service works.	RB	DB	MDP / MP / MC	Yes

B2B Procedure	Transaction Type	Sub Type	Purpose	Initiator/s	Recipient	Notified Parties	Applies to all new NMI Classification codes
Service Orders	Supply Service Works	Temporary Isolation – Group Metering	Tempory supply isolation where multiple NMI's are connected to one supply point.	RB	DB	MDP / MP / [MC]	Yes
Service Orders	Metering Service Works	Change Timeswitch Settings	Change the timeswitch settings.	RB	DB	MP / MC	Yes
Service Orders	Metering Service Works	Exchange Meter	Swap an existing meter or meter installation to a new one	RB or MC	MP	DB / MDP	Yes
Service Orders	Metering Service Works	Install Controlled Load	Install or set up Controlled Load devices, including hot water	RB or MC	MP or DB	DB / MDP / MC	Yes
Service Orders	Metering Service Works	Install Meter	Install one or more meters or metering installations	RB or MC	MP	DB / MDP / MC	Yes
Service Orders	Metering Service Works	Move Meter	Move the location of a meter	RB or MC	MP (or DB for Type 5/6)	MDP / DB / MC	Yes
Service Orders	Metering Service Works	Remove Meter	The removal of one or more *meters* is required. The removal of redundant *meters*. A Remove Meter used to remove the last meter on site should be accompanied with a Supply Abolishment sent to the DNSP.	RB or MC	MP (or DB for Type 5/6)	DB / MDP / MC	Yes
Service Orders	Metering Service Works	Meter Investigation – Inspect	Inspect meter and report	RB or MC	MP (or DB for Type 5/6)	MDP / MC	Yes
Service Orders	Metering Service Works	Meter Investigation - Meter Test	Perform meter test	RB or MC	MP (or DB for Type 5/6)	MDP / MC	Yes
Service Orders	Metering Service Works	Reseal Device	Device seal is missing and requires replacement	RB or MC	MP (or DB for Type 5/6)	MDP / MC	Yes
Service Orders	Metering Service Works	Meter Reconfiguration	Reconfigure meter (eg Remotely re-program)	RB or MC	MP (or DB for Type 5/6)	MDP / MC	Yes
Service Orders	Re-energisation	After Disconnection for Non payment	Re-Energise the customer after a disconnection for Non-payment	RB	DB or MP or MC	MDP / DB / MP / MC	Yes
Service Orders	Re-energisation	Remote	Re-Energise the customer via Remote communication with the meter	RB	DB (VIC) or MP or MC	MDP / DB / MP / MC	Yes
Service Orders	Re-energisation	Retrospective Move-in	When a move-in reading is required for an already Energised Site.	RB	DB or MP	MDP / DB /MP / MC	Yes
Service Orders	Re-energisation	New Reading Required	Re-Energise the customer via a site visit. If the site is already energised then collect a Reading	RB	DB or MP	MDP / DB / MP / MC	Yes
Service Orders	Re-energisation	Physical visit	Re-Energise the customer via a site visit	RB	DB or MP	MDP / DB / MP / MC	Yes

B2B Procedure	Transaction Type	Sub Type	Purpose	Initiator/s	Recipient	Notified Parties	Applies to all new NMI Classification codes
Service Orders	Re-energisation	Recipient Discretion	Re-Energise the customer using recipients standard business process	RB	DB or MP or MC	MDP / DB / MP / MC	Yes
Service Orders	De-energisation	Pillar Box Pit Or Pole-Top	De-Energise the customer at a point upstream of the point of attachment	RB	DB	MDP / MP / MC	Yes
Service Orders	De-energisation	Remove Fuse	De-Energise the customer via removal of the service fuse	RB	DB	MDP / MP / MC	Yes
Service Orders	De-energisation	Remote	De-Energise the customer using remote means	RB or MC	DB (VIC),MP or MC	MDP / DB / MC	No
Service Orders	De-energisation	Local Meter Disconnection	De-Energise the customer through local operation of in-built meter contactor	RB	DB/(VIC) / MP	MDP / DB / MP / MC	Yes
Service Orders	De-energisation	Recipient Discretion	De-Energise the customer via a method chosen by the service provider	RB or MC	DB or MP or MC	MDP / DB / MP / MC	Yes
Service Orders	Special Read	Check Read	Obtain a meter reading	RB	MDP (or DB for Type 5/6)	X	Yes
Service Orders	Special Read	Final Read	Obtain a meter reading	RB	MDP (or DB for Type 5/6)	X	Yes
Service Orders	Special Read	No Sub Type	Can be used when a Retailer requires a transfer on a special read.	RB	MDP (or DB for Type 5/6)	X	Yes
Service Orders	Miscellaneous Services	No Sub Type - Ignore if populated	An ad-hoc service request	Any	Any	Any	Yes
Customer and Site Details Notification	Customer Details Request	No Sub type	Request from a DNSP or an MP to a Retailer to supply the Customer and Life-support details	DB or MP or MC	RB	X	Yes
Customer and Site Details Notification	Customer Details Notification	No Sub type	Customer and Life support details issued to DNSP or MP after update or on request	RB	DB or MP or MC	X	Yes
Customer and Site Details Notification	Site Access Request	No Sub type	Request from a Retailer to obtain a copy of the Site access and hazard information.	RB or MP or DB or MC	RB or MP or DB or MC	X	Yes
Customer and Site Details Notification	Site Access Notification	No Sub type	Publication of Site access and hazard information. Typically this is from a Retailer to a DNSP or MP whenever the data changes, but can also be from a DB or MP to a Retailer based on receiving a site access request	RB or DB or MP or MC	DB & MP or RB or MC	X	Yes
One Way Notifications	Notice of Metering Works	No Sub type	Informs the DNSP about the details of a recently completed metering works	MP or MC	DB	X	No

B2B Procedure	Transaction Type	Sub Type	Purpose	Initiator/s	Recipient	Notified Parties	Applies to all new NMI Classification codes
One Way Notifications	Meter Fault and Issue Notification	No Sub type	Informs a retailer about a meter fault. Can be from an MP, MC or a DNSP in the case of Type 5 and 6 meters.	MP or DB or MC	RB	X	No
One Way Notifications	Planned Interruption Notification	No Sub type	Informs a DNSP about planned interruptions on the network	RB or MC	DB	X	No
One Way Notifications	Network Tariff Notification	No Sub type	Informs a Retailer about an intent to change network tariffs	DB	RB	X	No
One Way Notifications	Meter Exchange Notification	No Sub type	A transaction to support forward planning of bulk meter rollouts.	RB or MP or MC	Any	X	No
One Way Notifications	Notified Party	No Sub Type	A special purpose transaction used to inform Notified parties of the state of a service order process	RB or MC	Any	X	Yes
Meter Data Process	Provide Meter Data	No Sub type	Request to provide meter data	RB or DB or MDP	MDP	X	Yes
Meter Data Process	Verify Meter Data	No Sub type	Request to verify meter data	RB or DB or New MDP	MDP / old MDP	X	Yes
Meter Data Process	Meter Data Notification	No Sub type	Provision / delivery of meter data to market participants	MDP	RB or DB or MDP or MC	X	Yes
Meter Data Process	Remote Service Request	No Sub type	Request to invoke a remote services function. Directed to a remote meter via Service provider	DB or RB or MC	MP or MC	X	No
Meter Data Process	Remote Service Response	No Sub type	Provision of meter status and electrical measurements and events from a remote meter	MP or MC	DB or RB or MC	X	No
Network Billing Process	Network Invoice Notification	No Sub type	Network Invoices to Retailer	DB	RB	X	Yes
Network Billing Process	Dispute Notification	No Sub type	Network Charge dispute notification sent to LNSP.	RB	DB	X	Yes
Network Billing Process	Dispute Response	No Sub type	Dispute Status Change Advice	DB	RB	X	Yes
Network Billing Process	Remittance Notification	No Sub type	Remittance to DB	RB	DB	X	Yes
Network Billing Process	Credit Notification	No Sub type	Credit Balance Invoice Advice	RB	DB	X	Yes
Network Billing Process	Remind Notification	No Sub type	Outstanding Invoice Advice	DB	RB	X	Yes