METERING COMPETITION
EMBEDDED NETWORKS
METER REPLACEMENT PROCESSES

POC PROCEDURES CONSULTATION (PACKAGE 2)

SECOND STAGE PARTICIPANT RESPONSE TEMPLATE

***Participant**: ActewAGL Distribution*

***Completion Date**: 16 January 2017*

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1. Glossary and Framework

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
2.1	The Role of the Retail Market in the NEM	
2.2	Structure of Retail Electricity Market Procedures	
2.3	Metrology Procedure	In some sections e.g. 2.5.5 the word 'published' is not in italics and in other sections it is – If it is meant to be a definition then it should be included in that section and formatted accordingly. Otherwise it should be in normal text.. Italics for published is unnecessary. The words 'Unmetered Load Guideline' should be in italics as it is a referenced document. Examples:

		2.3 The metrology procedure is made in accordance with clauses 7.16.3, 7.16.4 and 7.16.5 of the NER and it is *published* in two parts 2.3.2 The document is *published* separately as the Unmetered Load Guideline and is not subject to consultation under the NER. Difficult to understand paragraph in 2.3.2 One of the matters contemplated by Metrology Procedure: Part B is the process by which the Load Table might be updated. This essentially covers the inclusion of Unmetered Devices, predominantly street lighting, for the purposes of accounting for their electricity consumption in the calculation of the quantity of electricity used by End Users.
2.4	B2B Procedures	The following list of documents should also reference the B2B Guide. Will there still be a Technical Guidelines for B2B Procedures and a Technical Delivery Specification? – our understanding is that there will only be Technical Delivery Specification. *B2B Procedures* are developed and *published* in accordance with clause 7.17.2(i) of the NER. They are made up of a number of documents (as permitted by clause 7.17.4(g) of the NER), as follows: - B2B Procedure: Technical Guidelines for B2B Procedures - B2B Procedure: Customer and Site Details Notification Process - B2B Procedure: Meter Data Process

		☐ B2B Procedure: Service Order Process ☐ B2B Procedure: Technical Delivery Specification ☐ B2B Procedure: RoLR Process ☐ B2B Procedure: One Way Notification Process.
2.5	Metrology Procedures	
2.6	Qualification Procedure	
2.7	Metering Service Level Procedures	
2.8	Service Level Procedure - Embedded Network Managers	
2.9	Default & Deregistration Procedure	
2.10	Exemptions	
2.11	MSATS Codes	In the following paragraph, the t is missing from the word relevant **2.11.2 Use of LNSP to refer to ENM** The acronym 'LNSP' is used as defined in section 3 and as a code in MSATS to refer to the defined term. In most cases where the MSATS code 'LNSP' is used it means the LNSP as defined in section 3, however, where it is used in the context of an *embedded network*, the same code will be used to refer to relevant ENM. The term 'ENM' is used in the Retail Electricity Market Procedures to identify the *Embedded Network Manager*. There is no 'ENM' code in MSATS. **2.11.2 Use of LNSP to refer to ENM**

		The acronym 'LNSP' is used as defined in section 3 and as a code in MSATS to refer to the defined term. In most cases where the MSATS code 'LNSP' is used it means the LNSP as defined in section 3, however, where it is used in the context of an *embedded network*, the same code will be used to refer to relevant ENM.
3.	Glossary – Category A	If this definition is correct, no individual business can independently seek accreditation to install only, after 1 Dec 17.
3.	Glossary – CATS Procedures	
3.	Glossary – Current	Section 4.3 of what?
3.	Glossary – Historical data	
3.	Glossary – MarketNet	
3.	Glossary –New	Section 4.3 of what?

2. Default & Deregistration Procedure (MP, MDP, ENM, MC)

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Clause	Heading	Participant Comments
1	Introduction	

1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
2	BREACH OF THE NER OR PROCEDURES UNDER THE NER	
3	DEFAULT PROCESS	
3.1	Issue of Breach Notice	
3.2	Review of Capability for Ongoing Compliance	Reword second paragraph as not well worded under 3.2 Suggestion: AEMO may take the matters described in section 3.2 into consideration when conducting the Review.
3.3	Determination of Type of Breach	Reword second paragraph as not well worded under 3.3 Suggestion: There are three Breach types listed in section 3.3.
3.4	AEMO action following Review	
4	EXERCISE OF AEMO DISCRETION	
4.1	Relevant Considerations	
4.2	Constraints	

5	CONSEQUENCES OF AEMO DISCRETION	
5.1	MP, MDP or ENM	
5.2	MC	
5.3	Other Impacts	
6	VOLUNTARY DEREGISTRATION	
6.1	Application	
6.2	Process	
Appendix A.	NOTICE OF BREACH	
Appendix B.	METERING COORDINATOR DEFAULT NOTICE	
Appendix C.	NOTICE TO APPOINTERS	
Appendix D.	OUTCOME OF REVIEW	
Appendix E.	NOTICE TO AFFECTED PARTIES	

3. Exemption Procedure (Metering Installation Malfunctions)

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments
	General	Page 3 Footer - Doc Ref: Error! No text of specified style in document.
1	Introduction	
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
2	Application process	
2.1	Applicant	
2.2	Timing of Application	
2.3	AEMO's Determination	
2.4	Matters taken into Consideration	
2.5	Grant of Exemption	

2.6	Application Unsuccessful	
2.7	Extension to Exemption	
2.8	Current MC's Obligations during the Exemption Period	
2.9	Expiry of Exemption	
3	Rectification Plan	
3.1	Timing	
3.2	Contents	
Appendix A.	APPLICATION FOR EXEMPTION	
Appendix B.	APPLICATION FOR EXTENSION	

4. MSATS Procedures: National Metering Identifier

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments
	Version History	
1	INTRODUCTION	
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
2	ALLOCATION AND ISSUE OF NMIS	
2.1	NMI Allocation by AEMO	
2.2	Issue of NMIs by LNSPs and ENMs	
3	NMI STRUCTURE	
4	NMI REGISTERS	
5	NMI CHECKSUM	

6	DATASTREAM SUFFIX	
7	DATASTREAM SUFFIX FOR INTERVAL METERING DATA	
7.1	Datastream Suffix for Accumulated Metering Data	
7.2	Wholesale Connection Points	
8	CONNECTION POINTS WITH CHECK METERING	
9	NMI RULES	
9.1	NMI Allocation and Verification	
9.2	NMI Decommissioning	
10	UTILISATION OF NMI FOR AEMO DATA	
10.1	Data Delivery to AEMO (MSATS System)	
11	EXAMPLES OF NMI APPLICATION – INTERVAL METERING DATA	
11.1	One End User metered on the secondary side of transformer	
11.2	One End User, multiple metered on the secondary side of transformer	

11.3	One End User, previously two tariff metering, e.g. general supply & off-peak on secondary side of transformer	
11.4	One End User, two controlled loads, one twin element meter	
11.5	One End User, two twin element meters	
11.6	One End User, multiple meters on secondary side of multiple transformers in the same substation building and LV switchboard in common switchroom	
11.7	Three End Users, metered on secondary side of multiple transformers in the same substation building	
11.8	One End User, two separate HV supplies to two separate substations, both metered on secondary side of the transformers	
11.9	One End User, two separate substations adjacent to each other or one single substation with two separate transformers in a single substation, with a “normally open” point separating the HV supplies into two sources	
11.10	One End User, two separate substations adjacent to each other or one single substation	

	with two separate transformers, with the HV supply originating from a single source	
11.11	One End User, two separate substations not adjacent to each other but on same premises	
11.12	Multiple End Users, High rise building	
11.13	One End User with multiple supply points	
11.14	One End User with Standby Supply	
11.15	One End User or Participant, Wholesale Metering at Transmission Node	
11.16	One End User or Participant, Wholesale Metering at Transmission Node	
11.17	One End User, Wholesale Metering at Transmission Node	
11.18	Street Lighting (Type 7 Metering Installation)	
12	EXAMPLES OF NMI APPLICATION – ACCUMULATED ENERGY DATA	
12.1	Single Meter with Single Datastream	
12.2	Two Meters each with Single Datastream	

12.3	Two Meter Installation, One Meter Recording Consumption for a Controlled Load	
12.4	Three Datastream, One Meter with Single Measurement Element	
12.5	Multi-function Meter	
12.6	Two Multi-function Meters	
13	ENERGY DIRECTION FLOWS	
14	ALLOCATION OF NMIS FOR TYPE 7 METERING INSTALLATIONS	
14.1	Common Requirements across the NEM	
APPENDIX A	SAMPLE JAVA CODE FOR NMI CHECKSUM	
APPENDIX B	EXAMPLES	

5. Qualification Procedure

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Clause	Heading	Participant Comments
	General	Page 2 - Doc Ref: Error! No text of specified style in document
1	Introduction	
1.1.	Purpose and Scope	
1.2.	Definitions and Interpretation	
1.3.	Related AEMO Documents	
2	Preparation	
2.1.	Mandatory Requirement	
2.2.	Pre-Reading	Would be useful to have website links to all the pre-reading documents in addition to the name of the pre reading document. Will this document need to go out for consultation again if the B2B procedures are incorrect? or since only a reference, can just get updated?
2.3.	Pre-Application Meetings	

3	Qualification Process	
3.1.	Application	
3.2.	Accreditation Checklists	Link still to be defined [*link*]3
3.3.	Application Fees	Is it correct to assume 30 days is referring to 30 calendar days? If the applicant is overdue in paying an invoice by more than 30 *days*, AEMO will suspend all assessments until payment is made.
3.4.	Queuing Policy	
3.5.	Pre-Production Assessment	
3.6.	Independent Review	
3.7.	Final Accreditation Review	
3.8.	Completion of Review	Reference to this section 3.9 – update to 3.8 as no section 3.9. **3.8. Completion of Review** At the conclusion of AEMO's review of an application, there will be one of two outcomes: The application is successful (with or without conditions). The application is not successful. The remainder of this section 3.9 considers these two outcomes.
4	Maintenance of Accreditation and Registration	

5	Re-accreditation and Registration	
Appendix A.	APPLICATION FORM	

6. Service Level Procedure – Embedded Network Manager

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Clause	Heading	Participant Comments
1	INTRODUCTION	
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	http://www.aemo.com.au/About-the-Industry/Information-Systems/aseXML-Standards The above link goes to an archived page and the subsequent links on the page don't allow drill down to aseXML Standards Working Group, Guidelines, Schemas, Sample Files, Change Process, White Papers etc.

		AEMO ELECTRICITY GAS AEMO ASEXML STANDARDS SHARE THIS PAGE AEMO ASEXML STANDARDS This is an archived page Back to previous page aseXML is a standard developed by Australian energy industries to facilitate the exchange of information between participants of the energy industries using XML. The aseXML Standards Working Group (ASWG) is responsible for the development and maintenance of the aseXML standard. • aseXML Standards Working Group • Guidelines • Schemas • Sample Files • Change Pocess • White Papers
2	OBLIGATIONS	
2.1	Embedded Network Management Services	
2.1.1	The Services	
2.1.2	Additional obligations	

2.2	Use of Sub-Contractors	
2.3	Insurance	
3	SYSTEMS AND ADMINISTRATION	
3.1	Systems and Interface Requirements	
3.2	Embedded Network Information	
3.3	Audits Undertaken by AEMO	
3.3.1	ENM to Assist	
3.3.2	Timing of Audits	
3.3.3	Notice of Audit	
3.4	Other Audits	
3.5	Review of Accreditation	
3.6	Disputes	
4	MARKET INTERFACE FUNCTIONS	

4.1	NMI Allocation	
4.2	Distribution Loss Factors and Transmission Node Identity	
4.2.1	Overview	
4.2.2	Site specific DLF	
4.2.3	Small load DLF	
4.2.4	TNI	
4.3	MSATS Setup	
4.3.1	Market Exit	
4.3.2	Resumption as Child Connection Point	
4.3.3	Network Tariff Code Update	
4.3.4	De-energisation and Re-energisation of Child NMIs	
4.3.5	Child NMI Abolishment	
5	DELIVERY OF INFORMATION UPON DEREGISTRATION	

7. Unmetered Load Guideline

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Clause	Heading	Participant Comments
1	INTRODUCTION	
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
2	APPLICATION PROCESS	
2.1	The process	
2.2	The Outcome	
3	DISCLAIMER	
4	MATERIAL TO SUPPORT APPLICATION	
4.1	Generally	

4.2	Determination of a Single Unmetered Device Load Value for Controlled Unmetered Devices	
4.3	Determination of Annual Energy Consumption for Uncontrolled Unmetered Devices	
4.4	Load value	
4.5	Control Equipment	
4.6	Sampling for LED devices	

8. Other Issues Related to Consultation Subject Matter

Document	Clause	Heading	Participant Comments