METERING COMPETITION
EMBEDDED NETWORKS
METER REPLACEMENT PROCESSES

POC PROCEDURES CONSULTATION (PACKAGE 2)

SECOND STAGE PARTICIPANT RESPONSE TEMPLATE

Participant: *Energy Intelligence*

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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 Market in the NEM	
2.2	Structure of Retail Electricity Market Procedures	
2.3	Metrology Procedure	
2.4	B2B Procedures	
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	
3	Glossary	

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	
3.3	Determination of Type of Breach	
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
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
	General Comments	Can ENOs choose to move from one ENM to another? If Yes, What is the procedure for the same? How is the history of ENMs maintained in MSATS , as the LNSP Id for a child NMI will have to be updated in this scenario?
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

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments
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	
2.3.	Pre-Application Meetings	In the best interests of new applicants, Any contact details/ email Id or contact no of the relevant department dealing with the application process can be added. This will be useful for the applicants to arrange for a pre-application meeting.
3	Qualification Process	

3.1.	Application	
3.2.	Accreditation Checklists	
3.3.	Application Fees	
3.4.	Queuing Policy	
3.5.	Pre-Production Assessment	
3.6.	Independent Review	
3.7.	Final Accreditation Review	
3.8.	Completion of Review	
4	Maintenance of Accreditation and Registration	
5	Re-accreditation and Registration	
Appendix A.	APPLICATION FORM	

6. Service Level Procedure – Embedded Network Manager

Please delete any rows where there are no participant comments

Clause	Heading	Participant Comments
1	INTRODUCTION	
1.1	Purpose and Scope	
1.2	Definitions and Interpretation	
1.3	Related AEMO Documents	
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	Can AEMO include a high level Audit process in the document?
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